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<210> 4049

<211> 1437

<212> DNA

<213> Enterobacter cloacae

<400> 4049

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<210> 4050

<211> 1515

<212> DNA

<213> Enterobacter cloacae

<400> 4050

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<210> 4051

<211> 1395

<212> DNA

<213> Enterobacter cloacae

<400> 4051

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<210> 4052

<211> 938

<212> DNA

<213> Enterobacter cloacae

<400> 4052

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aagatcttac	tgaaaaaccg	cgagctgagc	gcgtttctcg	ccattctggc	gctgttcgcc	180
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<210> 4053

<211> 774

<212> DNA

<213> Enterobacter cloacae

<400> 4053

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<210> 4054

<211> 912

<212> DNA

<213> Enterobacter cloacae

<400> 4054

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<210> 4055

<211> 933

<212> DNA

<213> Enterobacter cloacae

<400> 4055

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<210> 4056

<211> 1029

<212> DNA

<213> Enterobacter cloacae

<400> 4056

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<210> 4057

<211> 1509

<212> DNA

<213> Enterobacter cloacae

<400> 4057

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<210> 4058

<211> 1575

<212> DNA

<213> Enterobacter cloacae

<400> 4058

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<211> 813

<212> DNA

<213> Enterobacter cloacae

<400> 4059

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 <212> DNA
 <213> Enterobacter cloacae

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 <211> 2307
 <212> DNA

<213> Enterobacter cloacae

<400> 4062

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<211> 1398

<212> DNA

<213> Enterobacter cloacae

<400> 4063

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<211> 972

<212> DNA

<213> Enterobacter cloacae

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<211> 1611

<212> DNA

<213> Enterobacter cloacae

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<211> 1005

<212> DNA

<213> Enterobacter cloacae

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<211> 1245

<212> DNA

<213> Enterobacter cloacae

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<210> 4068
 <211> 1347
 <212> DNA
 <213> Enterobacter cloacae

<400> 4068
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<210> 4069
 <211> 414
 <212> DNA
 <213> Enterobacter cloacae

<400> 4069
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 caagacctgc aagaagcgaa agagaaaggt gatgcggaaa aaattgccaa gcgcgagagg 360
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<210> 4070
 <211> 300
 <212> DNA
 <213> Enterobacter cloacae

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<210> 4071
 <211> 717
 <212> DNA
 <213> Enterobacter cloacae

<400> 4071
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ggttacgctt cactgcgtgt attgaatcag gaagtgcctg ccccgggcgc gtccttccag 180
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<210> 4072

<211> 1575

<212> DNA

<213> Enterobacter cloacae

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<210> 4073

<211> 1326

<212> DNA

<213> Enterobacter cloacae

<400> 4073
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cagtacagca	aagtctcgga	tgggtgctctc	agctccacac	cacgggaact	catcctcgac	1260
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<210> 4074

<211> 942

<212> DNA

<213> Enterobacter cloacae

<400> 4074

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aaactgcaaa	ccgatgtgat	cgacaaaactg	atgcccgcct	ttctgccact	ggtctacacc	840
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<210> 4075

<211> 1050

<212> DNA

<213> Enterobacter cloacae

<400> 4075

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gogatttatg	ccgactgaa	aggtcgccgt	attaatggcc	tggtgacgga	agagacgaca	1020
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<210> 4076

<211> 2064

<212> DNA

<213> Enterobacter cloacae

<400> 4076

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<210> 4077

<211> 519

<212> DNA

<213> Enterobacter cloacae

<400> 4077

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519

<210> 4078

<211> 471

<212> DNA

<213> Enterobacter cloacae

<400> 4078

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<210> 4079

<211> 414

<212> DNA

<213> Enterobacter cloacae

<400> 4079

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actcagcagt	atatggaagc	gatgggcgtg	ccgggggttc	tgctgccact	gaccattctg	180
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gtgaactccc	tgatgttcat	gaaaaacctg	accatcgccg	gtggcttctt	gctgctggct	360
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<210> 4080

<211> 1059

<212> DNA

<213> Enterobacter cloacae

<400> 4080

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aaatccaccg	gtggacgctt	taagcgctct	gtttcggcct	tccgtaactg	gctgaccgcc	180
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gagaaaattg	acgagctgaa	cggctggatc	tacgacaacg	tcaacaacgg	cgtctataaa	660
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ttccgcagtc	ataagaccat	caacccaacg	ggcattatct	ccattggccc	gtggcaggac	1020
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<210> 4081

<211> 489

<212> DNA

<213> Enterobacter cloacae

<400> 4081
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gacgaggttg cagacgatcc ggttcagcaa aacctgatgg agatgggtgct tgcggaaggc 180
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attgccaaaa cggatatctgt agacgcgaac gatatgccg cgtttaacgg cctgaaggcg 420
gccggagtgg aatgcttcgt tcagggcggt ccaacagaga ctgctttgga tctctttaa 480
ctgctctga 489

<210> 4082

<211> 1176

<212> DNA

<213> Enterobacter cloacae

<400> 4082
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ggcgatcatca ccgccatcga gccgattccg gcaggggtta acaccgcga ggcagacctg 180
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<210> 4083

<211> 1146

<212> DNA

<213> Enterobacter cloacae

<400> 4083
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tttctgacgc cactgttgcg caagcccgat ctgcggatcg ttctgaccgg cgcgggtacg 180
tctgctttta tcggcgacat cattgcgcca tggcttgcca gccacacgag aaaaaatata 240
accgcgatac ctacgaccga tctggtcacc aaccgatgg attacttcag cctgcgcac 300
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ggcagcctgt atcagaatgc cgtcgacagc gataacgcct gcgctctgct catgccagcc 480
gaaacgcacg atcgcggtt cgcgatgaca agcagcatca ccaccatgat ggcgagctgc 540
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gcttaa 1146

<210> 4084
<211> 885
<212> DNA
<213> Enterobacter cloacae

<220>
<221> unsure
<222> (613)

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gtctgtagcg aaatgcgacg gccggtgacg ctgcgaggta cgccggggac gtttaaacaat 180
attgcgctgg aagagattta cgccttgtgc agcgcgtatt cccttactta tgacatgccg 240
ctggcgctac acctcgatca ccacgaatcg ctggacgaca ttgcgcgcaa agtccatgcc 300
ggcgtagcta gcgcaatgat cgacggtagc cattaccctt tcgaacaaaa cgtcaagctg 360
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cgactgggtg gggtggaaga tgacatgagc gtgcacgccc aaagcgcggt cctgaccgac 480
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cgcttctaca tgcgcgtcgg catggatgcc atgaaaaggg tggtcagaag caaaatcacc 840
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<210> 4085
<211> 546
<212> DNA
<213> Enterobacter cloacae

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acgtttatgt tcccggtctc gctggtggcc tttatgggtg tgttgtagg tatcggtagt 180
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cagcttgccg acgcgcgccac catgagacag gtgggacaat ccacgtgct tggattcaa 480
acgctggaga tgggcgtgct cggcgccatt gtggtagggg tgatcaccta cttcctgcac 540
gaaaac 546

<210> 4086
<211> 537
<212> DNA
<213> Enterobacter cloacae

<400> 4086
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gtgctggaag aacgctaccc gggcacgcac gatttcgcga ctgacaaagc cctctggcag 180
tatacgcagg atctgaaaaa ccagtatctt aagagcgccc cgccgatcaa caaggtgatg 240
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gtgcaggggc gcaagctgaa ggctaaagcg gagatccgcg tcgcgaccgt ctttcgcaat 360
gcgcccgaag cttttctgcg gatgatcgtg gtgcacgagc tggcgcacct gaaagagaaa 420
gagcacgaca aagccttcta tttccgtgct tgccacatgg agccacagta ccaccagctg 480

gagtttgata cccgtttgtg gctgacgcat ttatcggttaa agagtaatgc gcagtag 537

<210> 4087

<211> 999

<212> DNA

<213> Enterobacter cloacae

<400> 4087

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cgtcgcggcg	aacacggcat	gagcgtcaag	caagcgcgcg	tctggtcgct	ggtatgggtt	180
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gcggttgata	acgtcttcgt	ctggctgatg	ctgttcagtt	acttcgcctg	gcctgcggct	360
ctgcaacgcc	gcgtgctggg	gtacggcggt	ctgggcgcta	ttgtcctgcg	taccatcatg	420
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tcggtgattc	tgggtgttat	cggtatcaag	atgctgatcg	tcgattttct	ccatatcccg	900
atcgccattt	cgctcggcgt	ggtgtttggc	attctgctgg	tgacgctgat	tatcaatacc	960
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<210> 4088

<211> 810

<212> DNA

<213> Enterobacter cloacae

<400> 4088

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gcgaaactgg	caatgtggca	gcactctggag	aacaccaaac	agatgctggt	taatgaaaca	720
agtgatgact	ttgaatttaa	cgtgaccgc	tatctttttg	ccgataatcc	ggtcgttcac	780
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<210> 4089

<211> 663

<212> DNA

<213> Enterobacter cloacae

<400> 4089

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ggtctgctgc	ctgctgcctt	tttacccggc	gacagcctgc	tggtagtggt	cggggtgctt	180
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aactggcttt	cgcaccttc	ggccattac	caccagcgag	cgcaccacct	tttcataag	360
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ggcttgcgtgt ggggtgctgat cctgaccacg ctccggtacg cgctgggtaa aacgccggtc 540
 tttatgaaat acgaagacca actgatgtct tgcctgatgc tgctgcccg tcttctgctg 600
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 taa 663

<210> 4090

<211> 330

<212> DNA

<213> Enterobacter cloacae

<400> 4090

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 gaactgaaat ccctggcgga caccctggaa gaggtgctga actcttctgc cgataaatcg 120
 aaagaagaag tcagcaaaact ggcagcaaaa ggcgagcagg cactgaaaga gagccgttac 180
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 gacgaatatg tacgtgataa tccctggacg ggtgtgggta ttggcgccgc agtgggtgtg 300
 gtgctgggtg toctgctgac gcgtogttga 330

<210> 4091

<211> 387

<212> DNA

<213> Enterobacter cloacae

<400> 4091

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 attatggtgc tgggcattgt ggacaagatc ctccgctggg aacgcgaggg ggggtgaaggc 180
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 ggctggatcg tgattttgat ttccaactgt cagagcggaa cgcgcggcga aaaccgcttt 360
 ggtccggatc ctaaggcaag cgcgttaa 387

<210> 4092

<211> 864

<212> DNA

<213> Enterobacter cloacae

<400> 4092

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 cttctcgctt ttatagcggg cctggatatg tttaacggct taacacacat gcaccgtcca 180
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 tttgtcgccg cggcctggct gaaactccc gtgctggcga ttgccgcggc tgcaactggcg 780
 atggcgctga tcgacctgt gcgcaaatcg cctgaacca cggcgccctgc ggcccagaaa 840
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<210> 4093

<211> 471

<212> DNA

<213> Enterobacter cloacae

<400> 4093

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cagtttatcg	ccatcgattt	tccggaaagc	tccaccactg	cgcggctgac	cgcgcagctt	180
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agtgaagcct	ttcgtttgca	ggcgcctggag	tgcggccatc	gcggcctgac	cagcctggtg	420
gatgaacttg	cacgctgtcg	cgaggaagcg	cccgccgagg	aagggatatg	a	471

<210> 4094

<211> 1842

<212> DNA

<213> Enterobacter cloacae

<400> 4094

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gaactgcgca	acggttttgg	gccggatgcc	tttactgttc	aggccacccg	caccggggta	180
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aacacggata	tcatgctcaa	ggtggcattg	tctgaaaacg	acatgcatct	gccgacgac	420
accaaacttt	tccgaacgc	caactgggtac	gagcgtgaaa	cctgggaaat	gttcggcatg	480
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<210> 4095

<211> 996

<212> DNA

<213> Enterobacter cloacae

<400> 4095

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<210> 4096

<211> 693

<212> DNA

<213> Enterobacter cloacae

<400> 4096

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taccgtaagg	agagggcaat	ggaattcgct	ttttatatct	gtggccttat	cgccatcctg	180
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<210> 4097

<211> 1311

<212> DNA

<213> Enterobacter cloacae

<400> 4097

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gacgccttcg	atccgctggc	ctggctgggt	gtgcagcgat	gctatcctca	gttttactgg	180
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<210> 4098

<211> 822

<212> DNA

<213> Enterobacter cloacae

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<400> 4098
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gactgtcgcg agtggcaggc tgtcggggcg tgcctgcatg actacccccg gctctacatt 180
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tccctcggcg gccgcattgc gatgttccat gcctgccagc atcctgcggg gttagacggg 360
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<210> 4099
<211> 1617
<212> DNA
<213> Enterobacter cloacae

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<400> 4099
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<210> 4100
<211> 513
<212> DNA
<213> Enterobacter cloacae

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<400> 4100
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gccaatcaac gcagacaaaa acgacttcag cggattctgc gccatcatgc tgccgagaca 180
ggcgatggcg aacaccatca gggaacaaata ctgggccgga ccaaacgcca gcgaccactg 240

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ggccagcgcc	ggggcgaaga	ggatgatgcc	gccaatggcg	atcagggagc	caaagaacga	300
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atccagcgcg	gtcataatgg	cggcggcatc	gccgggcacg	ttaagcagaa	tgcaggaaat	420
acgccccccg	tattcgacg	cgatataaac	cgtcgccagc	aggatcagcg	ccgattccgc	480
aggcaggtgc	agcgcaaagg	ccagcggcag	taa			513

<210> 4101

<211> 729

<212> DNA

<213> Enterobacter cloacae

<400> 4101

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ctcttactgg	cggaagataa	tcgtgagctg	gctcactggc	tggaaaaagc	gctggtacaa	120
aacggatttg	ccgtggattg	cgtcaacgat	ggacggggcg	ccgatcatct	tttgacggga	180
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aacgtggcag	acaggggttaa	ggggctgaat	gccggggcg	atgactacct	gccgaaaccg	360
ttcgagctgg	aggagcttga	tgcccgcctg	cgtgcgctgc	tgcccgccag	tgaaggcgga	420
accagggagc	gccagcggct	gggagagctg	gagtagcatg	atgaaggctt	ttttctgctg	480
cgcgatgaac	ccctttccct	cacgcgcgcg	gaactctctt	tgctgaagg	gctgatgcac	540
cgtcggaccc	gtcccgtctc	cgggcaacag	cttttcgacc	aggtgttcag	cctgaacgac	600
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agcggcgtgc	ggatcaccac	cctccggggg	ctgggctacg	tgctggagtg	cggcgatgaa	720
gtgggttaa						729

<210> 4102

<211> 366

<212> DNA

<213> Enterobacter cloacae

<400> 4102

cggcgtaagc	agccggtaat	gattgagggg	gatgacgtgc	tgctgggtga	actctgcgcc	60
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cgcacggcta	acgatgccgt	tgagctgagc	gtggaggaca	goggaccggg	tattgctgaa	180
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gggtccggca	ttggcctggc	gctggctaac	gatattgcc	gcctgcaccg	cagccatctt	300
cagctgatgc	ccagtgaata	tctgggtggg	ctgagcgtga	aaatgcgctt	tctgatgctg	360
atataa						366

<210> 4103

<211> 672

<212> DNA

<213> Enterobacter cloacae

<400> 4103

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atcacgacaa	tgaaaaaagt	ggcattaatg	ggcttaagcg	gcctgatgtt	tgtttcagca	180
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<210> 4104

<211> 1371

<212> DNA

<213> *Enterobacter cloacae*

<400> 4104

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ttcttcgggt atgcggcgta ctatcttgta cgtaaaaact ttgcgctcgc catgccgtat 180
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<210> 4105

<211> 444

<212> DNA

<213> *Enterobacter cloacae*

<400> 4105

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cgcgcccgcg caaggcacia aaacacacct ttcgaatcag gtattgatte agtaggtacc 180
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<210> 4106

<211> 690

<212> DNA

<213> *Enterobacter cloacae*

<400> 4106

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cagcgaggca ataagatgga ttatacgctc acccgcatag atcctaacgg tgagaatgac 60
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caggttgacc tgatggtggt ggcagggacc tgctttacca agatggcacc ggttattcag 360
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<210> 4107
 <211> 1356
 <212> DNA
 <213> Enterobacter cloacae

<400> 4107
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 tatgccgggtg cgcgtaaaagc ccttggcggc atggcgccgg acgacatcgt taacgcggtg 180
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 <211> 2760
 <212> DNA
 <213> Enterobacter cloacae

<400> 4108
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<210> 4109

<211> 1851

<212> DNA

<213> Enterobacter cloacae

<400> 4109

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<210> 4110
 <211> 1536
 <212> DNA
 <213> Enterobacter cloacae

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 <211> 1464
 <212> DNA
 <213> Enterobacter cloacae

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<210> 4112

<211> 339

<212> DNA

<213> Enterobacter cloacae

<400> 4112

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<211> 1767

<212> DNA

<213> Enterobacter cloacae

<400> 4113

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<210> 4114

<211> 1068

<212> DNA

<213> Enterobacter cloacae

<400> 4114

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<210> 4115

<211> 1122

<212> DNA

<213> Enterobacter cloacae

<400> 4115

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<210> 4116

<211> 1221

<212> DNA

<213> Enterobacter cloacae

<400> 4116

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<210> 4117

<211> 2637

<212> DNA

<213> Enterobacter cloacae

<400> 4117

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 <211> 2871
 <212> DNA
 <213> Enterobacter cloacae

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<210> 4119
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 <213> Enterobacter cloacae

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<210> 4120

<211> 423

<212> DNA

<213> Enterobacter cloacae

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<210> 4121

<211> 651

<212> DNA

<213> Enterobacter cloacae

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<210> 4122

<211> 336

<212> DNA

<213> Enterobacter cloacae

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<210> 4123

<211> 498

<212> DNA

<213> Enterobacter cloacae

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<210> 4124

<211> 207

<212> DNA

<213> Enterobacter cloacae

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<210> 4125

<211> 969

<212> DNA

<213> Enterobacter cloacae

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<210> 4126

<211> 1191

<212> DNA

<213> Enterobacter cloacae

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<210> 4127

<211> 741

<212> DNA

<213> Enterobacter cloacae

<400> 4127

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<210> 4128

<211> 2328

<212> DNA

<213> Enterobacter cloacae

<400> 4128

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<210> 4129

<211> 1221

<212> DNA

<213> Enterobacter cloacae

<400> 4129

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<210> 4130

<211> 1530

<212> DNA

<213> Enterobacter cloacae

<400> 4130

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<210> 4131

<211> 1050

<212> DNA

<213> Enterobacter cloacae

<400> 4131

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<210> 4132

<211> 744

<212> DNA

<213> Enterobacter cloacae

<400> 4132

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744

<210> 4133

<211> 201

<212> DNA

<213> Enterobacter cloacae

<400> 4133

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<210> 4134

<211> 288

<212> DNA

<213> Enterobacter cloacae

<400> 4134

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<210> 4135

<211> 1659

<212> DNA

<213> Enterobacter cloacae

<400> 4135

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<210> 4136

<211> 1320
 <212> DNA
 <213> Enterobacter cloacae

<400> 4136
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<210> 4137
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 <212> DNA
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<210> 4138
 <211> 546
 <212> DNA
 <213> Enterobacter cloacae

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gaagagatcc	tggagtcacc	gttaggcggc	gatgaaaatg	ccgaactcca	tgccagcgga	300
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<210> 4139

<211> 1053

<212> DNA

<213> Enterobacter cloacae

<400> 4139

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<210> 4140

<211> 1095

<212> DNA

<213> Enterobacter cloacae

<400> 4140

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<210> 4141

<211> 291
 <212> DNA
 <213> Enterobacter cloacae

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 ctggtcgcag gccaggtgga ctggctgacc gaaccgctgg cctttatcag tgaaggggaa 240
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<210> 4142
 <211> 1329
 <212> DNA
 <213> Enterobacter cloacae

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<210> 4143
 <211> 984
 <212> DNA
 <213> Enterobacter cloacae

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<210> 4144

<211> 768

<212> DNA

<213> Enterobacter cloacae

<400> 4144

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<210> 4145

<211> 348

<212> DNA

<213> Enterobacter cloacae

<400> 4145

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<210> 4146

<211> 2463

<212> DNA

<213> Enterobacter cloacae

<400> 4146

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<210> 4147

<211> 234

<212> DNA

<213> Enterobacter cloacae

<400> 4147

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acccatggaa aaccggaagt ggatgatgat aacggtctta taacttatga ggatgttgct 180
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<210> 4148

<211> 1149

<212> DNA

<213> Enterobacter cloacae

<400> 4148

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1149

<210> 4149

<211> 966

<212> DNA

<213> Enterobacter cloacae

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<210> 4150

<211> 894

<212> DNA

<213> Enterobacter cloacae

<400> 4150

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<210> 4151

<211> 495

<212> DNA

<213> Enterobacter cloacae

<400> 4151

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cgtggggcag	ggaaccagac	caccgagggc	agtaccgttg	cgcattaac	caaaggcgca	300
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agggcacgca	gccaccggc	gctgtcggca	ttttgtgtcg	ttttgaccgc	caaaaaaacg	420

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<210> 4152

<211> 807

<212> DNA

<213> Enterobacter cloacae

<400> 4152

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<210> 4153

<211> 975

<212> DNA

<213> Enterobacter cloacae

<400> 4153

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<210> 4154

<211> 1602

<212> DNA

<213> Enterobacter cloacae

<400> 4154

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atcttctctt	ataccgcgcg	cgtgacgctg	aacaaatccc	cggcggttat	cctcaacgta	420

ctgggctggg	acgccagcaa	catcgccagc	cagctaaaga	aagtggacga	ccataccctc	480
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<210> 4155

<211> 864

<212> DNA

<213> Enterobacter cloacae

<400> 4155

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<210> 4156

<211> 273

<212> DNA

<213> Enterobacter cloacae

<400> 4156

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atcgccctgg	tgatccaggc	cacgtcacac	tggctgctga	ccacgcggcc	ttataagcat	180
caggaacggg	attttctgcg	gtacctcttt	accgttttca	ggtgtgtcgc	tacggatagg	240
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<210> 4157

<211> 537

<212> DNA

<213> Enterobacter cloacae

<400> 4157

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cgtgaaggta	gcacgcagat	tatcgcttta	aatcacggca	taatgcagcc	cacggacaag	180
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<210> 4158

<211> 753

<212> DNA

<213> Enterobacter cloacae

<400> 4158

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<210> 4159

<211> 663

<212> DNA

<213> Enterobacter cloacae

<400> 4159

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<210> 4160

<211> 1452

<212> DNA

<213> Enterobacter cloacae

<400> 4160

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<210> 4161

<211> 429

<212> DNA

<213> Enterobacter cloacae

<400> 4161

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<210> 4162

<211> 879

<212> DNA

<213> Enterobacter cloacae

<400> 4162

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<210> 4163

<211> 1140

<212> DNA

<213> Enterobacter cloacae

<400> 4163
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<210> 4164

<211> 267

<212> DNA

<213> Enterobacter cloacae

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<210> 4165

<211> 2181

<212> DNA

<213> Enterobacter cloacae

<400> 4165
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gaaacgatta cggtgacgca gggcgtgagt gaagagccca ctgcgcccgt aaaaggcatt 180
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<210> 4166

<211> 579

<212> DNA

<213> Enterobacter cloacae

<400> 4166

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gacgtgttta	agtggtggcg	gaaaattttt	atgctgatgg	cgacgcgaca	cggtcgggcc	360
cacgtcagcc	tgaaatccga	tccggaaaaa	tcgctgctca	atcagcagat	ctaccgtggc	420
gtggagcccc	gttaccatct	gaataaaaaa	cactggatct	ccctttatgg	caaggacgac	480
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<210> 4167

<211> 774

<212> DNA

<213> Enterobacter cloacae

<400> 4167

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cgtgtctatt	ttgccgacat	gcaccgcgtg	gatttgaaaag	atgacgacca	gtggatggcg	540
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<210> 4168

<211> 1302

<212> DNA

<213> Enterobacter cloacae

<400> 4168

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<210> 4169

<211> 786

<212> DNA

<213> Enterobacter cloacae

<400> 4169

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<210> 4170

<211> 297

<212> DNA

<213> Enterobacter cloacae

<400> 4170

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gaatcacagt	atgaaaaaat	cggtaccgtg	agcacggcta	acgaagtctc	tgctgcacgat	180
gcgaaaaaag	agctggtcga	aaaggccgat	aaagaagggt	ctgatgtact	ggtgctgact	240
tccggttaata	caaacaacaa	aattcacggc	accgccgata	tttacaagaa	aaaataa	297

<210> 4171

<211> 1986

<212> DNA

<213> Enterobacter cloacae

<400> 4171

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<210> 4172

<211> 1392

<212> DNA

<213> Enterobacter cloacae

<400> 4172

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<210> 4173

<211> 1296

<212> DNA

<213> Enterobacter cloacae

<400> 4173

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<210> 4174

<211> 1041

<212> DNA

<213> Enterobacter cloacae

<400> 4174

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<211> 420

<212> DNA

<213> *Enterobacter cloacae*

<400> 4175

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<210> 4176

<211> 2721

<212> DNA

<213> *Enterobacter cloacae*

<400> 4176

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<211> 1092

<212> DNA

<213> Enterobacter cloacae

<400> 4177

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<210> 4178

<211> 3165

<212> DNA

<213> Enterobacter cloacae

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<211> 306

<212> DNA

<213> Enterobacter cloacae

<400> 4179

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<211> 723

<212> DNA

<213> Enterobacter cloacae

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 <212> DNA
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 <212> DNA
 <213> Enterobacter cloacae

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 tattgcccg gcacgtccta aacgcgatg tgggcggaaa tcgacogtca agtctccgag 660
 gcggcgggta aaccgcttgg ctacgggacg gaaacctttg ccaaacgcac tacgcttggc 720
 cgtttgtccg agccggaaga cgtggccgcc tgcgtctctt acctgcggcg gccggattcc 780
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<210> 4183
 <211> 258
 <212> DNA
 <213> Enterobacter cloacae

<400> 4183
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 aaaaagccga tctcaaccg ctggaaaaac gctacggcat cagcgacagc gatgaatcgt 180
 accgctggaa cgaggtgat gagcggttca gcgttgataa aaccctaacc gaaccaaac 240
 gtttcggctg ggtggtag 258

<210> 4184
 <211> 1245
 <212> DNA
 <213> Enterobacter cloacae

<400> 4184

aggatggcga	taccggcgcg	agtgagggca	gcgaatttat	ccgccggcac	attattcccg	60
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atcggcagcg	ggtttattgg	cccgccacac	atcgaggcgc	tcaggcgtct	cggtttgtg	180
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acgccgcagt	ttgcgacgtt	tcacgatggc	gcaaacgtga	tgtatatcat	tgatgccatt	1200
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<210> 4185

<211> 1020

<212> DNA

<213> Enterobacter cloacae

<400> 4185

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gacaccgtga	aggcgaaaaa	ccgcgagcgc	gttctgcggg	cgattcagga	gagcaactac	180
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ccgtcgcggg	atatcggggc	caaggcggtc	gatctgctct	taaataagat	cgacaacccg	960
gacgcgcccc	cggaaagggt	gatgatggac	tggcgcttta	tttccgcgcg	cagcacctga	1020

<210> 4186

<211> 309

<212> DNA

<213> Enterobacter cloacae

<400> 4186

aacgacaaca	ggagatggtg	gatgagcaaa	aagattattg	actgggacga	actcagagct	60
gaactgttaa	gcgattcaga	agttcaggct	tcctttgatg	cagaagagcg	caaggaaacg	120
ctgcgggaga	tgctggcgca	atggcgcaat	catgctggtc	tgacgcgcgc	ccaggtggcg	180
gagcggatgg	gcgtcagcgc	acogacggta	tcacgaatgg	aagcaaatat	taccggggcg	240
agtctcgata	cattaacgcg	ttatgcgctg	gtgtgcgggg	taaagcatcc	gcagataaac	300
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<210> 4187

<211> 1632

<212> DNA

<213> *Enterobacter cloacae*

<400> 4187

tattgcaaat	tattaccatt	tgcattagcg	ttgttaacaa	atttcgttgg	ggaacaagcg	60
gtaatgaaga	gggtatggag	tgggttgctg	ttggggatcg	gcgcgctgcc	cgccgtggcg	120
gcaacgtgcg	agcagacgtc	ccggcagggc	gatattcagg	gaaagtttga	tgccagcggc	180
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acgcccgatg	tggagccggg	agatgcgagc	cataagcgcg	tgacctttct	gtggcgcggc	600
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tttgaacagg	tgctgaggaa	aaaaggctac	cgcgtcagct	tccacccctc	atccagcggc	1560
cacgactacg	cggcctgggt	tgaagcgctg	atccacggga	tgcgcgatct	cactggctta	1620
cgacgccagt	ga					1632

<210> 4188

<211> 894

<212> DNA

<213> *Enterobacter cloacae*

<400> 4188

cccattgtctg	actatccaac	cattgcgctg	acaggaccgg	gtgcgattgg	gaccaccatc	60
gccgcgggtgc	tgcatgaagc	gggccgcacg	ccgctgctgt	gtggtcgcac	cgcgcatccg	120
gaactgcgcc	tgcgctcatga	tgagggtgaa	attgtggtgc	ccggtccggg	actcacggat	180
cccagcgtca	ttacgcgccc	cgttgacctc	gtttttttgg	cggtcaaaaac	gacacaaaat	240
gccgacagcg	ccgggtggct	gcgtgcctct	tgcatgaaa	acaccgtggt	ctgcgcgctg	300
caaaacggcg	tggagcagaa	agcccagctt	gcgcctttgg	ttaatggcgc	aacggctactg	360
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aaaccgcgcc	tgacgctgcc	ggacgtgccg	caggcgagc	gggtggtcga	agcgcttcgt	480
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tgggacatcc	gcaacggcgt	gatccagcgc	tatggccgca	ggcacgggat	tgcggtgccc	840
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<210> 4189

<211> 1779

<212> DNA

<213> *Enterobacter cloacae*

<400> 4189

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cgtcagtggg	cgacggcgcg	cgatatggtt	gtcggccagc	tggagcgca	gggtgtgaag	180
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ttcagcccgg	tgaccaataa	cgccgtggag	gtcaattcgc	ctgacgcgat	tgccgaggtg	540
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<210> 4190

<211> 240

<212> DNA

<213> Enterobacter cloacae

<400> 4190

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gcacgtctaa	aacgccgatg	tgggcggaaa	tcgaccgtca	agtctccgag	gcggcgggta	120
aaccgcttgg	ctacgggacg	gaaacctttg	ccaaacgcac	tacgcttggc	cgtttgcctg	180
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<210> 4191

<211> 765

<212> DNA

<213> Enterobacter cloacae

<400> 4191

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gtcacccgcg	tgcccgaaat	caatcaacat	ggtcaaaccg	ttaacgatat	tgtcccgac	120
tggaaatgcg	cccgcgcgtt	aaccgcgtac	ctgctcaccg	gccagtattg	ccgcctggag	180
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gacggcgaat	ggccgcagcg	cgatgcagag	ctgcgcgcct	ggctggcggc	ggagaatttt	720
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<210> 4192
 <211> 2193
 <212> DNA
 <213> Enterobacter cloacae

<400> 4192
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<210> 4193
 <211> 489
 <212> DNA
 <213> Enterobacter cloacae

<400> 4193
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 gatctgatta agaaagatgc ggcggtgacc ttcgagccaa ccaccaacag caaaggcctt 180
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 aaaatcgaca aagagaacgc ggtgctgtcg gtggggtgc tgatgaacag catcaaacca 360
 aaaaccgaga aaaagccggg cgaaatgcgc acggtgaaga agctggcgat cactaccttc 420
 cagaacacga cgctgatctt cactgaagat gagatcgaca tcgatgccac ggtgaagctg 480
 ctgaagtaa 489

<210> 4194
 <211> 930
 <212> DNA
 <213> Enterobacter cloacae

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 tgcatacccc agtccgcgct atcacagcgt atcaaacagc ttgaaaacat gttcgggcag 180
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<210> 4195
 <211> 237
 <212> DNA
 <213> Enterobacter cloacae

<400> 4195
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 gcgggcttga ggatcaccgc gttcccggcg gcaatcgccg gtgcgacctt ctgcatttcg 180
 ctggcaatcg gcgagttcca ccgcgtgatg gccgccacca cgccaagggg ctcgtag 237

<210> 4196
 <211> 369
 <212> DNA
 <213> Enterobacter cloacae

<400> 4196
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 tgtactccag cgtctgcacc acgcgatagg ccgtcgccct cggcatatcc accagccggt 240
 gcagctcggc aaaagtcaga tcgcgatgct gtcgccaaa ggccaacagc agctgtaaac 300
 cgcgctccag ccccggcacc agatacttca ctctctgatc gtttgccatc atcgccctac 360
 cttagttaa 369

<210> 4197
 <211> 765
 <212> DNA
 <213> Enterobacter cloacae

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taccgggtga	cggactggga	atgccagcgc	gacgaacgta	tcgccaaagt	ccaggggaat	720
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<210> 4198

<211> 750

<212> DNA

<213> Enterobacter cloacae

<400> 4198

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<210> 4199

<211> 960

<212> DNA

<213> Enterobacter cloacae

<400> 4199

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<210> 4200

<211> 318

<212> DNA

<213> Enterobacter cloacae

<400> 4200

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gccaggcgta	tcgtctcgct	gtcgcgcagc	tcaccaagca	gaatcacatc	cggatcttca	180
cgcagcgcgc	tgcgcagggc	ctcggcaaa	gacgggctgt	gcaggcctat	ctcccgcgtgc	240
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tgccccgtccg tctggtga

318

<210> 4201

<211> 327

<212> DNA

<213> Enterobacter cloacae

<400> 4201

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ggtgaacctg	gccggcataa	acaggtaaaa	atccttaacc	cgcaatctat	cccgcacggaa	300
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<210> 4202

<211> 597

<212> DNA

<213> Enterobacter cloacae

<400> 4202

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<210> 4203

<211> 387

<212> DNA

<213> Enterobacter cloacae

<400> 4203

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<210> 4204

<211> 1071

<212> DNA

<213> Enterobacter cloacae

<400> 4204

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ccgggtaaga	aagaggttga	gaaacgcctg	tgggagatca	gtgaagcggg	cactccggcg	540

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<210> 4205

<211> 1260

<212> DNA

<213> Enterobacter cloacae

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<210> 4206

<211> 1683

<212> DNA

<213> Enterobacter cloacae

<400> 4206

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<210> 4207

<211> 639

<212> DNA

<213> Enterobacter cloacae

<400> 4207

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<210> 4208

<211> 846

<212> DNA

<213> Enterobacter cloacae

<400> 4208

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<210> 4209

<211> 1314

<212> DNA

<213> Enterobacter cloacae

<400> 4209

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<210> 4210

<211> 696

<212> DNA

<213> Enterobacter cloacae

<400> 4210

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<210> 4211

<211> 1425

<212> DNA

<213> Enterobacter cloacae

<400> 4211

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<210> 4212

<211> 453

<212> DNA

<213> Enterobacter cloacae

<400> 4212

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<210> 4213

<211> 420

<212> DNA

<213> Enterobacter cloacae

<400> 4213

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<210> 4214

<211> 717

<212> DNA

<213> Enterobacter cloacae

<400> 4214

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<210> 4215

<211> 585

<212> DNA

<213> Enterobacter cloacae

<400> 4215

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<210> 4216

<211> 1173

<212> DNA

<213> Enterobacter cloacae

<400> 4216

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<210> 4217

<211> 1344

<212> DNA

<213> Enterobacter cloacae

<400> 4217

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<210> 4218

<211> 828

<212> DNA

<213> Enterobacter cloacae

<400> 4218

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<210> 4219

<211> 396

<212> DNA

<213> Enterobacter cloacae

<400> 4219

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<210> 4220

<211> 693

<212> DNA

<213> Enterobacter cloacae

<400> 4220

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<210> 4221

<211> 1041

<212> DNA

<213> Enterobacter cloacae

<400> 4221

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<210> 4222

<211> 1158

<212> DNA

<213> Enterobacter cloacae

<400> 4222

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cactttggtc	gcgaacattt	cccatgggaa	aaaaccgaca	aagccgcctt	gctgcgtgat	1140
gctgccggtc	tgaataaa					1158

<210> 4223

<211> 570

<212> DNA

<213> Enterobacter cloacae

<400> 4223

gcgcacacga	ctgatactcc	tgcgggaggg	gcctcttgcg	cctccccgct	tcccgettta	60
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agcctgcggg	aaaaactcgc	ccaggccaac	ctgaagctcg	gccgcaatta	tcctgaaccg	180
aagctgggtct	atcagcagcg	tggcaccgcg	gcaggtaccg	cctggctgga	atcgtatgag	240
atccgcctca	acccggtggt	gatgatggaa	aatcagcagg	cgtttatcga	agaagtgggtg	300
cgcacgagc	tggcgcatct	gctgggtgtg	aagcactttg	gccgcgtcgc	gccgcacggc	360
aaagagtggg	agtggatgat	ggaggcgggtg	ctcggcgctt	cgccccgtcg	cacccatcag	420
ttcgagctgg	aatcggtacg	cgcgaatacc	ttcccctacc	gctgccagtg	ccagcagcac	480
cagcttacgg	tcggccgcca	taaccgcgta	gtgcggggcg	aggcgaccta	ccgctgcgtt	540
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<210> 4224

<211> 708

<212> DNA

<213> Enterobacter cloacae

<400> 4224

aatcgaagcg	gaattcccga	tctcgatacc	cggaaatgctg	atggacgcta	tcgaaaaacg	60
tttacagaaa	taacctgtga	cagcgccgtg	gtttatcccc	atactgggcg	ctgtcgcttt	120
ttaaaccagg	aaacagtacc	tctgacaatg	aattttacagc	atcactttct	tattgccatg	180
cctgctctcc	aggatccgat	tttcgcgcgc	gccgtgggtct	atattttgtga	atacaacgaa	240
gacggcgcgga	tggggattat	catcaataag	ccgctggaaa	accttcaggt	tgaagggatt	300
ctggacaagc	tgaaaatccc	tgtcgaagcg	cggctgcggg	aaatccgtct	cgataaaccg	360
gtgatgctcg	gcggctccgt	tgcagaagat	cgtgggtttta	tcctgcatac	cccgcgggtt	420
ttctcgtcca	gcattcgtat	ctccgataac	accgtcgcca	ccacctctcg	cgatgtgctt	480
gaaacgctgg	gcactgccag	tcagccttct	gaggtgctgg	ttgcgctcgg	ttacgcctcc	540
tgggaaaaaag	ggcagctgga	acaagaaatt	ctggacaacg	cctggctgac	ggccccctgcg	600
gatatgaata	tcctgtttta	aacccctatc	gccgatcgct	ggcgtgacgc	ggcaaaactg	660
attggcattg	atattctgac	catgcctggc	gttgcgggggc	acgcgtaa		708

<210> 4225

<211> 381

<212> DNA

<213> Enterobacter cloacae

<400> 4225

cttagcgcaa	ccgccatcag	tgcggctggc	ggctcccgtg	gagcgccgtg	tacagcaatt	60
acgtgtcggg	gcaatgggtt	agcatcgcca	agacaaagag	gaatgagtat	ggccagaacc	120
attttttgtg	ctttcctaca	gcgcgacgct	gaaggccagg	atttccagct	ctaccggggc	180
gacctgggta	agcgcattta	caacgagatc	tccaaagaag	cctggggaca	gtggcagaaa	240
aaacagacca	tgtgatcaa	cgagaaaaag	ctcagcatga	tgaaccggga	acaccgcaaa	300
ctgctggagc	aggagatggg	gaacttcctg	ttcgagggta	aagacgtcca	catcgaaggc	360
tatacgccac	cgaaaaaata	a				381

<210> 4226

<211> 1389

<212> DNA

<213> Enterobacter cloacae

<400> 4226

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cacgacccga	ttgatattca	gcggccatcg	ctcaaagagc	gctgggtggc	tattatggat	120
acctggaaaa	tggcatttat	acctctgcgc	ctgttcgttc	tggcgggcgc	gctgattgcg	180
attgattgcc	tgggcggaaa	actaccgagc	gacattgtgg	tcattggtggc	cacgctggcc	240
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gcggcgccaa	tttgcgccac	ctttatccct	tcgcgcgtgg	tctattacgg	cctgctgccg	360
gagtgtgtgg	tcgagtcac	caccaagttc	tacaaatcca	ccaacattct	ctacctctat	420
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accggtgaag	gccagctgat	gcogaatcgc	gccaatgccg	atgccaccgt	ctctcagcct	840
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ggtgacgtgg	cgatcctgac	cgcaggcaac	cgcatgagcc	tgatgccgtt	cgcccagatt	1320
gctaccogta	tccggcggggc	gattaaacgtc	tccatctctc	tgctgattct	gggcaacttc	1380
ctcgtttaa						1389

<210> 4227

<211> 1032

<212> DNA

<213> Enterobacter cloacae

<400> 4227						
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agcgggaaca	acgcggtgct	aatggagaac	accccgagcg	ggatcgcgcg	ctactgccgt	420
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aacgccatth	cggcctcgga	agtgcgcgct	ttactcaaga	cacagcagtt	ttcccggatc	960
cgggagattg	tcccggactc	caccttcggg	cacctcgaag	cacattatcg	tgcgagtgcg	1020
gaagtcgcac	aa					1032

<210> 4228

<211> 903

<212> DNA

<213> Enterobacter cloacae

<400> 4228						
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ccgggcgcca	atgccgccat	gctctctacc	gcctttatct	accgtccgga	ctccatcatg	120
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cacgcgttgc	agcacccgat	gtatcaggat	atcgaaacccg	tgggtcgctat	taaccgctg	240
agcacgccgt	ttggcctgct	ggatctggag	gcgcgcgtgc	gcgcgggcgt	ggacgtgata	300
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gcgctggccg	cctttgacta	cgtgatggac	atgcagacccg	agcgcggcga	cggcaccgag	540
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gaagagggcg	agcgtaacgg	cctgggcgtg	gtgtgcctca	acggcaaaat	ggtggatgca	840
ccgattatta	accacgcgca	ggtgggtgctg	gagcgcgcgcg	cggcctcccg	cgtgcgtcgg	900
taa						903

<210> 4229
 <211> 621
 <212> DNA
 <213> Enterobacter cloacae

<400> 4229
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 gcgacaggatg aaggaggaag tatgacttta gcgacacccg tgcggggcggg tgtcagcctg 120
 gaggaactgc tggcggcgaa agagcgccgc gcagcccgcg aggtctgactg gcttacgcac 180
 tatcaacaac cggatgatctc cctcacgctg gtcacgcccg gggaaatcaa agacagcctg 240
 cgctaccgca acaccatggg ggtggcggtta cagatgtgcg accagctgct gtgggaaac 300
 cgctggcagg tgctggaccg cctgggtgctc tggctaccca ccggacctga agcattgtgg 360
 tgcgtcgcgc atccggcggc ggaaatcaaa gcgcaactgtg cagaactgga gcagacgcac 420
 ccgctcggca gactgtggga tctggacgtg atctgccttg aaaacggcct cgtgggccgt 480
 cagtcgctgg gttcacacct cagacgctgt ctgatttgcg acgagcccgc ccacgcgtgt 540
 tcccgttcgc gccaccatcc cgttgagcag gtgggtttccc gcgtggagaa gatgatcgat 600
 gactggtttg ctcgcgacta a 621

<210> 4230
 <211> 771
 <212> DNA
 <213> Enterobacter cloacae

<400> 4230
 ctttgataaa tgcccgtttc ccgaacattc tcacaagcag acaactcttt tatgaaaaac 60
 gacgtcattt caccggaatt tgatgaaaaac ggctcgccgc tgcgcgctat tcgcagcttt 120
 gtccgcccgc agggacgcct gacaaaaggg cagcaacacg cgctggacaa ctactggccg 180
 gtgatggcg ttaggttcag cagcaaacgc ctgcacttca ccgacctgtt tggccgcgac 240
 gcgccagtga cctggagat cggctttggg atgggcaact cgctggtcac tatggcgaaa 300
 gcgcgcccgc agcagaactt cctcggtatt gaagtacatt cgccggcggt cggcgcgctg 360
 ctggcaacgc cccatgaaga gggcggttag aacctgcgcg tcatgtgtca cgacgcggtg 420
 gaagtgtgc acaaaatgat tcttgacaat tctttgaaca tgggttcagct cttttccct 480
 gacccatggc acaaagcgcg tcataataaa cgccgtatcg ttcaggcacc gtttgccgag 540
 ctggtgaaaa gtaagctcaa gctgggcggc gttttccaca tggcaaccga ctgggaacct 600
 tatgcggaac atatgctgga agtgatgtcg tccctggacg ggtataaaaa tcagtctgaa 660
 agcaacgact acgtaccgcg tccggattca cgtccgggtg caaaatttga acagcgtggc 720
 catcgtcttg gtcacggcgt atgggactta atgttcgaga gggtgaaata a 771

<210> 4231
 <211> 1998
 <212> DNA
 <213> Enterobacter cloacae

<400> 4231
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 ggcgaacagg gtgtactacg ttctatgcag gaggttgca tgagctocca ggaagccagc 120
 aagatgctgc gcacttacaa tattgcctgg tggggcaata actactacga cgttaacgag 180
 ctggggccaca tcagtgtctg cccggatccg gacgtcccgc aagcgcgcgt ggatctcgct 240
 aaactggtga aaaccctgta agcgcagggt cagcgcttgc ctgcactgtt ctgcttcccg 300
 cagatcctgc aacatcgctt gcgttctatt aacgcgcgt tcaaacgcgc gcggaatcg 360
 tatggttata acggcgacta tttcctcggt taccgatca aggtcaacca gcaccgtcgc 420
 gtgattgagt cctgatcca ctccggcgag ccgctgggccc tggaaagcag ctctaaagcg 480
 gagctgatgg cgttctggc gcacgcgggc atgaccgggt cggatgatcg ctgtaacggc 540
 tataaagatc gcgaatacat tcgtctggca ttaattggcg agaagatggg ccacaaggtc 600
 tatctggtga tcgagaagat gaccgaaatc gcgatcgtgc tggaaaggcg cgagcgtctg 660
 aacgtgatcc cagccttgg cgtgcgtgcg cgactggcgt cgcagggttc cggtaaatgg 720
 cagtcttccg gcggtgaaaa atccaagttc ggctcgcgc cgaaccagggt gcttcagctg 780
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caccgacgg	tgatcaccca	atccggccgc	gcggtcacgg	cgcaccatac	ggtactggtc	1140
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gccccacgtt	ccctgcaaa	catgtgggaa	acctggcagg	agatgcacga	gccgggcacg	1260
cgctgttccc	tgcgcgaatg	gctgcacgac	agccagatgg	acctgcacga	tattcacgtc	1320
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tcgatgccgg	atgcctgggg	tatcgaccag	ctgttcccgg	ttctgccgct	ggaagggtcg	1560
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cagctggatc	cgaaaaaact	gctcaccacg	ttccgcgacg	aggtaaaaaa	caccggtctg	1920
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<210> 4232

<211> 438

<212> DNA

<213> Enterobacter cloacae

<400> 4232

tcgattaaca	aattcgtcac	attgtcgcct	gacgaaacat	tcacgccttt	tatattgacc	60
gtattaaata	agaaacagag	tttcatatat	gaaacaaaag	cctggaggat	cgtgatgagc	120
tgatagggcg	tatgtgacgc	agagcaagta	caggaagatt	tcccttttag	cggcaacgtc	180
gacggtaaag	agatcggcgt	ttacctgac	gacgggtgaat	attacgcgct	ggaggacgta	240
tgcccgacg	cctatgccct	gctgagtcag	gggttcgtgg	aagacggcaa	ggtggaatgc	300
ccgctgcacg	aggcgggtgt	cgacgtcaaa	accggccagt	gtctgcacgg	ccccggagga	360
cgcaacctca	accgataccc	ggttcgggtc	tttgaaaacc	agattcagat	taccttcgtt	420
gaggagaccg	tggcataga					438

<210> 4233

<211> 1116

<212> DNA

<213> Enterobacter cloacae

<400> 4233

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gataaaggcc	tgctggcct	ctggtatccg	gtgctggcga	gctgggaagt	gcagtctgcg	180
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atgggtgctcc	agccgaccaa	aaccggtttt	attttcgaga	agaaagggca	gagcggcgct	720
aattttgact	gggtggagct	gggcaacagc	ggcacctgct	ggatgcgcct	ctccattccg	780
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gataacgaca	actgccgcgt	cttcttctgg	cgcattcgcc	gggtgcaggg	ctggcagcgc	900
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caggaccgcg	tgggtgctgga	aagcctggcg	ccaaacgcgc	gcgatcatga	gtacctgtat	1020
cagcacgacg	tcggtctttc	gcgcctgcgc	cgcgatgatg	aaaaggccgc	caaagagcag	1080
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<210> 4234

<211> 552
 <212> DNA
 <213> *Enterobacter cloacae*

<400> 4234
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 cctgaccatc tgacgatgga agagtgggtc gagtcgcgca tcgcgcgctt cgaaggccgt 120
 aaatacgact ggaacgcgct gaagtccag gccgattttg atccgaaata tcgccgggcg 180
 cagatgcgct acatcggcac cggcgcaacc gggtggcgga acgacaccaa taccgtgcag 240
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 caggacggcg acaactacac cgaaaacgtg ctgcgcgagc gtgacctgat ctccgttcgg 420
 ccgggcatct atcgcggcct gtttaaccac ggtgaagaag aggcgctgat gtgcgtcatg 480
 ctggggacca ataagccgga aatcccgacc tatccgtccg atcatccgct ttccaaagtg 540
 aagcggaaact aa 552

<210> 4235
 <211> 780
 <212> DNA
 <213> *Enterobacter cloacae*

<400> 4235
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 gatcgcgtca ttcatctggt gctggccgac gcggcgacgg ggtacggcaa tgccgcgccg 360
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 ggcatgccgt ttatgcccat tccgcaggcc gggcacgcca gctatctcga taacgacgcg 720
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<210> 4236
 <211> 1185
 <212> DNA
 <213> *Enterobacter cloacae*

<400> 4236
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1185

<210> 4237

<211> 855

<212> DNA

<213> Enterobacter cloacae

<400> 4237

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<210> 4238

<211> 783

<212> DNA

<213> Enterobacter cloacae

<400> 4238

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gatgtggtgt	tccagctgga	gccaactcaa	actcagcaaa	ctgaggcggc	taaggcgcag	780
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<210> 4239

<211> 384

<212> DNA

<213> Enterobacter cloacae

<400> 4239

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tgccggcgaa	acagcgacag	ctcatggcag	ccgctgatcc	acgacctcac	caacgaaagg	180
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tccctggaag	acgatggctt	tctttttcag	ctttatctgc	ctgaaggcga	cgatgtcagc	300
gtcttcgata	gcgccgatgc	gctcgcgggt	tgggtaaaac	actatcttct	tggcctgggc	360
gtaacccaac	ctaaactgga	ataa				384

<210> 4240

<211> 600

<212> DNA

<213> *Enterobacter cloacae*

<400> 4240

tcttccggga	ctttatcgcc	ccggcgctgg	gcataactca	ccgcttcac	ggctcggagc	60
cgttctgcga	tatcacccgc	cagtacaacc	agacgctgca	cgacctgctg	gcctcgcata	120
ttgacgtggt	ggagatgccg	cgcatacaag	ccaccggcaa	cgccatttcg	gcctcggaa	180
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cagggattaa	tcattattga	agacaaagg	gcgctggact	gtgtgatccg	cgctcgcttg	540
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<210> 4241

<211> 1668

<212> DNA

<213> *Enterobacter cloacae*

<400> 4241

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gcgtgcgtcg	gtaaggatga	cataatgaat	cagacagaac	ttctccatat	gaatttcccc	180
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atcaacaccg	tcgtggcgct	gctggcgcg	atgggcttca	aaaatctgac	cctggcttcc	420
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<210> 4242

<211> 807

<212> DNA

<213> *Enterobacter cloacae*

<400> 4242

tcgatgactg	gtttgctcgc	gactaaaccg	cgcccggttg	acgtgcctgc	gcttgccgaa	60
gcggcgctgt	ggcaggagct	ggagctgacg	cccaagccgg	ggctgggtgga	caggctcaat	120
aacggctcgc	atcgggatat	ggaccatgcc	ttgtttgtcc	gcagcattat	ggcgattacg	180
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gggctggtgg	cgcgggagct	ggcggggcgc	agcgggcagg	caacggcggg	ggagcggcag	480
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<210> 4243

<211> 984

<212> DNA

<213> Enterobacter cloacae

<400> 4243

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ctgtgcagtg	attcacctcc	gcgctggcgc	aggtcaggcc	gtcttgaacc	tgcgccgttt	120
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<210> 4244

<211> 243

<212> DNA

<213> Enterobacter cloacae

<400> 4244

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tcacctctca	ttgcgttgaa	aacgctgctg	gaaatttttc	ctgacgacgc	tggaacctg	180
cgcatttttg	ttttgctttt	tagcgacctt	ctcgggtataa	aacgcggcgc	gcggctcata	240
ttaa						243

<210> 4245

<211> 219

<212> DNA

<213> Enterobacter cloacae

<400> 4245

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gagttcggat	acgtgtttta	caatgatatg	aataagaaac	cggtcgcacg	gtctggattt	120
cagcatactc	tgctgggaaa	tggagccggt	aatgggttgt	tatcgccgta	taacgctgcg	180
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<210> 4246

<211> 1227

<212> DNA

<213> Enterobacter cloacae

<400> 4246
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ggcgagattt gcgtggtagc ggaagaggaa tgggatttct atgagcgccc gccgctgtca 180
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<210> 4247

<211> 987

<212> DNA

<213> *Enterobacter cloacae*

<400> 4247
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<210> 4248

<211> 780

<212> DNA

<213> *Enterobacter cloacae*

<400> 4248
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gccattcacg accagtttgg cgatgcggtt gaggcgctga cgtcgccgat ggcgtgcgca 180
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<210> 4249

<211> 1479

<212> DNA

<213> Enterobacter cloacae

<400> 4249

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<210> 4250

<211> 2184

<212> DNA

<213> Enterobacter cloacae

<400> 4250

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<210> 4251

<211> 708

<212> DNA

<213> Enterobacter cloacae

<400> 4251

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gccaaagcac	agcgatttat	caataccctg	gtggggctgg	tgatgtgggt	tattgccttc	660
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<210> 4252

<211> 696

<212> DNA

<213> Enterobacter cloacae

<400> 4252

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attccaggcg	tagtgaccgt	agggctattc	gccaacgctg	gcgcggatgt	ggcgctgac	660
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<210> 4253

<211> 1233

<212> DNA

<213> *Enterobacter cloacae*

<400> 4253

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<210> 4254

<211> 1122

<212> DNA

<213> *Enterobacter cloacae*

<400> 4254

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<210> 4255

<211> 924

<212> DNA

<213> *Enterobacter cloacae*

<400> 4255

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<210> 4256

<211> 387

<212> DNA

<213> Enterobacter cloacae

<400> 4256

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<210> 4257

<211> 771

<212> DNA

<213> Enterobacter cloacae

<400> 4257

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aacgagtgga	agaatcagga	agccgatttc	cagcagttcg	gcaaagacgt	gtgtaagcgc	720
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<210> 4258

<211> 948

<212> DNA

<213> Enterobacter cloacae

<400> 4258

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<210> 4259

<211> 771

<212> DNA

<213> Enterobacter cloacae

<400> 4259

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<210> 4260

<211> 801

<212> DNA

<213> Enterobacter cloacae

<400> 4260

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<210> 4261

<211> 978

<212> DNA

<213> Enterobacter cloacae

<400> 4261

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<210> 4262

<211> 1278

<212> DNA

<213> Enterobacter cloacae

<400> 4262

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<210> 4263

<211> 1644

<212> DNA

<213> Enterobacter cloacae

<400> 4263

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<210> 4264

<211> 1035

<212> DNA

<213> Enterobacter cloacae

<400> 4264

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<210> 4265

<211> 1179

<212> DNA

<213> Enterobacter cloacae

<400> 4265

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gtaaaacctg	gcgttatcac	tgggtgatgac	gtacagaaag	tgttccaggt	agctaaagaa	180
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<210> 4266

<211> 1932

<212> DNA

<213> Enterobacter cloacae

<400> 4266

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<210> 4267

<211> 1044

<212> DNA

<213> Enterobacter cloacae

<400> 4267

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<210> 4268

<211> 1614

<212> DNA

<213> Enterobacter cloacae

<400> 4268

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<210> 4269

<211> 1584

<212> DNA

<213> Enterobacter cloacae

<400> 4269

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<210> 4270

<211> 723

<212> DNA

<213> Enterobacter cloacae

<400> 4270

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<210> 4271

<211> 1953

<212> DNA

<213> Enterobacter cloacae

<400> 4271

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<210> 4272

<211> 1776

<212> DNA

<213> Enterobacter cloacae

<400> 4272

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<210> 4273

<211> 525

<212> DNA

<213> Enterobacter cloacae

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<210> 4274

<211> 1173

<212> DNA

<213> Enterobacter cloacae

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<211> 1140

<212> DNA

<213> Enterobacter cloacae

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<210> 4276

<211> 1194

<212> DNA

<213> Enterobacter cloacae

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<211> 1182

<212> DNA

<213> Enterobacter cloacae

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<212> DNA

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<210> 4279

<211> 1017

<212> DNA

<213> Enterobacter cloacae

<400> 4279

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cgcaccacgg	agtccggcgt	ttattcacac	ggcgtaaac	gcttccgcg	atttattcag	180
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gccatcgaac	agtgggatgc	gcagcgttcc	atcggaacc	tgaacgcgaa	gaagatgatg	300
gaccgtgcta	ctgagctggc	gtccgatcac	gggatcgcc	tgggtggcgt	gcgtaacgcg	360
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gatgaaaatg	tgcgcgtccg	tctgcctgga	catgaattta	ctcgctgct	ggaagaaaac	960
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<210> 4280

<211> 1359

<212> DNA

<213> Enterobacter cloacae

<400> 4280

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tgcattatct	cctatatgga	ccgcgtaaat	atagcttttg	cgatgcccgg	cggtatggat	180
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tattttgttcc	tgcaagttcc	cgggcgcaaa	attgccgtgc	acggcagcgg	taagaagttt	300
atcggtcgg	cgctgggtgc	ctgggcggtg	atctcggttc	tgaccgggct	tgtgaccaac	360
cagtatcagc	tgctgggtgc	gcgcttctta	ctcggtgtgg	cggaaggcgg	gatgctgtcc	420
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<210> 4281

<211> 921

<212> DNA

<213> Enterobacter cloacae

<400> 4281

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gagcgcttg	ttctggcaaa	aagctgcggc	ttcgattttg	tggagatgtc	ggtggatgag	180
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gcgatgctgg	agaccggcgt	ggccatcccg	tcgatgtgct	tatctgccc	tcgtcgcttc	300
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gagcaggctg	ccgccgcgca	ggtaatgctg	gcggtagaga	tcattggaca	tcggtttatg	540
aactccatca	gcaagtggaa	aaagtgggac	gacatgctcg	cctcgccgtg	gttcagcgtt	600
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gccaaagagc	cggtgctgga	gatcatccag	gcgcgcgcgt	ggattgaagc	ccgaatgcag	900
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<210> 4282

<211> 1428

<212> DNA

<213> Enterobacter cloacae

<400> 4282

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gacgcggggc	gcacggtaat	tacctgctg	atcatgaact	tcctgacctt	tttctatacc	180
gatgtatttg	gcctgacgcc	cgcgctgggt	ggcacgctgt	ttattgccct	tcgggtattt	240
gacgcgattt	ccgatccggt	gatgggcgtg	attgccgacc	gcacgcagag	ccgctggggg	300
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<210> 4283

<211> 630

<212> DNA

<213> Enterobacter cloacae

<400> 4283

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gcctttgaaa	atcgtgtgct	tgagcgtctg	aatgctggca	aaaccgtacg	aagtttctctg	180
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cgttatcaac	aggttgctcg	ctccaccatg	gtgctttccc	tgactgagct	gatttctaaa	600
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<210> 4284

<211> 951

<212> DNA

<213> Enterobacter cloacae

<220>

<221> unsure

<222> (878)

<400> 4284

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accctgcgcc	gcaacgtgga	ggatctgtcg	gaagtggccc	tgcgccagcg	cgtgctgaaa	180
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gcgctcgcac	ctgtcggttt	atgtggcatg	tatgcccgctc	gcgggtgaagt	gcaggccgcc	300
gcccgcgcag	atgccaaaag	cattccgttt	accctttcca	ccgtgtccgt	ctgcccgatt	360
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<210> 4285

<211> 2154

<212> DNA

<213> Enterobacter cloacae

<400> 4285

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<210> 4286

<211> 315

<212> DNA

<213> Enterobacter cloacae

<400> 4286

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<210> 4287

<211> 663

<212> DNA

<213> Enterobacter cloacae

<400> 4287

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aagaaaaccg	ccgggacggc	atcaccatcg	acgacagcgt	gtggggcgaaa	atccagtctc	180
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aaaaacaagg	gatccgcaat	tcgtaaaatt	gtggtgaaa	tgcccatcag	cgaattagat	660
taa						663

<210> 4288

<211> 666

<212> DNA

<213> Enterobacter cloacae

<400> 4288

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cgtggccacg	aggtcgcact	gcgcggcgcc	ggcgagatcc	agatggagct	gtttggcaac	360
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<210> 4289

<211> 2007

<212> DNA

<213> Enterobacter cloacae

<400> 4289

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<210> 4290

<211> 492

<212> DNA

<213> Enterobacter cloacae

<400> 4290

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gtcgcgtact	gcatgatctg	ctggcccact	tccgttgagc	cgggtgaacgc	cactttggcg	240
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atgacccccg	gcggcaacag	gtcgccaatc	acctccatca	gcagcagtag	cgaaagcggc	360
gttaagcgag	cgggtttcag	cacaacgcag	ttaccgcgcg	ccagcgcggg	cgccattttc	420
cagctagcca	tcagcagcgg	gaagttccac	ggaataattt	gccccaccac	gccgagcggc	480
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<210> 4291

<211> 1032

<212> DNA

<213> Enterobacter cloacae

<400> 4291

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gctcaggggc	tcatgaggaa	cgatgcaatg	cagctattta	tcggctttga	cgtgggcgga	180
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ctgggcgaac	gctggcaggg	cgcgcgtaag	gactatgagc	atttttgtctg	catcaccata	540
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gataaatacc	tacagcgatt	cagggagtg	gaggcgctcc	gggtgcccat	ccttccttgc	960
gagctgggta	accaggcggg	aaggctgggc	gcggctctggc	tggttaagca	gaagcaggcg	1020
cgcagcgctt	aa					1032

<210> 4292

<211> 1257

<212> DNA

<213> Enterobacter cloacae

<400> 4292

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cattttggcg	caggtaatat	tggctgtggc	tttatcggtg	aactgctggc	agacgcgggc	180
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aagcgtaaaag	cacaggggcg	tgaaacgcgc	ctgaacatca	tgcctgtga	aaacatgggtg	480
cgcgccacca	cgcagctgaa	aggccacggt	cttacggccg	tgcgcgacga	agataaagcc	540
tgggttgaag	cgcacgtagg	ttttgttgat	tccgcctgtg	atcgcatcgt	tccgcctgca	600
gcatccgcca	ccaacgaccc	gctggaagtg	accgtggaaa	ccttcagcga	gtggatcgtt	660
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ctggctcagc	tgattgatga	caaaggcgcg	caggctgcgc	tggcgcagat	ctccggtctg	1200
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<210> 4293

<211> 441

<212> DNA

<213> Enterobacter cloacae

<400> 4293

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cgtctggata	tgatccgccca	tcagatggcc	ggcctctccc	ttgttgattc	cgccgagaaa	180
tatgccgagc	tggaaaaaaga	gtccgtgaag	ctggaggcgg	aaattgaacg	cctgcgcgaa	240
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gcgatcacca	aaaaagagca	ggccgacatg	ggcaagctga	agaaaagcgt	ccgtggcctg	360
gtggtggtgc	acccgatgac	tgagcttggg	cgcgaaatgg	gcctgaaaga	gatgacgggt	420
ttttgtaaga	ccgcgttctg	a				441

<210> 4294

<211> 849

<212> DNA

<213> Enterobacter cloacae

<400> 4294

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aacctggatg	attccatgat	agtgatgcc	agacgcctgt	ccgaagagat	tgccactcgc	120
gtacggggcg	tgatagaaga	acaacagctg	gaagcgggca	tgagattgcc	cgccgagcgt	180
cagcttgccg	ctcagcttgg	cgtgtgcgcg	aactcactgc	gcgaggcgct	ggcgacgctg	240
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gacgactggg	ccgaacaaaa	catcgtgcag	ccgctgaaga	cgctgatgga	aaacgacccg	360
gactacagct	tcgacatcct	cgaagcgcg	caagccatcg	aaaccagcac	cgcggtggc	420
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caggcccgcg	aggcgcgtat	taccgcgtct	cctggcgaga	gtgatatttc	caggggagaac	840
aaagcatga						849

<210> 4295

<211> 825

<212> DNA

<213> Enterobacter cloacae

<400> 4295

atatccatgc	ttgaattatc	catagcactt	ccgatcaggg	ttcaaaatgg	cgggttattt	60
atctcccggg	gogtggggcg	tcatcccgca	cgaaaattat	cttcatggga	aataattttt	120
gtcgaaaaag	ggacattaac	gatccaggag	gaaaatacgc	tgtttgaggt	aaacgctggc	180
gagagtttat	tactttggcc	gaagcggcgg	catgtcggcg	tggaagattt	tccgggcgat	240
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acgccgctgt	cgattgagca	acactgtagc	gtgcgggato	cgcaatatgt	tattgcttta	360
ttccgtcagt	ttttaagcga	gcaggaaaaa	ttacagcgta	gccaggcgct	ggagataatc	420
ttgctgttaa	ttttgcagca	gatatcgctc	tcgccgggat	atgaagataa	agcggatgat	480
gcgggcgcag	caatggcgtg	gaaggccaag	cagcttatcc	gcacgcactt	tcatttgccc	540
ctgtccactt	cgcagctggc	aaaagagctg	cactgcaacg	cagattacct	ggggcgggta	600
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tttaatgacg	tgggttattt	ccggcaataa	ttctcaaaac	ataccgggtt	aacgcccgcc	780
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<210> 4296

<211> 267

<212> DNA

<213> Enterobacter cloacae

<400> 4296

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atcatcgccg	ggccgatgcc	gccaggcgaa	aggtcgataa	tgccgttcac	gttggtaatg	120
gcggtgatga	ttttctcggt	agcaatgata	atgccgcaac	ggctgcccgg	caggcccagc	180
ttggagaggc	tcatgcagag	gatgatattc	gggttccata	gcggacgcgc	ttcgctgaag	240
atgatccccg	ggaacgggtac	gccatag				267

<210> 4297

<211> 891

<212> DNA

<213> Enterobacter cloacae

<400> 4297

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gacctaata	tatcgactcc	cattcgacga	tatggggcgc	cgatactcat	gttactcacc	120
atggcatttt	caggtgaggt	gottgcaaag	acgcacacgg	atacaacgag	taagaaagcc	180
cacgtaataa	agacgacaag	cagtaaggtt	agcagtaaac	aagagtattc	tcgcaatagt	240
gcaaagagta	gttcacttcc	tgatttgcga	aaataccctt	ccgggacacc	aaggaaaaaa	300
gcgtttctcc	ggacggtaat	gccttacatt	aaaagccaaa	atgccgcgat	tactgcggat	360
cgtaactggc	tgatctccaa	acagtaacga	agccgctggt	cgccgtctga	gcgcactcgc	420
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tggaactcac	tgtagaacg	tgtggacatc	attccaggca	gtatggtcgc	gacaatggcc	540
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atgaaatgcg	taaaaggctc	ttgtactaac	gcgcccgcca	aggtgaaggg	ctattcacag	660
tttgaatcgg	tgaaagattc	cgtgaatgcc	tacgtggtga	acctgaacac	tcaccgggcc	720
tattcctcgt	tcgtaagtc	acgcgctcag	ctgcgtaagg	cggatcagga	agtgaaggcc	780
acggcgatga	tcataaagct	gaaaggttat	tcactcagg	gacagcgta	taacaattac	840
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<210> 4298

<211> 645

<212> DNA

<213> Enterobacter cloacae

<400> 4298

gaacatgacg	cgagatttga	agctggcctg	atggaaagct	ggctgatacc	ggccgagccg	60
gtcacctttg	ttgaggaaat	caaaaaaagc	cgctttatca	cgctgttggc	gcataccgac	120
ggcgtggagg	cggcgaaggc	gttcgtcgag	tcgctccgcg	cgcagcacc	ggatgcccg	180
catcactgtg	tggcgtgggt	cgcaggcccg	ccagacgact	cacagcagct	cggattttct	240
gacgacggtg	aaccggcggg	tacggccgga	aaacogatgc	tctcccagtt	gatgggcagc	300
ggcgtgggtg	aaatcaccgc	cgctcgtggtc	cgctactacg	ggggcatttt	gttaggcacc	360

ggagggctgg	ttaaagccta	cggaggtggt	gtccagcagg	cgcttaatct	tctgataaca	420
acccgcaaaa	cgccacttac	ggaatatact	ttgttatgcg	attacgcccc	gctatcgggt	480
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gtgcaattac	gcgtggcgct	tcctcaggcg	gaactggctg	ctttttcagc	aaaactcgct	600
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<210> 4299

<211> 663

<212> DNA

<213> Enterobacter cloacae

<400> 4299

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tcgccatggc	agcccgatat	ctgttctgtc	tttgctggcg	cgtcgcgtta	cccgcgttac	480
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acgcgtaaaag	aagtgggttta	taccgactgg	gctcagggtcg	ccagttttgc	ccgtgaaatt	600
gcgcatttta	cggacgatgc	gcgggtcgtc	ttcacacgag	tgccagtgcc	gcgctatggt	660
aag						663

<210> 4300

<211> 606

<212> DNA

<213> Enterobacter cloacae

<400> 4300

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gatggcacag	aaatctacgc	cggcgatggt	aacgcggttt	ctaacttcct	gatgggttat	600
aactga						606

<210> 4301

<211> 705

<212> DNA

<213> Enterobacter cloacae

<400> 4301

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attcaatata	cgggcgctcc	gctgcccaca	gacgtggaat	ctgtattctg	gctcgatatt	360
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ccaggggaaa	cccgatgaatg	gcctgtgtcc	gcctccgggg	gcgtaagctg	gtcggctatt	660
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<210> 4302
 <211> 612
 <212> DNA
 <213> Enterobacter cloacae

<400> 4302
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 gttgcgcagc acaacccgcg ggggaaagtc ccggcgctgg taacggacga gggcgactac 180
 ttggtttgatt ccccgatcat tgcggagtag atcgagctgc ttggcggtgc gccagccatg 240
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 ccaaaggcgt ga 612

<210> 4303
 <211> 1866
 <212> DNA
 <213> Enterobacter cloacae

<400> 4303
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<210> 4304
 <211> 879
 <212> DNA

<213> Enterobacter cloacae

<400> 4304

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<210> 4305

<211> 459

<212> DNA

<213> Enterobacter cloacae

<400> 4305

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<210> 4306

<211> 1518

<212> DNA

<213> Enterobacter cloacae

<400> 4306

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<210> 4307

<211> 939

<212> DNA

<213> Enterobacter cloacae

<400> 4307

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<210> 4308

<211> 2079

<212> DNA

<213> Enterobacter cloacae

<400> 4308

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<210> 4309

<211> 1362

<212> DNA

<213> Enterobacter cloacae

<400> 4309

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<210> 4310

<211> 2544

<212> DNA

<213> Enterobacter cloacae

<400> 4310

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<210> 4311

<211> 1104

<212> DNA

<213> Enterobacter cloacae

<400> 4311

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<210> 4312

<211> 1644

<212> DNA

<213> Enterobacter cloacae

<400> 4312

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<210> 4313

<211> 1641

<212> DNA

<213> Enterobacter cloacae

<400> 4313

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<210> 4314

<211> 267

<212> DNA

<213> Enterobacter cloacae

<400> 4314

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gatgccgcca	ggcgaaaaggc	tgataatgcc	gttcattgttg	gtaatggcgg	tgatgatttt	180
ctcgttagca	atgataatgc	cgcaacggct	gcccggcagg	cccagcttgg	agaggctcat	240
gcagaggatg	atattcgggt	tccatag				267

<210> 4315

<211> 369

<212> DNA

<213> Enterobacter cloacae

<400> 4315

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<210> 4316

<211> 1410

<212> DNA

<213> Enterobacter cloacae

<400> 4316

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gctgaacagc	atcagcttgc	gccgcagcat	cagagcggcc	atcaggagct	gctggaaaac	1380
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<210> 4317

<211> 1473

<212> DNA

<213> Enterobacter cloacae

<400> 4317

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<210> 4318

<211> 297

<212> DNA

<213> Enterobacter cloacae

<400> 4318

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gcgttgctgc	gtcgtctgtg	cgaagccaac	gagccggagg	agaaagcggg	acctaaggac	240
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<210> 4319

<211> 516

<212> DNA

<213> Enterobacter cloacae

<400> 4319

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<210> 4320

<211> 702

<212> DNA

<213> *Enterobacter cloacae*

<400> 4320

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catatctcga	acctgcgcgc	taagctgccc	gagcgtaaag	acggtcaccc	ctggttcaaa	660
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<210> 4321

<211> 1020

<212> DNA

<213> *Enterobacter cloacae*

<400> 4321

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<210> 4322

<211> 1149

<212> DNA

<213> *Enterobacter cloacae*

<400> 4322

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tggggcatcg	gtaatatcaa	ctacggcctc	accatgcgct	acctcggcat	gtcgatgggg	420
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<210> 4323

<211> 591

<212> DNA

<213> Enterobacter cloacae

<400> 4323

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<210> 4324

<211> 2463

<212> DNA

<213> Enterobacter cloacae

<400> 4324

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taa						2463

<210> 4325

<211> 915

<212> DNA

<213> Enterobacter cloacae

<400> 4325

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<210> 4326

<211> 879

<212> DNA

<213> Enterobacter cloacae

<400> 4326

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<210> 4327

<211> 2037

<212> DNA

<213> Enterobacter cloacae

<400> 4327

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<210> 4328

<211> 1425

<212> DNA

<213> Enterobacter cloacae

<400> 4328

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<210> 4329

<211> 783

<212> DNA

<213> Enterobacter cloacae

<400> 4329

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<210> 4330

<211> 1455

<212> DNA

<213> Enterobacter cloacae

<400> 4330

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<210> 4331

<211> 927
 <212> DNA
 <213> *Enterobacter cloacae*

<400> 4331
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 tataccgtcg ggacgcgtcc ttaecgggtat attgggtctgg gcgacatctc cgtgctgggtg 480
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 aacctgcgcg acatcgacag cgaccgcgag aacggtaaaa acacgctggc cgtgcgtctg 660
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 ccgctgctga ttaagcaggc ccgctatgtc atgcgtgaac tcagcccggc cgtatgcc 840
 ccgatgctgg aacgtacggt aaaaggcgcg ttactgacta acctgctgtt cgtcatcggg 900
 attgtcttaa gccagacgct gagtttag 927

<210> 4332
 <211> 873
 <212> DNA
 <213> *Enterobacter cloacae*

<400> 4332
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 ctgaaagtgg cgggtgccag ttttggtcag tgggaaatca gtattatctg gggctcgggc 180
 gtggcgatgg ccatctacct gaccgcaggg gtttcggcg cacatcttaa cccggcggtg 240
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 tcgcaatttg ccggcgccct ttgcgcagcg gcgttagttt acgggcttta ttacaatctt 360
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 gcaggcattt tctcaacgta tccgaatccg catatcaatt ttgtgcaggc gttcgcagtt 480
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 ggcatctcgc gcggcccgct ggcaccactt ctgattggcc ttctgattgc ggtgattggc 600
 gcatccatgg gtccgctgac cgggttttgc atgaatccgg cgcgtgacct gggtcacaaa 660
 accttcgcct tctttgcggg atggggcgat gtgccttca cgggcggcaa agacattcct 720
 tacttcctgg ttccgctgtt cgggccaaat gtagggcgcg cgctgggcgc attcggctat 780
 cgcaaattaa ttggctgcca cttaccgtgc gacacctgtg tggaagagga aaaagagaca 840
 attccacca cacaacaaaa agcttcgctg taa 873

<210> 4333
 <211> 1530
 <212> DNA
 <213> *Enterobacter cloacae*

<400> 4333
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 cgcgaatttg agcaaaattta tccgcgtcca ggctgggttg aacacgaccc gatggagatc 180
 tgggcgtcac aaagctccac gctggtggaa gtgctggcga aagccgacat cagttctgac 240
 cagattgccg ctatcggtat caccaaccag cgtgaaacga ctgtggtctg ggagcgcgaa 300
 accggtaagc ccattctacaa cgccatcgtc tggcagtgcc gccgtacgtc agagatctgc 360
 gaacagctga agcgcgacgg gatggaagag tacgtgcgca gcgcacccgg cctggtggtt 420
 gacccctatt tctccggcac caaagtgaag tggatcctcg accacgtgga aggttcacgc 480
 gagcgcgcac gtcgtggcga gctgctcttc ggtaccgtcg atacctggct tatctggaag 540
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 aacatcaaca ctctggagtg ggatgacaag atgctggacg cgctggacat tccgcgagcg 660

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ggcatcgaaa	ccaccgagcg	caactaccgc	tacagcggct	ggaagaaagc	ggtgaaactg	1500
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<210> 4334

<211> 1026

<212> DNA

<213> Enterobacter cloacae

<400> 4334

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gccgtccacg	ccatgcgcgt	tgtgcttaat	caggttaaca	tcgacggcac	tatcgtcctc	180
ggtgaaggcg	agatcgacga	agcgccgatg	ctctacatcg	gtgaaaagg	cgggaccggc	240
aaaggcgatg	cgggtggatat	cgcggctcgac	ccgatcgaa	gcacgcgcgt	gacggcgatg	300
ggccaggcca	acgcgcctggc	ggtactggcg	gtggggcgata	agggctgctt	cctcaacgcg	360
cccgatatgt	acatggaaaa	gctgatcgtc	ggtcctggcg	ctaaaggcgc	tatcgacctt	420
agtctgccgc	tggacgccaa	cctgcgcaat	atcgctgcgg	cgtggggtaa	agcgtccagc	480
gaactcaacg	tgaccattct	ggcaaaaacg	cgccacgacg	ccaccatcgc	gtacctgcaa	540
acgcttggcg	tgcgcgtatt	tgtatttcgg	gatggcgacg	ttgcgccttc	tattctgacc	600
tgcattgctg	acagcgaaat	cgacgtgctt	tacggcatcg	gcggcgcgcc	ggaggggtgtg	660
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cgcaagggca	acatggccac	cactgaaacc	ctgctgatcc	gcggtaaata	ccgcactatt	960
cgcgcattta	agtcacattca	ttatctcgat	cgtaaagatc	cggacgtaca	gacgcacatt	1020
ctgtaa						1026

<210> 4335

<211> 774

<212> DNA

<213> Enterobacter cloacae

<400> 4335

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gtacagttct	ggaccgatgc	gctatttagc	ctacacgtgc	acgtcccggt	tcattccgttt	120
actgccgggc	agtttgccaa	actcgggctg	gatatcgacg	gtgaacgcgt	acagcgcgcc	180
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gacgtaagc	tcagcccgcg	cctcgccgcg	ctgaagccag	gcgatgaagt	gcagattgtc	300
tccgacgcgg	cgggggttctt	cgtgctggat	gaaatccccg	actgtgacac	gctctggatg	360
ctggcgaccg	gcacggccat	cggcccgat	ctttccattc	tgcaatacgg	caaagatctg	420
gagcgcttta	aaaatatcgt	gctggttcac	gcgcgcgcgt	acgcgcgaga	cctgagctat	480
ttgccgcaga	tgcaggcgct	ggaacagcga	tatggcgga	agttaaaaat	tcagacgggtg	540
gtcagccgcg	aaaccgcgac	tggctcgtaa	accggtcgcg	ttccggcggt	gattgaaagc	600
ggcgcgctgg	aagaggcggt	gggtttaccg	atgaataccg	aaaccagcca	tgtgatgctg	660
tgcggtaacc	cgcagatgg	acgcgatacg	cagcagttgc	tgaaggatac	ccggcagatg	720
acgaagcacc	ttcgccgctcg	gccggggccac	atgaccgcgg	aacactactg	gtga	774

<210> 4336
 <211> 1272
 <212> DNA
 <213> *Enterobacter cloacae*

<400> 4336
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 atgcactgct ggcaggggtga tgatgtcgcc ggtttcgaga acccgggcgg ttccctgacg 180
 ggggggtattc aggccacggg taactatcct ggcaaagcgc gcaacgccac cgaactgcgt 240
 gcgcatctgg agctggcgct gagcctgac cccggggccaa agcgccctgaa cctgcacgcc 300
 atttatctcg aatccgatga gccggctcgcg cgtaacgaaa tcaaaccgga acactttacg 360
 aactgggtgg cgtgggcgaa agccaaccgg ctgggtctgg attttaacct gtccctgcttc 420
 tcgcacccgc tgagcgcgga cgggtttacc ctgcgcatg ccaacgatga aatccgccag 480
 ttctggatcg accatgtcaa agccagccgc cgcgtctcgg cttatttttg cgagcagctt 540
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 cgactggccc cgcgtcagcg cctgctggcc gcgctggatg aagccatcag cgagaagctg 660
 gacccgggcg accacatcga cgcgctcgag agcaagctgt tcggcattgg cgcagagagc 720
 tacaccgtgg gctcaaacga gttctacatg ggttatgcc aagcccgcca gaccgcgctg 780
 tgccctggatg ccggccactt ccacccaacg gaagtcactt ccgacaagat ctccgcccgc 840
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 gaagagcaga aatccctgcc gtggcaggcg gtgtgggaga tgtactgcca gcgtcacgat 1200
 gcacctgcgg gcagccagtg gctggataac gtgcgggcgt atgagaaaga ggttcttgcc 1260
 gctcgtcagt aa 1272

<210> 4337
 <211> 927
 <212> DNA
 <213> *Enterobacter cloacae*

<400> 4337
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 cgtaacgcc aacggcattt tcaaaggaac tacagtatgc agaccatcac cacctcctgg 120
 ttctccagg gcatgatcaa agccaacctc gacgcctggc tgaagggctg ggatgagcgc 180
 aacggcggca acctgacgct acgcctggac gacgcggata tcgagccatt tgccctcgat 240
 ttccaccaga agccgcgcta tatcgccctg agccagccga tgcgcgtgct cgcacaacag 300
 ccgtttatcg tcaccggttc cgggaagttt ttccgcaacg tacagctgga cccggaagcc 360
 aacctcggcg tggatgaagg ggacagcgac ggcgcggggt accacattct ctggggactg 420
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 agcaccgagt gtctggtggt gttcccggac ggcgtcggca ttctgcgctg gatgggtgcc 660
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 gacaccgccc agaaatccgc ggaggtgctg gtgaaggctt attccatggg cggcatgaag 840
 cagaccatca cccgggaaga gctgattgcc ctgggcaaac gctttggcgt caccctgatg 900
 cagtcggcgt tagatctgta ccaataa 927

<210> 4338
 <211> 1272
 <212> DNA
 <213> *Enterobacter cloacae*

<400> 4338
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 cgtgctcggc tgtctgttcg gggcgctgtt ccttggcgct atcaacaacg cctgcgggtt 120
 gatcggcgct tccccgttct ggcagatggc gatttccggc tcggtcattg tcatecgtgt 180

gctgctgaac	gagcgcggca	acaagcgcaa	aggcaggctg	atcctgcgcg	acgcggcgct	240
ggcagctcag	aaactggcgg	tgaaccatg	agtaaaatga	tgacatctga	agagttcaaa	300
cccacttctg	cgcgggcat	cttccagcgt	ctgctgtgct	gggagggtt	cctgctggcg	360
gtgacgctgg	cggatattgt	ggtgaacgcg	ctgcctcgc	cctacttctt	caatatctgg	420
aacctctccg	acgcgacgtt	caacttcacg	gaaaaagcga	tcattgtgtt	gccgatggcg	480
atgctgatta	tgcgccggga	aattgacctg	tcgggtggct	ccaccatcgc	gctcagctcg	540
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tcgtccatcg	tcatacccat	cggcaccatg	agcctatacc	gcgggatcac	ctacatcctg	720
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<210> 4339

<211> 342

<212> DNA

<213> Enterobacter cloacae

<400> 4339

ggtccgcgag	ctgtacctgg	aggttttatg	atccgcaaa	cgtttgtgat	gcaggtaaac	60
ccggacgcgc	acgaggagta	cgcgcgtcgc	cacaacccga	tctggcctga	gctggaggcg	120
gtactgaaag	cccacggcgc	gcaccactac	gccatttacc	tgcacaaagc	ccgcaacctg	180
ctgtttgcga	cggtagagat	tgaatcggag	gagcgttgga	atgcggtggc	aaacaccgat	240
gtctgccaag	gctggtggaa	acatatggct	gacgttatgc	cgtctaacc	tgacaacagc	300
ccggtgagtg	cggcgcgtgaa	cgagggtgtt	tacctggact	ga		342

<210> 4340

<211> 930

<212> DNA

<213> Enterobacter cloacae

<400> 4340

atgagtattc	gcataatccc	gcaagatgag	ctgggggtcga	gcgagaaacg	tacggcggag	60
tatatccgc	cgttggtatt	ccccagactc	agaacctct	acaaccgcgc	cgcagagcgt	120
ctgcgcgagc	tggcagagaa	caaccgcgtg	ggcgattttc	tgcgttttgc	cgcgctggtc	180
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atcaaagaag	ccaacgaaca	gggcaagccg	ccgctggaca	ttcacgtcct	gccgcgcgac	300
aagcactggc	ataagctgct	gcattcgcgtg	attgccgagc	tgaagcccga	gatgagcggc	360
acggcgcgtg	cggtcattga	gaacctggaa	aaagcctcag	agcaagagct	ggaagagatg	420
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tgggctgcgc	tgctcgtcta	ctgggcgcaa	atggcgagcc	tgatcccagg	caaagcccgc	540
gccgaatacg	gcgaagcgcg	ccagttctgt	ccggtgtgtg	gttcaatgcc	ggtctccagc	600
atggtacaga	ttggtacgac	acaggggctg	cgctacctgc	actgcaacct	gtgtgaaacc	660
gagtggcacg	tgggtgcgcg	gaagtgcagc	aactgcgagc	agacccgcga	tctgaactac	720
tggtcgcgtg	aaaacgaaga	cgcagcgggtg	aaagccgaaa	gctgcggcga	ctgcgggact	780
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gcctcgcgtg	ttctggacgc	caaaatggag	caggagggtg	ttgcccgag	ctctatcaac	900
ccgttctctg	tcccgggtga	aggggagtaa				930

<210> 4341

<211> 954

<212> DNA

<213> Enterobacter cloacae

<400> 4341
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ctgggttcaag gatttatcgc tgcaggtcgc cctcatcgc gtcgccagac aattgaggta 120
cgacgagcag gctatatgtc cagcacggag cttgccggga agaccgaaac gcgcgttcag 180
ctggagacgc ttgttcttga ggggtcttacc attcgggtat ttccacctct caatgcgcct 240
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caacaatggc ggggtgtaat tcacggcttc ttccagttgg gtggaattag ccagtcagcg 900
cgagacatta tgcgagatat tgcctggcgc attaaccatg cggggcgaga gtga 954

<210> 4342

<211> 903

<212> DNA

<213> *Enterobacter cloacae*

<400> 4342
caggagagag gcatgtcagc aatcgcattt atcggttag gacagatggg cgcgcccatg 60
gcgaagaatc tgttgaaaca gggccaccag cttaacgtct ttgacgtaaa cccgcaggcg 120
attcaggcgc tgggtgaaaag cggcgctcgg gcggcgga cgcgcgcgca ggcagcaacg 180
gacgccgaat tctgtatcac catgctgcca aacggcgacc tggtagcag cgtcctgttc 240
ggcgagcag cgctgtgcga agggttatcc cgcgacgcgc tggtcattga tatgtccacc 300
attcaccgcg tgcaaaccca cgcgctgata cgcgacatgg ctgagcaagg cttcagcctg 360
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gcaggcggca cggcccagca ggttgagcgc gccaccccg ttttaaatggc gatgggcaat 480
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acgacatcct ggccgaacaa ggtgctgaaa ggggatcttt ctccgcctt catgatcgac 720
cttgccgata aagacctggg gatcgccctc gacgtggcca accaggtcac cgttccgatg 780
ccgctggggc cggcctcccg cgaagtttac aaccaggcac gcgcgcgcgc gcgcgggcgc 840
gaggactgga cggccattct tgaacagggt cgcgcacatcg ccgggctgaa aaaatcacac 900
tga 903

<210> 4343

<211> 1434

<212> DNA

<213> *Enterobacter cloacae*

<400> 4343
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tgccgctatg ggatgggcca ttttggtcgc aatctgatgc tgtgtattgg cagctgttac 120
ctgctgaagt ttacaccga tgaactgggc atgcggcgt tctatggcgg cattattttc 180
ctcgtcgcga agtttttcac cgcgtttacc gacatgctga ccggggtgct gctggactcc 240
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gtggcgctgg tggccacggc gcagtttatg gccaacgact ttagcctgac ggtgaaaacg 360
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<210> 4344

<211> 1431

<212> DNA

<213> Enterobacter cloacae

<400> 4344

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<210> 4345

<211> 303

<212> DNA

<213> Enterobacter cloacae

<400> 4345

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aacgaaacca	ccgagaacat	cgggtgcgcg	cgtctgcaca	ccgtgctgga	acgcctgatg	180
gaagacatct	cttatgatgc	gagcgacctt	aacgggtcaaa	gcattaccat	tgacgcagac	240
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<210> 4346

<211> 615

<212> DNA

<213> Enterobacter cloacae

<400> 4346

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ggcgaaaagg	ggctgacctt	cgcggttgaa	ccgattaagc	tggccctatc	agacgcactc	600
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<210> 4347

<211> 783

<212> DNA

<213> Enterobacter cloacae

<400> 4347

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tccctgaaaag	cagacgcctt	cgcggtgatc	gttaaagcgg	cagaagcggc	taagcaggcg	780
taa						783

<210> 4348

<211> 1434

<212> DNA

<213> Enterobacter cloacae

<400> 4348

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<210> 4349

<211> 1707

<212> DNA

<213> Enterobacter cloacae

<400> 4349

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<210> 4350

<211> 1083

<212> DNA

<213> Enterobacter cloacae

<400> 4350

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<210> 4351

<211> 1521

<212> DNA

<213> Enterobacter cloacae

<400> 4351

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<210> 4352

<211> 1005

<212> DNA

<213> Enterobacter cloacae

<400> 4352

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<210> 4353
 <211> 1164
 <212> DNA
 <213> Enterobacter cloacae

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 gaagcggcca gcatgtcagc cattcaggcg attcgcgacc tgagcgcccg ggtcggcatt 1020
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 gctctcgccg acccgtgcgc gccgtgtaac ccgcgcaccg ccagccgcga tgaggtccgc 1140
 gagctgtacc tggaggcttt atga 1164

<210> 4354
 <211> 666
 <212> DNA
 <213> Enterobacter cloacae

<400> 4354
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 ttcccgtgt gggtgccgtt tgcctctccc ctcaaggctgc tggcaggcgc atccgagttt 180
 atgtttattg gcatcgtggc aagcggcggc aatccgctgg cagcggccgc ggccggttta 240
 ctggtaaaacg cagcccatgt gccgttcggc gtaacgggtc gtgacctggt gggcaagcgc 300
 ggctgagct ttctgggctg tcatattatg aacgatgaaa gcgtggtgtt cggcctttcg 360
 caaaaaaccg ccgagcagcg taaagcggcc tactggctgt gcggcctggg cgtggcaatt 420
 atctggccgc tgggggcggt actggggcg atggctggca agctgctgcc agaccggaa 480
 accatcgggc tggacgcggt gttcccgcg atcctgctgg cgttagtggt gccggcattt 540
 aaaaaccgta ccacgctgat ccgcgcctgt agcggcgcag tgttgctgct ggccgcgta 600
 ccgtttgcgc cgggtgggtct gccgggtactg ctctctttgc tgggccttgc cgcgaggaaa 660
 aaataa 666

<210> 4355
 <211> 657
 <212> DNA
 <213> Enterobacter cloacae

<400> 4355
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 gaacgtatca accactgggt caccgccttc tgcttcatgc tggcggcgat aagcgggctg 120
 gggttcttct tcccgctctt caactggctg atgcagatca tggggacacc acagctggcg 180
 cgtatactgc acccgtttgt ggcgctcatc atgttcgcgt cgttcatcat catgttttct 240
 cgttactggc accataacct aatcaatcgg gatgatattt tttgggcgaa gaatattcgt 300
 aagatcgtcg tcaacgagga agtaggtgat actggcgctt ataacttcgg ccagaaatgc 360
 gtattctggg cggcgattat ctctctgggt ctgttgctgg tgagcggcgt gatcatctgg 420
 cgtccgtact ttgcgcctgc tttctcaatc ccgggtgatcc gatttgogct aatgctgcat 480
 tcatttgccg cagtggcggt aattgtgggt atcatggtgc atatttaacc cgccttttgg 540

gtgaaaggca	ccattaccgc	gatggtggaa	ggctgggtca	ccaaaacgtg	ggcgaagaaa	600
catcacccgc	gctggtaccg	tgaagtcgcg	cagaaaacagg	aaaagtcatc	tgaatga	657

<210> 4356

<211> 1287

<212> DNA

<213> Enterobacter cloacae

<400> 4356

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accctgagcc	ataaccgctg	gctcgaacaa	gagaccgacc	gcattctcga	tttcggtaaa	120
aacgcgcgcg	taccgaccgg	ctttggctgg	ctgggcaata	acgggcagggt	gcgtagcgtat	180
atgggcacac	atctgtggat	caccgcccgc	atgctgcatg	tgtacgcgggt	ggcggcgaac	240
atggggcgcc	ccggcgcgta	cgccctgggt	gagcacggca	ttaatgcctt	gaacgggtccg	300
ctgcgcgaca	agcagcacgg	cggctgggtac	gcctgcgtaa	acgatgaagg	cgtgattgat	360
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cacgacgtgg	cgcgcaaagg	ggagtaccgc	gttaacgagc	atcttgacac	caactggaac	720
ccgatccgog	actataacat	cgataacccc	gccaccgctt	tccgcgccta	tggcggcacg	780
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gattactgca	tcaagtatct	gatggattac	gaaaacggat	cctggtggca	ggagctggac	1140
accaacaacg	aagtgaccac	caaagtctgg	gacggcaagc	aggatattta	ccatctgctg	1200
cactgcctgg	tgatccccgc	cctgcgcgtg	gcacccgggt	tagcgcctgc	cgtcgcgcgc	1260
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<210> 4357

<211> 1050

<212> DNA

<213> Enterobacter cloacae

<400> 4357

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gcccaaagcg	ccagaaaaact	gtttggcagc	ccgctgcggg	aactgctgag	ctattttctcg	180
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gtgacgctgg	tgattgacgg	acgctgcgat	atcttgctcc	tcacgcgaca	gcgcctgccca	300
gatggcatga	ttctgctgga	aatggcgccg	atggataacc	aacgtcgtct	cagccaggag	360
cagcttcagc	atgcgcagca	gattgcggcg	cgcgacctgg	tgcgcgggct	ggcccatgag	420
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gacctgccc	tggcgagta	taccaacgtc	attattgagc	aggcggaacg	tctgcgtaac	540
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aaggctcgcg	agcgggtggt	gaaactcgtc	tctatggagc	tgcgggataa	cgtcacgctg	660
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aatttgattg	accaaacctc	cggcaaaatt	gaatttacca	gttggccggg	acataccgag	1020
ttttcggttt	tctgcgcgat	taaaaaataa				1050

<210> 4358

<211> 1485

<212> DNA

<213> Enterobacter cloacae

<400> 4358
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 gaccagaacg ggccgcgcta tacgaacgcg acaccaacgg aaggagtgg catgtctgta 120
 ccatctatcg actgggattt ggccctgacg cagaaatata actattccgg gccgcgttat 180
 acctcatacc ccaccgcgct ggagttttct gacgctttcg gcgaggcgga ttttcagcat 240
 gctgtggcgc gctatcccga gcgcccgctg tcgctctacg tccatattcc attctgccat 300
 aagctctgct acttctgcgg ctgcaataaa atcgttaccc gccagcagca caaagccgat 360
 caatacctcg atgcgctcga acaggaaatt ctgcaccgcg caccgctgtt taaagggcgt 420
 cacgttagcc agcttcaact gggcgggtgg acgccaacct atctcaataa agcgcagatc 480
 agccgcctga tggcgtgct gcgcgacaat ttcagtttta acgacgacgc cgaaatttcg 540
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 ttcaaccgcc tgagtatggg cgtacaggac ttcaataaag aagtacagcg cctggtaaac 660
 cgcgagcagg acgaagcgtt tatcttttgc ttactcaacc atgcgcgtga aatcggcttt 720
 acctcaacga atatagacct gatttacggc ctgccgaagc agacgccgga gagcttcgcc 780
 tacacgctta aacgcgtggc tgagcttaac ccggaccgct tgagcgtctt taattacggc 840
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 ctgaaactcc ttgcgcgcgt ggccgaaggac gggctgggtg atgtgtcgga aagcgcgggtg 1380
 gtcgtcacgc cgaaaggacg tctgttgatt cgtaatatct gcattgtgctt cgatgcctat 1440
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<210> 4359

<211> 969

<212> DNA

<213> Enterobacter cloacae

<400> 4359
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 agatgggcta aagtttccac ggcaactact cccgacgcgt atgcgcgggg taaaacaaat 120
 caattaaacg ctgtagtaca gttcgaactc aaccgggtgc ggcgtcatgc gaacgcggtc 180
 gttttcttca gtacgcagcg cgtgtaagc gtcgataget tcacgggtga acacgcggcc 240
 agcggtcagg aactcgcggt ctgcgtccag cgttgcagg gcttcttcca gagagccggc 300
 aacctgtggg atctctttcg cttctttctg cggcagggtc tacaggtttt tgtccatggc 360
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 gcacaggtat gggttagccg ccgggtccgg gaagcgcact tcgatacgac gcgctttcgg 480
 agacgcaacc accgggatac ggatagaagc agaacggtta cgggcagagt acgccagcat 540
 cacgggtgct tcgtagcctg gaaccagacg cttgtaggag ttctgtggcg ggttcgccag 600
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 gcagtgcatt ccggaaccgt tgtcgccaaa cattgggttt ggcatgaagg tcgcggtttt 780
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 tttggtcatg gtgttgaagc gggtagcgat ctcgcttctg ccagccgttg ccaacttcgtg 900
 gtgggtgcgt tcaacaacca ggcccatctc ttccatgacg agacacatgg tagaacggat 960
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<210> 4360

<211> 570

<212> DNA

<213> Enterobacter cloacae

<400> 4360
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 accaccttcg tacttgggtg aagagttcca tgcgccttcg atgtcatcga tagcgacgtg 120
 ggagccagaa atggaagcac caaacggat gtcgtcgaac aggaagaact ctggctcttg 180

cccgaacaga	acggtgtctg	cgatgccggt	agagcgcagg	tactcttcag	cgcgttttgc	240
gatggagcgt	gggtcacggt	catagccttg	cagcgtgcc	ggttccagaa	tatcgagcgc	300
gatgatcagc	gtaggttctt	cgtagaacgg	gtcaatgagc	gcagtgggtg	catctggcat	360
cagaaccatg	tcggattcgt	taatgccttt	ccagccgcc	atggaggagc	cgtcaaacat	420
tttgccctct	tcaaagaatt	cggcggttac	ctgatgagca	gggatcgtga	cgtgctgttc	480
tttaccttta	gtatcggtga	agcgcagatc	aacaaacttc	acttcatggt	cgttcagcat	540
cgtcaaaacg	tggttcagcg	acatacttaa				570

<210> 4361

<211> 654

<212> DNA

<213> Enterobacter cloacae

<400> 4361

ctaaagtttc	tctttccgc	tacagttact	tctccacggc	gaaaggagat	aaacatgctt	60
tatatctttg	acttaggaaa	tgtaatcgtc	gatatcgatt	ttaaccgggt	gttggcgca	120
tggagcgatt	ttagcogtgt	tccgctggcg	acgttaaagc	agaatttcgc	gatgggtgag	180
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gttgctcgtc	tgtctaatac	taaccgcctg	cataccacct	tctggccgga	tgaatacccg	420
gaaattcacg	cggcggcaga	taaagtgtat	ctctcccagg	agatggggat	gcgtaaacct	480
gaggcgcgcg	tctatcaggc	agtattgcag	gaagaaggat	tcacggcagc	ggatgcggtc	540
ttttttgacg	acaacgccga	taatatagaa	ggggctaate	agttaggtat	cacctccatt	600
ctggtgaccg	gaaaagagac	gataccgaac	tactttgcga	agcagttatg	ctaa	654

<210> 4362

<211> 1092

<212> DNA

<213> Enterobacter cloacae

<400> 4362

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ttcgctgggt	aacgatggcc	cgcacacatt	ctggctccag	gtatgagcca	actggcggt	120
tggccgcggg	taacaagaga	gagtacagct	atgtatcacc	ttcgagtagc	gcaaaccggaa	180
gaagaattag	acgcttatta	ccattttccgc	tgggaaatgc	tgcgcaaacc	actgcatcaa	240
ccgaaaggct	ctgaacgcga	cgcctgggac	gcgatggcgc	accaccagat	ggtggttgat	300
gaagagggca	acctcgttgc	cgtgggacgt	ctgtacatca	atgccgacaa	cgaagcttca	360
atccgcttta	tggccgttca	tccctccgtg	caggacaaag	gccttggaaac	gctgatggca	420
atgacgctgg	aatccgttgc	cgcgcaggaa	ggggccaagc	gcgtcacctg	tagcgccgc	480
gaagatgccg	ttgagttctt	tgccaagctt	ggtttcgtga	atcaggggga	aatcaccgcc	540
ccgcaaacta	cgcgattcgc	tacttttttg	atgatcaaac	ccatcgccac	gctggacgat	600
attctccatc	gcgccgactg	gtgcgggcag	ctccagcagg	cgtgggtatc	gcacataccg	660
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atgccggaaa	cgggcaacca	gaacccgcac	cataccctgt	ttgcgggcag	cctgttttca	780
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aaagcacgcg	tacagatgca	ggttgagctg	ttcggcgatg	aaacgccagg	cgcgggtgtt	1020
gaaggcacct	atatcgttct	gcctgcgaag	ccgtatggcg	cgtatgaaga	gggtgggaac	1080
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<210> 4363

<211> 1401

<212> DNA

<213> Enterobacter cloacae

<400> 4363

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ataatgaaca	caacaacctg	taccacaaa	gacaacccta	acttctgggt	cttcgggctg	180

tttttttttt	tctactttct	catcatggcc	acctgttttc	cgttcctgcc	gatctggctg	240
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tccgccattg	ccttccagcc	ggtgctgggg	gtcatttcgg	acaagctggg	gctgaaaaaa	360
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gtgtcggcgt	ttacgctgag	tggcaggcgg	gagattgctg	ctaccgctgg	ggcagcagcg	1380
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<210> 4364

<211> 879

<212> DNA

<213> Enterobacter cloacae

<400> 4364

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gatttttttg	cctccgcgag	tcaggccgtc	gcgggtggcg	accgctaccc	gcaaaacgtc	120
ttcgccgagc	acacccacga	gtttttgcgag	ctgggtgctgg	tgtggcgggg	caatggcctg	180
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aagagttttc	tgctggacaa	attctgcgag	caggagcagt	gcagcgagcg	cgcgctgcgc	660
cagcagttcc	gcaccagac	ggggatgacg	gtaaaccaact	atctgcgcca	gctgcgcctc	720
tgccacgccc	agtacctgtt	acagcatacg	gagctgatgg	tgagtgaagt	ggcgatgcgc	780
tgcggctttg	aggacagtaa	ctacttctcg	gtgggtgttta	accgtgaggt	ggggatgacg	840
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<210> 4365

<211> 654

<212> DNA

<213> Enterobacter cloacae

<400> 4365

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tatgcctacg	acgcactgga	accgcatttc	gacaagcaga	cgatggaaat	ccatcacact	120
aaacaccacc	agacctacgt	gaacaacgcg	aatgctgcgc	tggaaagcct	gccagagttc	180
gctaactctgc	ctgttgaaag	gctgatcacc	aaactggacc	agctgccagc	agacaagaaa	240
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tgggacgtgg	tgaactggga	cgaagcagca	gcgcgtttcg	ccgctaaaaa	ataa	654

<210> 4366
 <211> 705
 <212> DNA
 <213> Enterobacter cloacae

<400> 4366
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 gagctgacgt tgaccgatct cgggcttcg ggtgaccagc aggctgaaaa gaaaatccac 180
 ggccggcccg atcgcgcgct gtgccactat ccgcgcgagc actatcagca ctggaaaacc 240
 gaatttcctg aacaggctga cctcttcgtc gccccgcgt ttggcgaaaa tctctcaacg 300
 gaggggctga cggagaagaa cgtctttatc ggcatatatt accgctgggg cgatgctttg 360
 attcagggtca cccagccgcg ctccaccgtgc tttaagctta attaccattt cggcattcag 420
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 gcgggacagg ttccggcgga tgcgcgcgtt gagctggctt cgcgtttgag tgagggtgtcg 540
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 ctgctgtcag cggcgggatt atccaccagc tggaccagaa cgatgcagaa gcggcgagata 660
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<210> 4367
 <211> 603
 <212> DNA
 <213> Enterobacter cloacae

<400> 4367
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 aacggttcct cagcagaggg cgcaacgcag cacagcagcc aaagccatat gtttgacggc 240
 ataagtttaa ccgaacatca gcgtcaacag atgcgagatc tgatgcagag ggcaagacac 300
 gaccagcccc ctgttaaatg tagcgaaatg gagacaatgc atgcgcctgt caccgcagaa 360
 aattttgacg aaagcgctgt acgcgcctcag gccgaaaacc tggcgcgagg acaggttgcc 420
 cgccaggtaa agatggcgaa ggttcgcaac cagatgttcc acctgctaac gcccgagcag 480
 caagcggttt tgaataccaa acatcagcaa cgtatgaacc agttgcgtga ggttgacagg 540
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 taa 603

<210> 4368
 <211> 909
 <212> DNA
 <213> Enterobacter cloacae

<400> 4368
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 tacaccggat cggtcagtat tctggcgggc ctggtggact cactggtgga tattgccgcc 180
 tcgctgacca acctgctggt ggtgcgctac tcgctgcaac cggcggtatga agagcatacg 240
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 gacaacctgc cactggttca ggcgcatatg gtcgctgaac aggtggagca ggcgattttg 840
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 gcgttttga 909

<210> 4369
 <211> 282
 <212> DNA
 <213> Enterobacter cloacae

<400> 4369
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 ggtgaaacct tgaccgccga agagcagtcg tgggtggatg ccaaactgga tcgcatcgac 180
 gagctgatgc agaagctggg tctgtcttac gatgacgaag acgacgaaga agaagacgaa 240
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<210> 4370
 <211> 948
 <212> DNA
 <213> Enterobacter cloacae

<400> 4370
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 gaaggtggga aatatgtcgc aaaagactat acggaagtgg gcggcgccc ggcggaacg 180
 gcggcagtg gacgcgcgaa actgggcgcg gaagtggatt ttattggccg ggtgggggac 240
 gacgataccg gcagacggct gctcgcgag ctggaatccc tgggggtgaa taccgcctac 300
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 gaaatcgact tctcgcagtg ggatattgtc ttagccgatg tgcgctggca tgacggggca 480
 aaacaggcat ttaccctggc ccgtcagcag ggcgtaacga cgttgcttga tgcggatgtc 540
 accccgcagg acatcgcgga gctgacgcc ctaagcgacc acgcggcctt ctccgcgccg 600
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 ctacaaaatg gacatgtgta tgttacgcag ggcgagacg gctgcttctg gctggaaaac 720
 ggcgattgt gtcacagcc cggttttgag gtgaacgtgg tggataccac cggggcgggc 780
 gacgtgttcc acggtgcgct ggcggtcagc ctggggcaga aattaccgcg cgcagacgcc 840
 gtgcgttttg ccagcgccgt cgcagcactg aaatgcacaa agcccgccgg gcgcgcgggt 900
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<210> 4371
 <211> 462
 <212> DNA
 <213> Enterobacter cloacae

<400> 4371
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 gtcgaaaaag atgacgacga acaaaaagct aaccgcttat gtgagcgcgt gctgggctac 180
 cgcattttca gcgatgcgga aggcaagatg aacctgaacg ttcagcaggc gggcggcagc 240
 gtgctggtgg tttccagtt tacgttggct gcggataccg aacgcggcat gcggccgagt 300
 ttttcgaagg gcgcggcacc ggagcgcgca gaagctctat acgagtactt tggtgagcgc 360
 tgtcgccaac aggacatgaa tacacaaaac ggacgattcg ctgcggatat gcaggtttcg 420
 ctggtgaacg atggccccgt cacattctgg ctccaggtat ga 462

<210> 4372
 <211> 1062
 <212> DNA
 <213> Enterobacter cloacae

<400> 4372
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 cgcgccctca acggatatga cgacgtttct gctgagacgc gcgcccgcgt ggaagcggag 180
 gccagcgcgc gtggctaccg accaaatacc tttgcccgtc gcctgaagat gggcaaaatc 240
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aaacagattg	cogatatggt	gcgccagctg	attaacggcg	acgacattga	cacccttcag	1020
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<210> 4373

<211> 2229

<212> DNA

<213> Enterobacter cloacae

<400> 4373

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atgcgaagc	tgccggcgtg	gatggacgcg	ccgcaaacgg	taagcgggtga	atggctgatg	2160
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<210> 4374

<211> 1095

<212> DNA

<213> Enterobacter cloacae

<400> 4374

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tcagaggtag	tcatgattaa	gaaaatcggg	gtgttgacaa	gcggcgggta	tgccgccggc	180
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cttcagggg	acggcggcgg	ctgcgtcggt	atccagaacg	agaaactggg	tcaccatgac	1020
atcatcgatg	ccattgaaaa	catgaagcgt	ccgttcaaa	gtgactggct	ggactgcgcg	1080
aaaaaactgt	actga					1095

<210> 4375

<211> 1050

<212> DNA

<213> Enterobacter cloacae

<400> 4375

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gacattcagt	tactgaatgt	gtcgtacgat	ccgacgcgtg	aactgtacga	ccagtacaac	180
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<210> 4376

<211> 819

<212> DNA

<213> Enterobacter cloacae

<400> 4376

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gcaggcggcg	tgtactggat	gaaagcgggt	aatccgaatg	cgttgcgta	tatcgttctc	180
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<210> 4377

<211> 1833

<212> DNA

<213> Enterobacter cloacae

<400> 4377

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<210> 4378

<211> 912

<212> DNA

<213> Enterobacter cloacae

<400> 4378

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cgggcgattg	ccgaagcgat	tgccgactat	attcccgaac	gttcgacctt	ttttatcacc	420
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<210> 4379

<211> 951

<212> DNA

<213> *Enterobacter cloacae*

<400> 4379

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<210> 4380

<211> 912

<212> DNA

<213> *Enterobacter cloacae*

<400> 4380

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<210> 4381

<211> 279

<212> DNA

<213> *Enterobacter cloacae*

<400> 4381

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tctttcgctg	cgcagacagt	gaccgcatcc	gcctctaccc	tggatgggtg	agaagctaaa	180
atcgctgcac	aggctcagga	agcgggcgcg	tcctcctaca	aaattaccca	ggcattcacc	240
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<210> 4382

<211> 642

<212> DNA

<213> Enterobacter cloacae

<400> 4382

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gagcatatta	togtgaccca	ggggcgggcg	atggtcggtc	tgatcgacgc	ggcggaagaa	540
ctcgcccg	gagattacat	ttgtaccct	gctgaccagc	cgcatactct	taaggcgctg	600
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<210> 4383

<211> 864

<212> DNA

<213> Enterobacter cloacae

<400> 4383

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catcatgatt	ttcatgaaat	tgtgattggt	gagcacggaa	cgggcataca	cgtgtttaac	180
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<210> 4384

<211> 1326

<212> DNA

<213> Enterobacter cloacae

<400> 4384

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<210> 4385

<211> 501

<212> DNA

<213> Enterobacter cloacae

<400> 4385

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gttgtcgaa	cgtggcgctt	tatcggcacc	cagagcgaga	acaaatatgg	aaaagatacc	480
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<210> 4386

<211> 273

<212> DNA

<213> Enterobacter cloacae

<400> 4386

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ctgaaaagag	agaacaactc	cctgtctcag	gaagttcaga	acgctcagca	cagccgcgaa	180
gaaatggagc	gcgaaaacaa	ccagctgcgc	gaacagcata	acggctggca	agaacgcttg	240
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<210> 4387

<211> 3219

<212> DNA

<213> Enterobacter cloacae

<400> 4387

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<210> 4388

<211> 855

<212> DNA

<213> Enterobacter cloacae

<400> 4388

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<210> 4389

<211> 903

<212> DNA

<213> Enterobacter cloacae

<400> 4389

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<210> 4390

<211> 1308

<212> DNA

<213> Enterobacter cloacae

<220>

<221> unsure

<222> (672)

<400> 4390

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 gcgaccatcg tcggcgctcg cctgagcctg attttcaagc tgatctcgtt gatccgcccg 1260
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<210> 4391

<211> 744
 <212> DNA
 <213> *Enterobacter cloacae*

<400> 4391
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 aaccctctt tactggtctg actgcaaaac gtgctgcgcc aggaacacag cggatacatc 180
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 gaagacgtag ggcgcttctt gctcaagcgt ctggatcggg agatgcgcac gctctttgat 660
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 gtgaaagata ttcttaagct ttga 744

<210> 4392
 <211> 744
 <212> DNA
 <213> *Enterobacter cloacae*

<400> 4392
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 aacaagtta accacttcat tatgacaaa ctggccgaag ccggtatccc gactcagatg 240
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 tgcgtgatcc gtaaccgtgc cgcaggctcc ctggtgaagc gtctgggcat tgaagaaggt 360
 atcgaaactga atccaccgtt gttcgatctg ttctgaaaa acgacgccat gcatgaccgc 420
 atggtcaacg aatcctactg tgaaaccttc ggctgggtta gcaaagagaa cctggcgccg 480
 atgcaggaac tgacctacaa agccaacgac gtgctgaaaa agctgtttga tgacgcgggc 540
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 gacgaattct ctcgggacgg cagccgctg tgggacaaa agacgctgga taaaatggac 660
 aaagaccgtt tccgccagag tctgggtggc gtggtcgaag cgtacgaagc ggttgctcac 720
 cgtttaggcg ttaagctcga ctaa 744

<210> 4393
 <211> 882
 <212> DNA
 <213> *Enterobacter cloacae*

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 ggcggtatta ttctgctggt cgtcgtgctg gtggcgggct actacggtgt cgacctgacc 180
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 agctttaccc atggcacctc agagcagcgc tacagctggt ttaagcgtgg cttcgacagc 840
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<210> 4394
 <211> 804
 <212> DNA
 <213> Enterobacter cloacae

<400> 4394
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 ctttttgttg tgcaaagccc ggatacgcct gctaaacagc tcttgccttc gtttcattggc 180
 gtggcgacaa atgcccgtcaa tatgggacag attggcagct ggtttgcacc cgttttccca 240
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 catgcagtag ctgcccagga gacgtgatg cgcgagggtg gagatgtgac gctggatatt 660
 gtagacgatc tggggcatgc cattgacgat cgcagcatgc agttcgcgct cgatcatctg 720
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<210> 4395
 <211> 2058
 <212> DNA
 <213> Enterobacter cloacae

<400> 4395
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 gtttgtcgcg cctgcgaagt tgccgtgtgtg atggcgcaaa acggggagca gcacgcgctg 180
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ccgcgcaaca tgcattaa

2058

<210> 4396

<211> 2304

<212> DNA

<213> Enterobacter cloacae

<400> 4396

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<210> 4397

<211> 525

<212> DNA

<213> Enterobacter cloacae

<400> 4397

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caggaagatt	tcgaagaggt	gatcaccctt	tgggagcgct	gcgatctgct	gcgtccatgg	180
aacgatccgg	agatggacat	cgaacggaag	gtgaatcacg	atgtcagttc	gtttctggtc	240
gctgaggtca	acggcgaggt	agtccggacg	gtgatgggcg	ggtacgacgg	ccaccgcggc	300
tcggcctact	atctgggcgt	gcaccgcgaa	taccgcgcgc	gcggcatcgc	caacgcgcgtg	360
cttaaccgctc	tggaaaagaa	gctgatcgcc	cgtggctgcc	cgaaaatcca	gattatggtc	420

cggaagata acgacgtggt gctgggcatg tatgaacgtc tgggctacga gcatgcggat 480
gtactgacgc tgggtaagcg cctgatcgaa gatgaagagt actga 525

<210> 4398

<211> 948

<212> DNA

<213> Enterobacter cloacae

<400> 4398

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<210> 4399

<211> 837

<212> DNA

<213> Enterobacter cloacae

<400> 4399

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tccgtgaacg	gcttttacgg	tgagtggctg	gcgaagtgtt	atatcaaagt	gacctatacc	420
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<210> 4400

<211> 1131

<212> DNA

<213> Enterobacter cloacae

<400> 4400

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<210> 4401

<211> 873

<212> DNA

<213> Enterobacter cloacae

<400> 4401

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ccgacggtgc tgttcagcaa tacgccacac tacgacacct ttacggcggg ggtgatcccg 240
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<210> 4402

<211> 282

<212> DNA

<213> Enterobacter cloacae

<400> 4402

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ccatcaccaa cgattttctc agcaaacact acatccggca cgtcttcgat gttgacgac 180
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<210> 4403

<211> 1275

<212> DNA

<213> Enterobacter cloacae

<400> 4403

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<210> 4404

<211> 2379

<212> DNA

<213> Enterobacter cloacae

<400> 4404

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<210> 4405
 <211> 1434
 <212> DNA
 <213> *Enterobacter cloacae*

<400> 4405
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<210> 4406
 <211> 891
 <212> DNA
 <213> *Enterobacter cloacae*

<400> 4406
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 ggagcgtgt tgatccaact gtgtgagttt tacaaccggg gaaaagcgca gaaaaagctg 840
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<210> 4407
 <211> 906
 <212> DNA
 <213> *Enterobacter cloacae*

<400> 4407
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<210> 4408

<211> 291

<212> DNA

<213> Enterobacter cloacae

<400> 4408

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acattgcatta	acgcagacgg	gcgacaaagc	gggcttcacg	gcgtagtata	a	291

<210> 4409

<211> 621

<212> DNA

<213> Enterobacter cloacae

<400> 4409

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<210> 4410

<211> 456

<212> DNA

<213> Enterobacter cloacae

<400> 4410

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atggctggcg	cgctcgcggg	gcagggcgat	acgctactga	atctctttta	tcccgatcac	180
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atcgggattg	cgctgggtgg	ggcggatatt	gtcgcgctgc	tgtggctggg	cacgaatccc	420
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<210> 4411

<211> 639
 <212> DNA
 <213> *Enterobacter cloacae*

<400> 4411
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 aaaaagtgga aagttagcaa aattatctgg aagcagtaa 639

<210> 4412
 <211> 1023
 <212> DNA
 <213> *Enterobacter cloacae*

<400> 4412
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 taa 1023

<210> 4413
 <211> 921
 <212> DNA
 <213> *Enterobacter cloacae*

<400> 4413
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tcgcaggggg cggggattta a 921

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<210> 4414

<211> 723

<212> DNA

<213> Enterobacter cloacae

<400> 4414

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taa 723

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<210> 4415

<211> 1113

<212> DNA

<213> Enterobacter cloacae

<400> 4415

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<210> 4416

<211> 1044

<212> DNA

<213> Enterobacter cloacae

<400> 4416

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<210> 4417

<211> 1968

<212> DNA

<213> Enterobacter cloacae

<400> 4417

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<210> 4418

<211> 1134

<212> DNA

<213> Enterobacter cloacae

<400> 4418

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<210> 4419

<211> 918

<212> DNA

<213> Enterobacter cloacae

<400> 4419

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<210> 4420

<211> 456

<212> DNA

<213> Enterobacter cloacae

<400> 4420

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ggtggtaatg atatgatttc acatctctac cagccaatgt caccgtccgt actgaatttg 180
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gcgaaggtgt tagcagagca ggctcttgct caaccgacaa cggacgagtt aatgacgctg 420
gttaacaagt tcattgaaga aaaaacaatc tgctaa 456

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<210> 4421

<211> 387

<212> DNA

<213> Enterobacter cloacae

<400> 4421

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ttgcgtgatg	gctccgttcg	ggcagctttg	cgcgcagggc	gcattttcac	agtgggtggca	360
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<210> 4422

<211> 591

<212> DNA

<213> Enterobacter cloacae

<400> 4422

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gatgcgtcaa	atatcgagca	agcgttcaaa	gccctctgta	cagaattaca	cgcgcaaggc	540
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<210> 4423

<211> 462

<212> DNA

<213> Enterobacter cloacae

<400> 4423

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<210> 4424

<211> 696

<212> DNA

<213> Enterobacter cloacae

<400> 4424

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<210> 4425
 <211> 537
 <212> DNA
 <213> Enterobacter cloacae

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<210> 4426
 <211> 519
 <212> DNA
 <213> Enterobacter cloacae

<400> 4426
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<400> 4428

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<211> 384

<212> DNA

<213> Enterobacter cloacae

<400> 4429

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<211> 1131

<212> DNA

<213> Enterobacter cloacae

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<211> 201

<212> DNA

<213> Enterobacter cloacae

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<210> 4432

<211> 1428

<212> DNA

<213> Enterobacter cloacae

<400> 4432

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<211> 1041

<212> DNA

<213> Enterobacter cloacae

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<210> 4434

<211> 2067

<212> DNA

<213> Enterobacter cloacae

<400> 4434

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<211> 1542

<212> DNA

<213> Enterobacter cloacae

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<213> Enterobacter cloacae

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<213> Enterobacter cloacae

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<211> 1407

<212> DNA

<213> Enterobacter cloacae

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<210> 4439

<211> 321

<212> DNA

<213> Enterobacter cloacae

<400> 4439

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<210> 4440

<211> 909

<212> DNA

<213> Enterobacter cloacae

<400> 4440

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<210> 4441
 <211> 1992
 <212> DNA
 <213> Enterobacter cloacae

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<210> 4442
 <211> 1695
 <212> DNA
 <213> Enterobacter cloacae

<400> 4442
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<210> 4443

<211> 3141

<212> DNA

<213> Enterobacter cloacae

<400> 4443

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<210> 4444

<211> 474

<212> DNA

<213> Enterobacter cloacae

<400> 4444

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caccgtatca	gcttcctgat	tggcgctgac	ggtaaagtgt	agcacgtgtt	tgatgatttc	420
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<210> 4445

<211> 1632

<212> DNA

<213> Enterobacter cloacae

<400> 4445

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<210> 4446

<211> 1407

<212> DNA

<213> Enterobacter cloacae

<400> 4446

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<210> 4447

<211> 960

<212> DNA

<213> Enterobacter cloacae

<400> 4447

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<210> 4448

<211> 729

<212> DNA

<213> *Enterobacter cloacae*

<400> 4448

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<210> 4449

<211> 999

<212> DNA

<213> *Enterobacter cloacae*

<400> 4449

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cgcgcgtcgc	attaccacct	gaacctcatt	cacccaaaag	attacagcta	tttcaacaca	960
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<210> 4450

<211> 1290

<212> DNA

<213> *Enterobacter cloacae*

<400> 4450

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<210> 4451

<211> 1383

<212> DNA

<213> Enterobacter cloacae

<400> 4451

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<210> 4452

<211> 768

<212> DNA

<213> Enterobacter cloacae

<400> 4452

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<210> 4453
 <211> 921
 <212> DNA
 <213> *Enterobacter cloacae*

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<210> 4454
 <211> 309
 <212> DNA
 <213> *Enterobacter cloacae*

<400> 4454
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 tctccgataa cgtggggccc gtgcagcttc cgtttaacag cggggacacc accgacgaca 180
 cgctgccgca gttgcaggga accgcaccgg acggcaccac catcacgac tatgacggaa 240
 ccaccctgct cggcacggcg gtgctcgacg gcagcggcgg ctggagcttt acgccaacca 300
 cgccgcgtga 309

<210> 4455
 <211> 237
 <212> DNA
 <213> *Enterobacter cloacae*

<400> 4455
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 gccagacgct gcaaatcacc gccaccgatg cggcagggaa cgtctcgtct cccggctcag 180
 cccttgccgc ggtggtgccc ctctctgcca gcaccaacgt tgaagagctg gcgctga 237

<210> 4456
 <211> 1413
 <212> DNA
 <213> *Enterobacter cloacae*

<400> 4456
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<210> 4457

<211> 342

<212> DNA

<213> Enterobacter cloacae

<400> 4457

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gctatcaccc	ggaagatccc	cgcattggcg	tgcgcattaa	ccgcctggag	atcaaagcgg	180
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<210> 4458

<211> 1251

<212> DNA

<213> Enterobacter cloacae

<400> 4458

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<210> 4459

<211> 1782

<212> DNA

<213> Enterobacter cloacae

<400> 4459

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<210> 4460

<211> 378

<212> DNA

<213> Enterobacter cloacae

<400> 4460

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<210> 4461

<211> 834

<212> DNA

<213> Enterobacter cloacae

<400> 4461

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<210> 4462

<211> 1950

<212> DNA

<213> Enterobacter cloacae

<400> 4462

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<211> 2727

<212> DNA

<213> Enterobacter cloacae

<400> 4463

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<210> 4464

<211> 468

<212> DNA

<213> Enterobacter cloacae

<400> 4464

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<211> 387

<212> DNA

<213> Enterobacter cloacae

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<210> 4466

<211> 276

<212> DNA

<213> Enterobacter cloacae

<400> 4466

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<210> 4467

<211> 924

<212> DNA

<213> Enterobacter cloacae

<400> 4467

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<210> 4468

<211> 891

<212> DNA

<213> Enterobacter cloacae

<400> 4468

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<210> 4469

<211> 984

<212> DNA

<213> Enterobacter cloacae

<400> 4469

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<211> 513

<212> DNA

<213> Enterobacter cloacae

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<211> 588

<212> DNA

<213> Enterobacter cloacae

<400> 4471

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<213> *Enterobacter cloacae*

<400> 4472

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<211> 306

<212> DNA

<213> *Enterobacter cloacae*

<400> 4473

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<211> 2277

<212> DNA

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<212> DNA

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<211> 2226

<212> DNA

<213> Enterobacter cloacae

<400> 4476

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<210> 4477

<211> 447

<212> DNA

<213> Enterobacter cloacae

<400> 4477

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<210> 4478

<211> 681

<212> DNA

<213> Enterobacter cloacae

<400> 4478

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<210> 4479

<211> 528

<212> DNA

<213> Enterobacter cloacae

<400> 4479

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<210> 4480

<211> 240

<212> DNA

<213> Enterobacter cloacae

<400> 4480

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<210> 4481

<211> 1773

<212> DNA

<213> Enterobacter cloacae

<400> 4481

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<210> 4482

<211> 1011

<212> DNA

<213> Enterobacter cloacae

<400> 4482

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<210> 4483

<211> 252

<212> DNA

<213> Enterobacter cloacae

<400> 4483

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ttcaatgtac ggtgtgaagg tgtcctcggt ggcaaagggt atgccaccgc cggccagcgc 60
gaggctgagc ataagacgca gatcgtagt ggttatttgt ggttcaattg ccacatcgaa 120
agggacgcct gcttctcaa actcccagcg atagggggca acgtccgggg aagggcgcca 180
gccgatacac cgatgagcga ccagctcacg gggatgcgcc ggtgcgctgt gtgtcgccag 240
ataggaaggt ga 252

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<210> 4484

<211> 342

<212> DNA

<213> Enterobacter cloacae

<400> 4484

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gatcgtaaaag ccctgatagt cgatttcagc aaaatcgatt ttatcgacag cagcggcctt 180
ggcgactagg ttccctgct gaagatgatg aatggtaaag gtgaaatgat gctgtgtgcg 240
ctgaaccccg gtatacgcaa catgttcacc ctgaccgcta tggatcgcat atttcgcatt 300
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<210> 4485

<211> 291

<212> DNA

<213> Enterobacter cloacae

<400> 4485

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cacagtcttt acgcttgat aaagaagtac ggcccggatt ctccactca taatgaacag 180
tcagatgctc aggcgagat ccgccgtctt cagaaagagt tgaagcgggt tacggacgaa 240
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<210> 4486

<211> 411

<212> DNA

<213> Enterobacter cloacae

<400> 4486

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atcatagcga	gccagcgttc	gcgcgcgcgc	cagcatattg	ccgtcgcac	cgaccaccac	180
ggcgagatcc	gcctgctggc	caatttccgc	cagcgtgccg	gttctgacgc	ttttaagctg	240
caactcctgg	gcaatctgct	gctcgacccat	cacttcatag	cctttaccac	acagccagcg	300
atacaacatt	tcattgtgtcg	tcaatgcggg	aggggtgacgc	ggatggccga	cgatcccaat	360
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<210> 4487

<211> 624

<212> DNA

<213> Enterobacter cloacae

<400> 4487

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accaaccgcc	agaaaagaac	cgccattatt	attgccagcc	tgaaaaagca	ttacgcctgt	180
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cccttcctga	tcagctgctt	gaccaatgat	ttaaccctgc	tgcgcatgtt	ccttcggcg	300
gatccggatc	tcgaccgtct	gaecgcgttt	ggcggcgtgg	gcattacccc	tgccagtga	360
aaagggcacg	ttgaaatcgt	gcgtgagctg	ctggaaaaaa	ccgacatcaa	cgtaaccac	420
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aagcagcgca	aaattgtgaa	gctgctgctg	gatcacggcg	cgaaccgcga	catgaccgat	540
aaatacggca	aaaccccgct	cgaactggcg	cgggaaaaag	gcttcaacgc	gatcgacgac	600
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<210> 4488

<211> 1650

<212> DNA

<213> Enterobacter cloacae

<400> 4488

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atcgtcataa	aaaagaatac	gtatttcgat	tcggtttcc	taatgtcgg	ttccacccaaa	180
gccaataaat	tgccggggcg	cgagcaggcg	tttgtggcga	tgccgacgga	aatgaacaaa	240
ggcgatttaa	aaaacctcgg	gctattaaac	ccggaattag	cggacgcgaa	aatggcgac	300
ctgatgatcg	tgattaaagg	cgacgcggca	aatgatgaaa	ccctggccgc	cattgaagcg	360
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ctcggtacg	tgctcggcac	cgatcaggat	ccgcagtcgc	tggcgcagca	gtgccagctg	1560
ctgaccgacg	caggcgtcat	ctgggcccgc	agcagcacca	acaccggatt	actggcacgc	1620
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<210> 4489

<211> 990
 <212> DNA
 <213> *Enterobacter cloacae*

<400> 4489
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 gtcaaagcgg tggctgagtc ggtgctcgaa atgctggcct cggactatga catcgtgctc 180
 acccatggca atggcccgcga ggtggggctg gatctgcgcc gcgccgaaat cgcccacgag 240
 cggaagggc tgcctgtgac ccgctggca aactgctgg cggataccca ggcggcatc 300
 ggctacctga tccagcaggc gctcaacaac cgcttggcgg cgcgtggcga gcaaaaggcg 360
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 gacgtgctgg tgatcaccac cggcgtggag aaagtgtgct tgaacttcgg caagccgaac 780
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 ggcaggcgcg taatcatcac ctgcgcggac tgcttgccc cagcgcgtgcg cggtgaaacg 960
 ggtacccata ttattaatga aggaagataa 990

<210> 4490
 <211> 1335
 <212> DNA
 <213> *Enterobacter cloacae*

<400> 4490
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 attggtgcag tactgcggtt tatcattgac gaatttcata tcaataattt cgaagccggt 180
 gccatcgcca gcatgttttt tttgggatac gccctgagcc aaattcctgc gggctttttt 240
 attgccaaaa aggggaattcg cggcatggtg gcactgtcga tattcggctt ctctgccttt 300
 acctggctga tgggcaccgc aacctcagtt ctgggcctga agtgatccg cctggggctg 360
 gggttaacag agggggcctg cccggtcggg ctggcctcca ccatacaata ctggtttccg 420
 ccaaaggaga aggccacggc cacgggcgtc tacatgcgcg ccaccatgtt cgcgcccatc 480
 ctctgcccgc cgctggcagt gtggatcgcc atgacctggg gctggcgtg ggtcttcttc 540
 tcctttgcga tcccgcgctt ggtcattgcc gtctgtggtt atctgctggt acgcaccagg 600
 ccgtccgaga gcgcattcgt ctcgaaagcg gagctggaga ccattaccgc cggtcaggag 660
 accccggacg ccagacggga aaatatcgtg atttcaccag gctttgcacg cctcgatcgg 720
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 gtcgccagca tgcctgtcat cgggtgattt atcggtgcca tttttggcgg ctacgtctcc 960
 gacaaaactgc tcggccgccc acgtaaaccg accatgatgt ttaccgccat cagcaccgtt 1020
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 gttgcggaca gtaaaaacct tccgattgcc gcgctccatta tcaatagcgg cggtaatctc 1200
 ggcggatttg tttccccgat gctggcagggt tatctgctgg ataaaacagg tagttttaat 1260
 tccgtgttta tttatttcgg tatttgcgca gccattggct taataatgat tatgctgctg 1320
 gaagagccga aataa 1335

<210> 4491
 <211> 762
 <212> DNA
 <213> *Enterobacter cloacae*

<400> 4491
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atcgatttaa	acgctgaagc	cagccgggct	gccgcgcgca	gccttggcga	cgaacatctg	180
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ctgctaattgt	cccaggcggt	tattcccaact	atgcgcgcgc	aaaagtcggg	cagcatcgtc	420
tgcatttcat	cggtatcggc	ccagcgcggc	ggcggcatct	ttggcggccc	acactacagc	480
gctgcaaaag	cgggtgtgct	ggggctggca	aaagccatgg	cgcgtgagct	ggggcccgcac	540
aatgtgcgcg	taaactgcat	cacgcggggt	cttatccaga	cggacattac	cgcaggcaag	600
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gcgcaggata	ttgcccgcg	cgcgctgttc	ctcggcagcg	acctctcttc	ttactccacc	720
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<210> 4492

<211> 858

<212> DNA

<213> Enterobacter cloacae

<400> 4492

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cgccgctacg	cgtgcgcgt	gggcgaagtg	caggggcagg	gctacatcgg	gcaggcgctg	120
ggctatgccg	atgtgctggc	caccgcgttt	acccacggaa	tgaaccttaa	gccgggcgag	180
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gacgacagcc	gcctgccgat	gtccggcatg	gcaacctaca	cgcgcggcat	ggagatctcc	360
ggcggttcgc	tggggcaggg	cttaagcatt	ggcgttggca	tggcgctggg	gctgaagcgc	420
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acctgggaag	ctgcgatgtc	ggcggcacat	cacggcctgt	cgaacctgat	cgtgctgggtg	540
gacattaacc	gccagcaggc	ggatggcaac	tcgcaecgca	tcctcggctt	tgagccgctg	600
gaagataaat	ggacctcctt	cggctggtag	gtgcagcgcg	tcaacggcaa	cgatgtccct	660
tcactggtaa	cggcgtttga	taacgccaaa	cgtaccocgg	aaaaccagcc	gcgcgtcatt	720
ttgtgcgaca	cgtgatggg	caagggcgtg	ccgttcctcg	aaaagcgtga	caagaacctat	780
tttattcgcg	tggatgctga	cgagtggcaa	aaggcaactcg	ctgtgctgga	tgccaacaaa	840
cctgaaggag	tgctgtaa					858

<210> 4493

<211> 1185

<212> DNA

<213> Enterobacter cloacae

<400> 4493

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acgtacgaat	atctgaaaac	cggctcgtctg	gcgaatcaga	ttaaaatgat	ccgcgaagcc	900
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ttctactgca	acgagccgga	ccacaccacg	ctgcgcattg	ctttcgttac	cccaacggat	1140
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<210> 4494

<211> 435

<212> DNA

<213> Enterobacter cloacae

<400> 4494

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tttgcgctc	atctcgccgc	ctgtgaaacg	gctaccaaca	ttattcg	tgcgctacat	180
gaggatccg	aacgttgctt	caccgtggag	ttcatcg	ccgtctcgga	cgcgccgctg	240
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gcgacgttc	atgctctct	tttggctgaa	agcggcagag	gactgaaact	catttttttg	360
tatgtcgata	atttcacggt	ggaaaacg	gcagggaaaa	atatcaccgt	tctggagaag	420
aggatggctg	gataa					435

<210> 4495

<211> 1200

<212> DNA

<213> Enterobacter cloacae

<400> 4495

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ctgaaagagg	aacctgtatt	acagggtggag	cgctcgatg	ttgtcgatct	ggtaccggaa	180
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gcaaaagagc	agttcgataa	aggcttccgc	gtgatggaca	tcggcgaaaa	cgcccgcatg	720
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atcatgaa	ggcatcacct	gggttacggc	gaactgggca	agccgaccgg	agagcgactg	1080
tttgtgtagg	gcatgtcgca	ctaccacatc	gtcaacggaa	aaattgttga	tgaatgggtc	1140
gtgtatgacc	acctggcgct	gttggcgcaa	atcaaactcg	gccagatgga	ggacgcgtaa	1200

<210> 4496

<211> 1296

<212> DNA

<213> Enterobacter cloacae

<400> 4496

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ctaagagcct	tttcgcagca	gtttgataag	gtcgtccccg	cgcagtttga	ggtgagcgag	180
caggagatcg	ccgaagcact	ggaggggatg	gatgcccgag	cgcgccgcga	cagtgaagttt	240
gcgattaatc	aggtgtgtcg	ttttgcgcag	gcgcagctgg	cgaccatgca	gccgctggag	300
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gaagatgaag	cgcagctgat	tgcctttgct	gaccatatgg	cgacggagca	tttgaggtg	960
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<210> 4497

<211> 1365

<212> DNA

<213> Enterobacter cloacae

<400> 4497

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<210> 4498

<211> 477

<212> DNA

<213> Enterobacter cloacae

<400> 4498

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<210> 4499

<211> 381

<212> DNA

<213> Enterobacter cloacae

<400> 4499

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<210> 4500

<211> 1632

<212> DNA

<213> Enterobacter cloacae

<400> 4500

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<210> 4501

<211> 1458

<212> DNA

<213> Enterobacter cloacae

<400> 4501

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<210> 4502

<211> 861

<212> DNA

<213> Enterobacter cloacae

<400> 4502

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<210> 4503

<211> 903

<212> DNA

<213> Enterobacter cloacae

<400> 4503

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<210> 4504

<211> 744

<212> DNA

<213> *Enterobacter cloacae*

<400> 4504

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<210> 4505

<211> 1269

<212> DNA

<213> *Enterobacter cloacae*

<400> 4505

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<210> 4506

<211> 1209

<212> DNA

<213> *Enterobacter cloacae*

<400> 4506

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<210> 4507

<211> 984

<212> DNA

<213> Enterobacter cloacae

<400> 4507

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<210> 4508

<211> 372

<212> DNA

<213> Enterobacter cloacae

<400> 4508

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<210> 4509

<211> 2427

<212> DNA

<213> Enterobacter cloacae

<400> 4509

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<210> 4510

<211> 378

<212> DNA

<213> Enterobacter cloacae

<400> 4510

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<210> 4511

<211> 918

<212> DNA

<213> Enterobacter cloacae

<400> 4511

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<210> 4512

<211> 687

<212> DNA

<213> Enterobacter cloacae

<400> 4512

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<210> 4513

<211> 723

<212> DNA

<213> Enterobacter cloacae

<400> 4513

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<210> 4514

<211> 1116

<212> DNA

<213> Enterobacter cloacae

<400> 4514

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<210> 4515

<211> 2037

<212> DNA

<213> Enterobacter cloacae

<400> 4515

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<211> 825
 <212> DNA
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 <211> 495
 <212> DNA
 <213> Enterobacter cloacae

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<210> 4518
 <211> 309
 <212> DNA
 <213> Enterobacter cloacae

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<210> 4519
 <211> 1590
 <212> DNA
 <213> Enterobacter cloacae

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<210> 4520

<211> 999

<212> DNA

<213> Enterobacter cloacae

<400> 4520

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<210> 4521

<211> 300

<212> DNA

<213> Enterobacter cloacae

<400> 4521

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<210> 4522

<211> 798

<212> DNA

<213> Enterobacter cloacae

<400> 4522

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<210> 4523

<211> 1332

<212> DNA

<213> Enterobacter cloacae

<400> 4523

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<210> 4524

<211> 963

<212> DNA

<213> Enterobacter cloacae

<400> 4524

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<210> 4525

<211> 615

<212> DNA

<213> Enterobacter cloacae

<400> 4525

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<210> 4526

<211> 1548

<212> DNA

<213> Enterobacter cloacae

<400> 4526

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 <212> DNA
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<210> 4528
 <211> 3942
 <212> DNA
 <213> Enterobacter cloacae

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<211> 1062

<212> DNA

<213> Enterobacter cloacae

<400> 4529

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<210> 4530

<211> 1290

<212> DNA

<213> Enterobacter cloacae

<400> 4530

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<210> 4531

<211> 699

<212> DNA

<213> Enterobacter cloacae

<400> 4531

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<210> 4532

<211> 351

<212> DNA

<213> Enterobacter cloacae

<400> 4532

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<210> 4533

<211> 1254

<212> DNA

<213> Enterobacter cloacae

<400> 4533

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<210> 4534

<211> 1437

<212> DNA

<213> Enterobacter cloacae

<400> 4534

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<210> 4535

<211> 1476

<212> DNA

<213> Enterobacter cloacae

<400> 4535

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<210> 4536

<211> 2148

<212> DNA

<213> Enterobacter cloacae

<400> 4536

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<210> 4537

<211> 201

<212> DNA

<213> Enterobacter cloacae

<400> 4537

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<210> 4538

<211> 594

<212> DNA

<213> Enterobacter cloacae

<400> 4538

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<210> 4539

<211> 783

<212> DNA

<213> Enterobacter cloacae

<400> 4539

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<211> 1581

<212> DNA

<213> Enterobacter cloacae

<400> 4540

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<210> 4541

<211> 1290

<212> DNA

<213> Enterobacter cloacae

<400> 4541

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gaattgcacc	gacgcggcgg	gcgctacgcg	ctgtgtacga	tgtgcatcgg	tgtgggtcag	1260
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<210> 4542

<211> 1986

<212> DNA

<213> Enterobacter cloacae

<400> 4542

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<210> 4543

<211> 948

<212> DNA

<213> Enterobacter cloacae

<400> 4543

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<210> 4544

<211> 753

<212> DNA

<213> Enterobacter cloacae

<400> 4544

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accgthttcg	ccatttactg	gcagcgctc	aggctgtggc	tgaagcgcg	gcccgtgcat	720
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<210> 4545

<211> 963

<212> DNA

<213> Enterobacter cloacae

<400> 4545

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<210> 4546

<211> 546

<212> DNA

<213> Enterobacter cloacae

<400> 4546

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<210> 4547

<211> 846

<212> DNA

<213> Enterobacter cloacae

<400> 4547

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tacggtcgg	cgggacgtga	tttcattgcc	catgtcgata	tcctgcca	cgtggacgcc	780
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ctgtaa						846

<210> 4548

<211> 984

<212> DNA

<213> Enterobacter cloacae

<400> 4548

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cagccgggag	agatacgtgt	gcgcatgctt	ttttctccgg	tgaacgcctc	cgatctcatc	180
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<210> 4549

<211> 432

<212> DNA

<213> Enterobacter cloacae

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 ttatttgatg aaaccctgac gacaatgaaa attgccgggc tgacgaccct ggtcgcgggt 360
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<210> 4550

<211> 456

<212> DNA

<213> Enterobacter cloacae

<400> 4550
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 gtcccgggtg agctgatggg tgacgatccg gagcgtggca cgcttatacg cgttttacag 360
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<210> 4551

<211> 459

<212> DNA

<213> Enterobacter cloacae

<400> 4551
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 ggcgcgacga tcacctggt caacattctc cctaacagca gccgttcatt actgcggggg 180
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 ggcaacgtac gcgatgaaat catcaagctc agcaaagagg ggaaatatga cgttattggt 360
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<210> 4552

<211> 183

<212> DNA

<213> Enterobacter cloacae

<400> 4552
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<210> 4553

<211> 2646

<212> DNA

<213> Enterobacter cloacae

<400> 4553
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<210> 4554

<211> 348

<212> DNA

<213> Enterobacter cloacae

<400> 4554

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<210> 4555

<211> 774

<212> DNA

<213> Enterobacter cloacae

<400> 4555

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<210> 4556

<211> 1200

<212> DNA

<213> Enterobacter cloacae

<400> 4556						
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<210> 4557

<211> 513

<212> DNA

<213> Enterobacter cloacae

<400> 4557						
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<210> 4558

<211> 978

<212> DNA

<213> Enterobacter cloacae

<400> 4558

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<210> 4559

<211> 483

<212> DNA

<213> Enterobacter cloacae

<400> 4559

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<210> 4560

<211> 1668

<212> DNA

<213> Enterobacter cloacae

<400> 4560

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<210> 4561

<211> 1452

<212> DNA

<213> *Enterobacter cloacae*

<400> 4561

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<210> 4562

<211> 696

<212> DNA

<213> *Enterobacter cloacae*

<400> 4562

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<210> 4563
 <211> 2091
 <212> DNA
 <213> *Enterobacter cloacae*

<400> 4563
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 aaaccaccg gcgtggtgga atgggctgtg gagatcttca accagcaca gcaggccgtg 2040
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<210> 4564
 <211> 231
 <212> DNA
 <213> *Enterobacter cloacae*

<400> 4564
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 cacagcgacg gccttaaatgc cgcgaggtg cgtcgtggta aaacgggtga agtgaagga 180
 tgcaaggta agttcgaacc gattgagctg attcgcctgg ggatgcacta a 231

<210> 4565
 <211> 939
 <212> DNA
 <213> *Enterobacter cloacae*

<400> 4565
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gcggataata	accaggttga	tgcattggca	aatgaagcag	cgcttcgcaa	ctccattatg	360
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ccggaattca	ataaccggga	acatattatg	aaggttatca	ccaacgccga	agatatctgg	840
ggacgagacc	gaaaactggg	caggcaagag	gtatcaaaac	gcaccctgcc	ttcttatctg	900
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<210> 4566

<211> 348

<212> DNA

<213> Enterobacter cloacae

<400> 4566

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gagcgcgtga	aaagcgacat	tcagcagaag	attatcaaca	acggcgtaac	ggagtctggc	180
tttaccctga	acatcgctcc	gaacgatcag	gccgatcagc	cggatgcgca	ggtcgttggg	240
cattgtgcca	acgatacttt	caaaattttg	tacaccgcga	ccagtagcgg	caactaccgc	300
gtgagcggcg	caggtaacga	ggagaatgcg	cccgtctgagc	cgcaatga		348

<210> 4567

<211> 270

<212> DNA

<213> Enterobacter cloacae

<400> 4567

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ccgcggcgaa	gtgcgcattg	ctgcgaaagt	cacccgcgcg	atcatgcccg	gcgtaagcgc	120
gatggggccag	ggcgctggca	tgacgccaac	atgaacggcg	atcgtgtcga	tcacggctcc	180
tgcatcaata	ccctgaccac	gcaccgccc	tcaccgctgg	cgaaaggcaa	cccgcagcac	240
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<210> 4568

<211> 783

<212> DNA

<213> Enterobacter cloacae

<400> 4568

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ttaa						783

<210> 4569
 <211> 672
 <212> DNA
 <213> *Enterobacter cloacae*

<400> 4569
 caaacagttg ctgtaggagg cgctatggag acgattcact atattctcga caactgggac 60
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 attattattg gcgtgccgct gggcatttta attgtccgcc ataaatggct ggcaacgccg 180
 gtgctgggga ttgccaccat tgtgctcacc atcccgtaaa ttgcgctttt cggcctgatg 240
 atcccgctct tttcgctgat cggctcagggc attgggtgcc tgcccgcgat tacggcggtg 300
 ttctcttatt cgctgtgcc gattgtgcgt aacaccata cggcgctcga cagcctgcc 360
 cccggcctgc gtgaagcggg acgcggcacc ggcatgacct tctggcagcg tctgcgctgg 420
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 ctttttagcga ttgtgctcga ctgggtgctg caccgtttgc aggtggtact gactccgaag 660
 gggattcgat aa 672

<210> 4570
 <211> 1503
 <212> DNA
 <213> *Enterobacter cloacae*

<400> 4570
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 ccgccaggcg gcagcgcgcg gcgcgggtgaa gcgctggcgg agatgagcgt cctgcaacat 180
 cagatcctga ccgataaaaa agtgggtgaa tggctggcgg cggcggcaga cgaagatctg 240
 aacgacgttg agctggccaa cctgcgtgaa atgacgcgct actaccagca ggcaacttta 300
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 cgcactcagc gtccggccaa cgactggcag ggcttttcag ccaacctgaa agagggtgtg 420
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 gcgctgcccc ggttgagat atccattgcc gggggcgatt tctcagcact gtttgactgg 1380
 ctgcgtcaga atatctggca gcaacggcag cgttttcagca catcgagct catcaccag 1440
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 taa 1503

<210> 4571
 <211> 1461
 <212> DNA
 <213> *Enterobacter cloacae*

<400> 4571
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 ataaatacag tattttattaa cgggtgatcat aatgcagttt ttcacccccc ctggcgatac 180

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cagcagccgt	ggcagatgaa	acgggaaatg	ctttcacccc	gctacacaac	ccgctttgcg	1440
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<210> 4572

<211> 996

<212> DNA

<213> Enterobacter cloacae

<400> 4572

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<210> 4573

<211> 1209

<212> DNA

<213> Enterobacter cloacae

<400> 4573

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gatttcgcgc	aggttaaaaa	aggcgagctg	ctgttgacga	tagatgaccg	tatctatcgc	420
cagcgcgtcc	atcaggccga	ggcgcagctg	gcaatgaaaa	ttgcagctct	taataacaac	480

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ctgcaacagc gcagaagtgc ggaagcgggtg attgccaaaa acgaggcggc gctgaaaaaac 540
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aactttgtta aaatcgccca gcgcattccc gtacgcattg aagtactcgg tgagccggag 1140
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<210> 4574

<211> 858

<212> DNA

<213> Enterobacter cloacae

<400> 4574

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<210> 4575

<211> 1041

<212> DNA

<213> Enterobacter cloacae

<400> 4575

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cttgacggga aacaggatgc gctacgtttg tctctggatg aacagattcg cgcgggatt 180
gatatcgtca gcgacgggga acaaactcgc cagcatttctg tcaccacctt tattgaacat 240
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<210> 4576
 <211> 2502
 <212> DNA
 <213> *Enterobacter cloacae*

<400> 4576
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<210> 4577
 <211> 2037
 <212> DNA
 <213> *Enterobacter cloacae*

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<210> 4578

<211> 1158

<212> DNA

<213> Enterobacter cloacae

<400> 4578

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<211> 438

<212> DNA

<213> Enterobacter cloacae

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<211> 951

<212> DNA

<213> Enterobacter cloacae

<400> 4580

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<211> 1020

<212> DNA

<213> Enterobacter cloacae

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<211> 840

<212> DNA

<213> Enterobacter cloacae

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<210> 4583

<211> 696

<212> DNA

<213> Enterobacter cloacae

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<212> DNA

<213> Enterobacter cloacae

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<211> 609

<212> DNA

<213> Enterobacter cloacae

<400> 4585

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<211> 2325

<212> DNA

<213> Enterobacter cloacae

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<210> 4587
 <211> 621
 <212> DNA
 <213> *Enterobacter cloacae*

<400> 4587
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 tatgaatatg cgggcggcga ctggcaggag gataacggcg tctggcatca gaatgtcttc 180
 gcctattacc tgtcgattgc ctgcaaccac tgcgaagatc cggcctgcac caaggtctgc 240
 ccgagcgggg caatgcacaa gcgcgacgac ggttttgtgg tgggtggacga ggatgtctgc 300
 atcggctgtc gctactgcca catggcctgc ccgtacggcg cgcgcagta caatgccgcc 360
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 atctgcgtcg aatcctgccc gctgcgcgcg ctggactttg gcccgattga ggagctgcgc 480
 aaaaaacacg gccagcttgc tgccgtcgcg ccgctgccgt ctgcgcactt cacaaagccg 540
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 gcaaaccgga aggaggtgtg a 621

<210> 4588
 <211> 723
 <212> DNA
 <213> *Enterobacter cloacae*

<400> 4588
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 tcacaccgcg aatcgttcgc gttcagcgcg cgggtactgg gcgcgctgtt ttatttcgcc 180
 ccagacagcg agcagatcgc gccgctggtg agtgccctga ccgcagggtga ctgggttcag 240
 gactggccgc tggcggagga aaacctgctg cctgtcgcca gtatgtttaa gaccccatcg 300
 gatgaagcgt tgaaagacgc ctggcagcgt ctggtttattg gcccgatgc cctgcccgcc 360
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 gcgttgctgc agtggtatgc tgaaaaccat atcgcccttg agatgcagca gaatgagcct 480
 gaagatcatt tcggaacgtt gctgatgctg gcggcatggc ttgcgcgaga cggtcgcgaa 540
 acagaacgcg accagcttct ggccctggcat ctgctgccat ggagcacgcg ttctccttagc 600
 gtattcgttg aaaacgcgcg ccattccgttc tacaccgcgc tgggtaaact tgcccagctg 660
 acgctggcgg aatggcagtc cactttgctg atccccgatt tcgaaaaaac gctgtaccga 720
 taa 723

<210> 4589
 <211> 291
 <212> DNA
 <213> *Enterobacter cloacae*

<400> 4589
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 gagagcgata aagtcgacca ccgcaagggtg acgttcgaga accgatacgg gatcacccctg 120
 gctggcgatc tgtacattcc caggaacagc ggcgaccaga tgctggcttc tcttctcgtc 180
 gttgtgaaat acacctatgt ctacactgaa tcaaatccca tcccgtcca gcgagcatgc 240
 atactgggcc ggtatttatg cccgccagtc tgctcgcgtc atcagcaata a 291

<210> 4590
 <211> 738
 <212> DNA
 <213> *Enterobacter cloacae*

<400> 4590
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 aaggcgcgcc aggttgacct gatctacctc gggcaacagc acctgattct ggtcttttca 180
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ctgattttcc	ctgggatcta	cctgaatgac	ttcccagcgc	tgatcctggg	cgcggcgccc	660
accgcccgtg	tgcgccgat	tctggatacg	ctgctggcgg	cactgggtcg	actactgagc	720
ccgcatctcg	cgcgataa					738

<210> 4591

<211> 912

<212> DNA

<213> Enterobacter cloacae

<400> 4591

caaggagctt	ctatgagact	gttttcgggc	ctgacggcgc	tatgcgcgcg	cgcgctcttc	60
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attctctcgg	ccatgaccgt	gcagtatctg	caaaagaaaag	ggtttcagg	gcagcgcgag	180
accaatattg	caacggtgat	ttcccgtaac	gcgatgatca	acaagcagat	tgatatgacc	240
tgggagtaca	ccggcacgtc	gctgatcatc	ttcaaccaca	tcaacaaacg	catgtcgcgc	300
caggagtcac	acgagacggt	gaaacgcctc	gacgcgaagc	acggtctggt	gtggcttaaa	360
cctgccgata	tgaacaatac	ctatgccttt	gccatgcagc	gcaagcgcgc	cgaggctgaa	420
catatcaata	ccatgtctga	gatggtggca	aagattgagc	agatccgtaa	aaccgatccg	480
gataacaact	ggctgctggg	ccttgacctg	gaatttgccg	gacgcagoga	cgggatgaaa	540
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gaggcgctga	acaccctctc	agcccagctc	aataacgacg	ttatcaccca	cctgaataag	840
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<210> 4592

<211> 1338

<212> DNA

<213> Enterobacter cloacae

<400> 4592

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ccccagttta	tgcgcgtcac	gctggcgctc	ttctcagcag	gtctcgccac	ttttgccctg	240
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ggcgtgggcg	gatttatcgc	gctgatgctg	tgcgcggcac	tgctgggtggg	cgcgagcctg	1320
cataaacgac	tgcattaa					1338

<210> 4593
 <211> 843
 <212> DNA
 <213> *Enterobacter cloacae*

<400> 4593
 ttacccccac cagagtgtga tatgcgtaaa tctgttgtgt tgttactggg aacgttttagc 60
 ctttttgctg gcttttcaca tgcggatgat ggcgacgatg acgccattag cgccaaagag 120
 gtaaagacgc tgttttttgg tcatgacgat cgtacgcgtg tcaccgatcc taccgaatcg 180
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 ggctggattg tgccgcccg ggccgcctcc tgggatttgc ggctgatcgt tttacgttat 480
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 tcgctgtaca cccatacgga ctgcgtgggt acgggttggg cgcaaacacg cgtgctgtcg 660
 catcagtgcg atacgctacc gggatgatagc ggatcgccgc tgatgttaaa aaccgataac 720
 ggctggcagc tgattggcgt tcaaagttct gcgccagcgg cgaaagaccg ctggcgcgcc 780
 gataaccggg cgttgtcggg gaccggtttt cgcgaccggc tggaagccct ggcgcagcag 840
 tag 843

<210> 4594
 <211> 438
 <212> DNA
 <213> *Enterobacter cloacae*

<400> 4594
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 gatgctcgac gcgatgacca tggcctacgc gctacagcgt ccgccttata acacggtcac 120
 cgacaaagcg gcctggcaca caaccgact ggtataagca tgcaaaaaaa ctccatcgctc 180
 gcctttcgtc gcggctatcg cctgcaatgg gaagccgctc aggacagcca tgtcatcctc 240
 tatccggaag gcatggctaa actcaatgag actgcggcgc caatcctcga actggtcgat 300
 ggccaaacgc acgcggcggc tatcattgcc atactcaacg aacggttccc ggaagccggc 360
 ggctgggatg acgacgtcgt agaattcctg caaatcgctt atcaacagaa gtggattatt 420
 ttccgtgagc cagaataa 438

<210> 4595
 <211> 2298
 <212> DNA
 <213> *Enterobacter cloacae*

<400> 4595
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 gcaacgctgg tgcatcagcc gcaggcgaca cgcgcggcgg cgctggcgcg cgtgagtgcc 120
 ggaagccatc acgagccacc gcgattcgcc ggtctcgcgc atttgcttga gcacctgctg 180
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 ggcggaacg tcaatgccac cacgctggct cgccacagcg cttttttctt cgacgttgcc 300
 gccgataacc tgctcgacgg cgtcgcgcga ctgcgggata tgttgacagg gccgctgctt 360
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 cagcatgatc ccgcccgcg cgaagccgcg gcgcgccacg cgatggaaca accggaggtt 480
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<210> 4596

<211> 666

<212> DNA

<213> Enterobacter cloacae

<400> 4596

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atgagcaaag	tattagtatt	gaaatccagt	attctggcag	ggtattcaca	gtctggctag	120
ctgtctgact	atttcgttga	acagtggcgt	gaacagcaca	gcgcggatga	aatcacccgtg	180
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<210> 4597

<211> 1299

<212> DNA

<213> Enterobacter cloacae

<400> 4597

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<210> 4598

<211> 246

<212> DNA

<213> Enterobacter cloacae

<400> 4598

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gtgacggtta	agccaatgca	agcgaaacgg	ctgaacagcg	acgccagcaa	aagcgaccgt	180
gaaaagctta	accgcatgct	cgaggagatg	ttcgaagagt	cggatatgtg	gttgatacaa	240
gagtaa						246

<210> 4599

<211> 897

<212> DNA

<213> Enterobacter cloacae

<400> 4599

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acaacacaaa	aagcgttgag	gaacagttag	atgattatct	tagttaccgg	ggcgacagcg	180
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<210> 4600

<211> 708

<212> DNA

<213> Enterobacter cloacae

<400> 4600

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708

<210> 4601

<211> 372

<212> DNA

<213> Enterobacter cloacae

<400> 4601

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gagtgggata	aagaagacgt	cgcgtttgat	gcccgcgaca	aatgccagca	aagtgccaac	300
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<210> 4602

<211> 927

<212> DNA

<213> Enterobacter cloacae

<400> 4602

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gggcagtgcg	tggccggcgc	gttaatcggt	atgggcttcg	tctggcttaa	ggaaaatgat	180
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gggtttatgg	cttcgggtgt	gcaccttggc	tcccgcctgc	gtgccttcaa	ctcgtttaac	300
cgcgtggcgc	cgtcagcgct	gagtaatgag	atcggggcgc	gttcgctctt	ctttgccgtg	360
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<210> 4603

<211> 453

<212> DNA

<213> Enterobacter cloacae

<400> 4603

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tacagtatac	gggggtgcac	aatggctgtt	gaaacaaaat	ttgttgtcgt	aagaaaagg	180
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accagcaagc	ttcccagcgc	caatgctgca	acggataaaa	cagcatcaga	tgccgatagc	420
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<210> 4604

<211> 1257

<212> DNA

<213> Enterobacter cloacae

<400> 4604

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<210> 4605

<211> 1416

<212> DNA

<213> Enterobacter cloacae

<400> 4605

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gcttaccocg	acatocgcgc	gatgtttcgc	cgtctcctga	ttgetaccgt	caccggcggtg	180
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<210> 4606

<211> 1065

<212> DNA

<213> Enterobacter cloacae

<400> 4606

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ctctccgttc	cgtgacaat	tattgtcaaa	attggcctcg	agcagaccgc	cgggtggacaa	1020
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<210> 4607

<211> 363

<212> DNA

<213> Enterobacter cloacae

<400> 4607

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tattcaaact	ttcgtgaact	cacggttcac	catatcgacc	acgatcacac	caataacccg	180
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tacaccgaag	cggatcagta	tggcaccacc	gttgctcgcg	gtgaggatgc	gcaaaaagac	300
gtgggtgtcg	ccacgtttaa	cccccttgcc	gatctcaagg	cgatgatgga	caagaagaag	360
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<210> 4608

<211> 1038

<212> DNA

<213> Enterobacter cloacae

<400> 4608

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<210> 4609

<211> 843

<212> DNA

<213> Enterobacter cloacae

<400> 4609

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cagttcaaac	tcgatatcct	gtggtcgatg	ctcgacgcga	tgaccatggc	ctacgcgcta	780
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<210> 4610

<211> 1185

<212> DNA

<213> Enterobacter cloacae

<400> 4610

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ccttactgct	ctaaccgcgt	ggacttcgcc	cggcaggatc	aggagctgac	cactgaacag	180
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ctcgaggcgc	gacgcgaagc	agcctgtagt	gatatgaaga	tcggtcagct	tcagtttcgc	1140
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<210> 4611

<211> 465

<212> DNA

<213> Enterobacter cloacae

<400> 4611

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ggcggtaaat	cogtgttcga	gctgactcag	cagcaccacc	acgatcacct	gatctgcctc	300
gatttggtga	aggtcattga	atttagcgat	gattccattg	aatcgcgcca	gcgtgaaatc	360
gccgcccgtc	atggcatccg	cctgaccaac	cacagcctgt	acctgtacgg	tcactgtgct	420
gaaggtgatt	gccgcgaaaa	tgaacatgcg	cacgacgcaa	aataa		465

<210> 4612

<211> 240

<212> DNA

<213> Enterobacter cloacae

<400> 4612

aggaggcgta	tagcgctgt	attaaaaactg	cggaagaatc	ccccggagaa	aattgaagct	60
ttcaagagcg	tgttgaatgt	gttgaaaaaa	gagaaagcgc	atgagcagtt	tgcgacgcag	120
gaaaatgttc	gcgtgatgga	ttaccaggcc	tgtatccagg	cgcggaatac	cggtaacgat	180
caggaagtgg	cgaagcggtg	cgataagatc	tggaacgaga	tacgcaataa	caataaataa	240

<210> 4613

<211> 425

<212> DNA

<213> Enterobacter cloacae

<400> 4613

aaattgactc	catgtacaac	ctgcgcgatgt	attcacgcac	cggtcgctcgt	aaccgcgtct	60
acagcaccgc	aattggtaaa	gtactgctgg	cctggcgcca	tgcgaagag	gtgaagcaga	120
tccttgacgg	ggtggagtac	aaacgcagca	cgcaccgcac	cattaccagt	acggatgaac	180
tgctgagcgt	gctggataat	gtgcgtgagc	agggttacgg	ggaagataac	gaagagcagg	240
aagaggggct	gcgttgcatc	ggtgtgcggg	tatttgaccg	tttcggcggt	gtcattgcgg	300
gcctgagcat	ttcggttcca	acgctgcgtt	tctctgaaga	gcgtcttcat	gaatatgtgg	360
cgatcctgca	taccgcagcg	cgcaaaattt	cagagcagat	gggctataac	gattatccgt	420
tctga						425

<210> 4614

<211> 356

<212> DNA

<213> Enterobacter cloacae

<400> 4614

actatggcga	catttcatat	cagcttttaa	aaattacgaa	gatcagaagg	taaattcttcg	60
gtttatttat	ctgcatatca	aaaccgagaa	aagacaaaag	ataatcgaac	cggggcaacc	120
tgggattatt	caaaaaaaga	gggatttttc	ggctctgcta	tcctctcccc	tgccggcaca	180
cctgccgaac	ttgtgaagga	ctcaggcacc	ctctggaatg	ccgtagaggc	tgccgagaag	240
cgaaaggatg	ccgaactatg	cgtttatctg	gacatagcca	ttccaagga	gctggacgac	300
ggccagaaga	agcagatcgt	cctcgattac	tgccaagaaa	atttcgtgga	ttatgc	356

<210> 4615

<211> 303

<212> DNA

<213> Enterobacter cloacae

<400> 4615

atgagatata	tacatatgtc	tgaatatatt	aaagtatttc	tggcgttatg	ctcttttgtt	60
ttcactggta	cgctcgccca	tgcggccagt	tcaggtagca	tcacctttac	cggttcgggtg	120
aacagtgaac	cctgtgcggc	ggcggtaaat	aacggtaatg	cagatgcgac	agtaacatta	180
ccgcgcgtac	cgacatcagc	attaagtgcg	gcaggagcga	cagcgggggc	aaccacattt	240
acgattaatt	taacgggctg	tgagttttat	ccaagcgggg	cgaagggtcca	gcgctacttt	300
caa						303

<210> 4616

<211> 459

<212> DNA

<213> Enterobacter cloacae

<400> 4616

attatgttgt	ctgcgcgcgg	tggtgaagac	cagatgaaca	tcccgtatcg	ctttgccgat	60
aacggcggtg	cgcttgaagt	accggcagat	aaagtgcacg	agcttcgcct	gcgtctcgcc	120
cagcaggggc	tgccaaaagg	cggcgcggtt	gggtttgagc	tgctggatca	ggaaaaattc	180
ggcatcagtc	agttcagcga	gcagggttaac	taccagcgcg	cgctggaagg	tgagctggcc	240
cgtacgattg	aaaccttagg	cccggtgaaa	agtgcgcgtg	tgacacctgg	gatgcctaag	300
ccgtccctgt	ttgtccgcga	acaaaagtcg	ccttctgcct	ctgtgaccgt	taacctcgaa	360

cctggccgtg cgctggtttc cggcggggta atgcggctcc acgaaagccc catcatctgt 420
 tccaccagcg ccgccacgtc gtgccgggca agacgataa 459

<210> 4617
 <211> 477
 <212> DNA
 <213> Enterobacter cloacae

<220>
 <221>unsure
 <222>(58)

<400> 4617
 ccctctgata acagcgcgat gctggaaaag gcgattgcgc cgggtggcggc tgcaatgncc 60
 gatccgtcgc gcgtgaagat gctttgtgcg ctaatggacg ggcggtgcgtg gacggccact 120
 gaactgagtg cggcggcaga cgttgcgcgc tcgaccgcca gcgggcatct tgcccggctg 180
 gttgaagggc agctaattac ctgcctgtcg caagggcggc atcgttatta tcgtcttgcc 240
 gggcacgacg tggcggcgct ggtggaacag atgatggggc tttcgtggag ccgcattacc 300
 ccgcccggaaa ccagcgcacg gccagggttcg aggttaacgg tcacagaggc agaaggggac 360
 ttttgttcgc ggacaaacag ggacggctta ggcacgcgca ggtgcacacg ggcacttttc 420
 accgggccta aggtttcaat cgtacggggc agctcacctt ccagcgcgcg ctggtag 477

<210> 4618
 <211> 744
 <212> DNA
 <213> Enterobacter cloacae

<400> 4618
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 ggtggcggtt ggccggggtta gacctggctg atggacatgt tctaccagag cctgcccggc 120
 acgcgtaagc agcgtctgca ctttcaacgt tttatgctgc ggggtccatga agagctgacg 180
 gcgctccagg gcgaaaccga cccgctggag attgtggcgc atcgtttcaa ggccgaaacg 240
 gacgtgctct gcttcgacga gttctttgtt tccgatatta cggatgccat gctgctgggg 300
 ggctccatga aagcgtgtt tgcgcgtggg atcaccctgg tggcgacctc aaatatcccc 360
 ccggatgagc tttatcgcaa tggctctcag cgggcgcggt tcctgccagc catagatgcc 420
 attaagcagc actgcgacat catgaatgtc gatgccggcg tcgattatcg tctgcgcaca 480
 ttaacgcagg cgcacctgtg gctttcaccg ctgaacgccg acacagccag cgagatggat 540
 aaactgtggc tggcgtggc aggggcggcg cgggataagg cggcagcgct ggagattaat 600
 catcgcccg tgtcgacgct tggcgtagag aaccagacgc tggccgtctc gtttgcaacg 660
 ctctgcgtgg acgcccgcag ccagcatgac tacgggcgcg tttcacatct gggctgaac 720
 cagccggata gaatgatata tggc 744

<210> 4619
 <211> 339
 <212> DNA
 <213> Enterobacter cloacae

<220>
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 <222>(97)

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<220>
<221>unsure
<222>(159)

<220>
<221>unsure
<222>(160)

<220>
<221>unsure

<222> (161)

<220>

<221> unsure

<222> (334)

<220>

<221> unsure

<222> (336)

<400> 4619

tggcgtaact	gtgtcagaat	agagacttct	cttttcacga	cgccagaatg	tatgaaagcg	60
atcaactcttt	atgacgttgc	ccgcgtggca	ggcggttnnn	nnnnnnnnnn	nnnnnnnnnn	120
nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nggtccggca	ggccatggcg	180
gcgctacact	atgtgcccaa	ccgtggcgcg	cagcagctgg	ccgggaaacg	cacccgcacg	240
ctggggctga	tgaccagcga	tctggcgcta	catgcgccgt	cgcaaattggc	ctcaggtctt	300
cacctcgagg	ggagccggaa	ccgcgaaagt	actntntaa			339

<210> 4620

<211> 426

<212> DNA

<213> Enterobacter cloacae

<220>

<221> unsure

<222> (7)

<220>

<221> unsure

<222> (58)

<400> 4620

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ccggcagatg	cgtaaatggc	ggtgatccct	gagctcactt	cggtgcccg	gcgcatac	120
ctgctggttt	ccggcattgt	ggttaacgcc	cttgccaccg	ggatgtatat	cggcgcgggt	180
tttggcgag	gcccgcgcga	cggcctgatg	acgggcatac	acgcccggct	gggctggtcg	240
atccgcagcg	tgcgtaaccg	gategaggtg	actgtgttga	tcgtcggcta	cctcctcggg	300
ggagcgtttg	gcgttggaac	cgtgctgtat	gcattaacca	tcggcccgc	gatccagctc	360
tgtttgccgt	ggtttcgcca	gagaccgcgc	attcagaaag	ctgcacagcc	ggagcggatt	420
gttttaa						426

<210> 4621

<211> 385

<212> DNA

<213> Enterobacter cloacae

<400> 4621

ttcgctttgt	ggagattggc	agcgctcttt	aatgatgatt	acaatggcaa	aaaatttagg	60
tttttccaaa	gcaacattgc	gtaagggtgg	agccaatagt	gatggtgatg	gctttttatg	120
ctttgtctga	cacggaaata	gcatggagcc	agtgatecgt	gatggctcta	ctgttgccat	180
aaactgccat	gacaagcgta	tcgttgatgg	taaaatttac	ggcatcaacc	aaggtggatg	240
gaaaagggtta	aaaatcctct	acagatctgg	gccagataag	gtgacaatca	gaagctataa	300
ctctgatgaa	taccctgatg	aagaagtaga	catggatagc	cttgagggtt	taggaagact	360
gttttggtga	tcaacaattt	tctga				385

<210> 4622

<211> 1290

<212> DNA

<213> Enterobacter cloacae

<400> 4622

cgtttcttcg	gtgatgccat	gcgccagttg	cagccaaaaa	cgaatgcggt	ttttggtggc	60
cagtatcata	ttgccggacg	tgacgtgacg	tacgaacctg	ccacgcaggc	agacggacag	120
ttcgctgcaa	aaggcgaggt	gacacccgcc	aaatgggtgg	aagcagaaca	gctgttcggc	180
tgccttcgtc	agttcaatgg	cgatgtgtca	ctgcaaccgg	ggctggtaca	ccgcgcgaat	240
ggcggcctgt	tgtcatcttc	ccttcgcacc	ctgcttgcgc	agcctctgct	gtggatgcgc	300
ctgaaaacgg	tggtagcgca	gcaacgtttt	gactgggtag	gctacgacga	ttcgcgtccg	360
ctgcctgtat	coattccgtc	tatgcccgctg	tcgatgaccg	tcgtgctgac	gggcgaccgt	420
gaatctctgg	ctgattttaca	ggaaatggag	ccagaactcg	cggagcaggc	tgtctatagc	480
gaatttgaag	ataatattca	gatcgccgat	gccgatgaca	tggcgagtg	gtgtcagttg	540
gttatggcgg	tggcggaacg	tttcgcactg	ccctcgccgtg	ccgaggatgc	gtggccgggc	600
ttaatcccg	agggcgtagc	ctacactggc	gatcaggaaa	ccctgccgct	ctgcccgtc	660
tggatcggt	aacagctgcg	tgaagtgggg	gttatcagcg	gtaacgggtc	gtttaccggg	720
gagcagctta	gccagatgct	ggcccagcgt	gaatggcgtg	aaggttatct	tgctgaccgt	780
atgcaggatg	aaattctgct	ggaacagatt	ctggtggaga	ccgaaggcga	acgtatcggg	840
caaatcaacg	ccttgctcgt	catcgagttc	ccgggacacc	cgcgcgcctt	tggtagcct	900
tcccgatatc	gctgtgtcgt	acacattggg	gacggcgaat	ttaccgatat	cgaacgcaag	960
gccgaactgg	gcggaacat	tcattgcaaaa	ggcatgatga	tcattgcaggc	gttcctgatg	1020
tctgaacttc	agctcgagca	gcagatcccc	ttctctgcct	cgttgacctt	tgagcagttc	1080
tacagtgaag	tcgacggcga	cagcgccctca	atggcggagc	tgtgtgccgt	gatcagcgcg	1140
cttgacagcg	tgccgattaa	ccagaatatt	gcgattaccg	ggtcctgtga	tcagtttggc	1200
cgtgcccaac	cgggtgggcgg	actgaatgag	aaaatcgaag	gttcttcgca	atctgcgtct	1260
tcacccacgg	gggctggaag	gtcatgcgct				1290

<210> 4623

<211> 1028

<212> DNA

<213> Enterobacter cloacae

<400> 4623

agacgggtta	gtccattgtg	ccgccttagt	aattttttcac	tagggcagcg	cacactattg	60
aagtttttgc	cggttttgcg	tcgtgaagat	actttttcatt	atgggtgttac	ttattggcat	120
ctggcgcatc	agcttccatg	ggttacaacc	tgccatcggc	atccggtagc	gcttgaaagc	180
atccatgtcc	cttctttcacc	gcacatacgt	attggactga	tgccctctgt	ttcgtataca	240
gaacaactta	gcaatgagat	agacttccgat	tttgctaagt	tttgttatga	gtccctaaat	300
ataatcagaa	gaaaagatat	tacacacccc	aattacatgg	atgtacttaa	aaagttgaat	360
ttattatcat	tggatggaaa	tttaaagaaa	aatgtattct	acgcacatgt	ttatgctaag	420
tgccagttat	ttggggaggg	ttcatcgggg	cttataccaa	catccctaac	tgattatcat	480
tactgggagc	ctatactcaa	agacaaatgt	tgtcagcatc	ccacaaagca	tcttttgcct	540
tgttaattgt	tgttaaatac	ttgctggcca	acgtatgcag	gaagtcgtac	taataaaaaag	600
aaagaaatct	ttaaaagtca	taagaaatac	agttttcata	tagttgaaaa	taataactagt	660
gttagcaacc	ttgggaagga	atttagtcgc	agcagatggt	acattaaaaac	acttatttat	720
aaaaaatacc	tgaggggcgt	taagcgaaac	acaaaaatta	atatattcac	tgaattgcct	780
atcaagtcta	tggctgtaag	ggggttttag	ctggcatcca	tagctgagaa	aaactcatta	840
tcggaaggag	ctgtatccct	tgtaatctca	tcttgttacg	gtttatgctc	atggcgtaaa	900
aatgtataaa	aagattcttt	aagacggcgt	cataagcaga	aatattaag	atttatacat	960
aatcaatccg	tttctataac	acgaaagtta	gtcaatcttc	acgacggggc	tgaaaggaaa	1020
cgcgctac						1028

<210> 4624

<211> 246

<212> DNA

<213> Enterobacter cloacae

<400> 4624

accttcgagc	ccgtgggtgaa	gatgtctgag	aaacgtgctc	agtctgtagt	tgattacctg	60
gtatctaaag	gtatcccagc	taacaagatc	tccccacgtg	gtatgggcga	atctaaccga	120
gttacgggtt	ctacctgtga	caacgtgaaa	ccacgcgctg	cactgatcga	ctgcctggca	180
ccagatcgtc	gcgtagagat	cgaagttaaa	ggatatcaag	acgttgtaac	tcagcctgcg	240
gcataa						246

<210> 4625

<211> 483
 <212> DNA
 <213> Enterobacter cloacae

<400> 4625
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 agcggctgga aatggaagta cctgggtcaaa aagcaccgtg aaggggagct gatcacctgc 120
 tacatcgaag ccagcgcggc gcaagaagct gtggatatgt tgctgacctt cgaaaacgaa 180
 ccggtactgg tcaacggctg gattgagaaa cacattaatc cggccctgtt aaaccggatg 240
 aagcaaaacta tccgtgctcg tcgtaaaacgg catttcaatg ccgagcatca gcacaccctg 300
 aagaaatcca tcgacctgga gtttatggtc tggcagcgtc tggccgggct tgcgcaacgg 360
 cgcgggaaaa cctgtcgga aacgggtggtg cagctgattg aagatgccga gcacaaagag 420
 aagtatgcca gccagatgtc gacgctgaag aacgatctac aggcactgtt aggtaaaaaa 480
 taa 483

<210> 4626
 <211> 198
 <212> DNA
 <213> Enterobacter cloacae

<220>
 <221>unsure
 <222>(109)

<220>
 <221>unsure
 <222>(131)

<400> 4626
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 gtcgccaata tgctgtacac gtttccagtc gggccgggtt tccagccng gggcaatata 120
 ccggcgagtc ntgggaggag ggagtttagg gtattggaga tttttatccc gtccgcggca 180
 agcgcctgct gggatatga 198

<210> 4627
 <211> 822
 <212> DNA
 <213> Enterobacter cloacae

<400> 4627
 ggtattggag atttttatcc cgtccgcggc aagcgcctgc tgggtatgac cgagccaggc 60
 aaggcattgc tgaccatcgc tgagcgcatt ctcaacgagg ccggcaacgt tcgccggctg 120
 gcggatctct ttaccaacga cgttccgggt gtgatgacta tcgccaccac ccatacgag 180
 gcgcgtaca gtcttccgac gggtatcaaa gcatttcgtg agatcttccc ggacgtacgt 240
 ctcgaaactga tccagggcac gccgcaggaa atcgaaagtgc tgatgcataa cggcggggcc 300
 gatatcggtg tcgccagtga acggtgagc aacgacccgc tgctggtggc gttcccgtgg 360
 ttccgctggc accacagcct gctgttacc gccgatcacc cgtgaatca ggtttcgccg 420
 ttgacgtgg aagagatcgt caaatggcgc ctgattacct accggcagg cattaccggg 480
 cgtcgcgcga ttgatgaagc gttcaagcgt aaagggetca cgcggagct ggtgctgagc 540
 gcgcaggatt ccgacgtgat caagacctac gtgcagttag ggctggggat tggcctggtg 600
 gccgagcagt ctggcggaga atatgaggcc ggaaatctgg tgcgtctgga tacgcgtcac 660
 ctgttcgatg cgaataaccgt ctggctgggg ctaaagcgcg gccagcttca gcgtaaatat 720
 gtgtggcgtt ttattgagct atgcaacgcg gggctgtcgg tggatgagat caaacgccag 780
 gtgatggagc cggaagaggt ggcgattgat tatcagattt ag 822

<210> 4628
 <211> 219
 <212> DNA
 <213> Enterobacter cloacae

<400> 4628

gatacgggtcg	agtcgatggg	ccgggcatta	cgtaccggga	actatagcgt	cgtgattggg	60
tggttgccctg	aggatctgtc	gcaagaggaa	catttgcgtc	tgactgaagc	ggctgaagaa	120
ggtaacgcga	tgggtttcat	catgcggcca	gttcgtggag	attcctatcg	cagaggacaa	180
catcccgggc	taaaaattca	ctcaaattgtg	taccattga			219

<210> 4629

<211> 426

<212> DNA

<213> Enterobacter cloacae

<400> 4629

ataacacaaa	tcttcatgga	gtttatcatg	ttcaaatega	tcatgaccgt	atcactgctg	60
gccgccgcta	ttgcctctac	cagcgcagtg	gccgcagaca	attcagcggg	tggtatcatt	120
aactttaccg	gcgctattac	cgatacaacc	tgtaccatta	acggcggtaa	aagcgcagac	180
tttaccggtg	cgctttcccc	tatttcggta	aaagatgcag	gcaccacggg	tgacctgac	240
actaagaata	aaaaatctat	tgcgctgact	ttctcagggt	gttcaccagc	agccggaacg	300
accggcacc	cgctgaaagt	gtattttctc	agcgcggata	atatttccac	tgacggtaaa	360
tacctgctga	ataacagcgt	gaacgaaagc	gatgccagcg	tggcacgtaa	tgctgggttt	420
gcgtta						426

<210> 4630

<211> 1026

<212> DNA

<213> Enterobacter cloacae

<220>

<221> unsure

<222> (1017)

<400> 4630

ggttccgggc	cgccgctgaa	accaacggctg	cgttctatcg	gcgctgccgt	cgatcctcga	60
cgcgatcgcc	cacgtgctcc	ggtgaccggg	cggtatggcg	cgccggtgtg	ccccgccggg	120
ttcgaccgca	cctcgacgca	ccggcgcggg	atgctggcga	aggtgcata	cgccaaggctc	180
cagttgggga	tgagcgacga	cgactatgtc	gcggctcctg	tccgcgcgac	cgggcgggacc	240
agcgcggccg	agtgcaccga	cgcgcagctc	gaacgcgcgc	tgccggaatt	caagcggctt	300
ggcttcgagc	cacaggcgcg	ctgcgcgaaa	gcggcgaaac	cagcggatca	tcctctcgct	360
ctgaaggcgc	ggcgctgtg	gatctcgctg	catcacctgt	gcgcgatcgc	cgaccgctcc	420
gaaaaggcgc	tggaggcctt	cgcgcggcgc	cagctcgggt	gcgatcgggt	ccaatgggcg	480
aaccagtgcg	agggccaccg	cctgatcgag	gcgctcaagg	cgatcgccgc	gcgtcacggc	540
tggaaacctg	ccatggatgg	ggtgaagcct	gaggcgggtg	tgatcgtcac	caagcggcgg	600
ctggtcgacg	cgatcgcccg	ccaagctgcg	cgcgcgcgac	atcgtgccgg	acgggtggag	660
cgagcggga	atcgacggc	agctgaccgg	gatcgagggt	gactcgatcc	tggttcgcaac	720
cgacggggaa	ctggaccgca	tgcgccaggc	gcccggcgcc	caagctgcgg	gcggcgatgg	780
aggccggggt	atgatcgcg	ccgcaccccg	cgatatgtgc	gtgctgtatc	gcgcgcgcga	840
gctctgcccg	ggatgtggcc	gctcgcaact	gctggtcgga	cggttctcgg	cggaatgcgc	900
atggtgccac	ctcgcgctgc	cccttgccgc	ggcgcgtgcc	gagcggatcg	cggcattgacc	960
accagaccc	agatcgcttc	gcggaacgaa	cagattgagg	agttggccgc	gaggccngtt	1020
tttag						1026

<210> 4631

<211> 282

<212> DNA

<213> Enterobacter cloacae

<400> 4631

tgctgtcttc	gtgtcctcgc	tgtcgcgcgt	cgccctgctg	tttttttggc	gcgtgtgctg	60
gtcgagcgct	ttccgctgtg	cctcgggttt	ctgggcctgg	tttccttcgg	ggctgggtggc	120
ctgtatatag	gcctgcgtac	tattccggtc	atttttgaca	tcattaaaga	cgtggaggac	180
atctgcccga	acgcctgggt	gattaaactt	accaaccggg	ccgggatggg	caccgaggca	240
gtctatcgcc	ataccggttt	caaacgcttt	atcggcgtct	gc		282

<210> 4632

<211> 345

<212> DNA

<213> *Enterobacter cloacae*

<400> 4632

atcgcgtttc	ctgccagtc	cgtcggttta	agacacttga	aggtttccgt	gattcggttt	60
cttgtatttc	cggctctgca	atcttggtcg	gtggatgttg	atgatggctc	ggagttgctg	120
atcttttttt	ttgttctgtg	ctttcgcctg	gttgattttg	cgggcgtgcc	cttttccttg	180
cttttttcgc	tggttcgtcg	cctggctctg	tttgatgctg	tcttcgtgtc	ctcgtgctg	240
cgcgtcggcc	tgtgttttt	ttggcgcgtg	tgctggctga	gcgctttccg	ctgtgcctcg	300
gttttctggg	cctggtttcc	ttcggggcgt	gtggcctgta	tatag		345

<210> 4633

<211> 687

<212> DNA

<213> *Enterobacter cloacae*

<400> 4633

tttgccaacc	agcgcgagcg	ccagtcactc	tttttctcca	ccaccttcga	ggtgatgggg	60
cacttaacca	aatcaaaagg	gcgcgtaacg	gaagccgata	ttcaggtggc	cagcgtcttt	120
atggatcgca	tgaatctgca	cggcgaatcc	cgcacgcag	cgcagaatgc	gttccggatt	180
ggtaaatcag	ataactaccc	gctgcgtgaa	aaaatgcggc	agttccgtag	catctgtttc	240
gggcgttttg	atttaattcg	gatgtttctg	gaaattcaaa	tccaggccgc	cttcgcggat	300
ggttctctgc	atccgaatga	acgggacgtt	ttatatgtga	ttgccgaaga	gctgggcatt	360
tcccgcatgc	agttcgacca	gtttctgctg	atgatgcagg	gcggcgcgca	gtttggcggg	420
ggttatcagc	aacagcactc	ctccggcggc	tggcagcagg	cgcagcgtgg	ccctacgctt	480
gaagatgcct	gcaacgtcct	cggcgtgaag	ccgtctgacg	atgtcacgac	catcaaacgc	540
gcctatcgta	agctgatgag	cgagcaccat	ccggataaag	tgggtggcgaa	aggcctgccg	600
ccagagatga	tggagatggc	gaagcaaaaa	gctcaggaaa	ttcagaaaag	ctacgagctg	660
attaaagagc	agaaaggttt	taaataa				687

<210> 4634

<211> 579

<212> DNA

<213> *Enterobacter cloacae*

<400> 4634

gcgggcgtca	acgtcccgga	cagcgtgttt	tatacctctg	cgatggcgac	cgcggatttc	60
ctgaagcgtc	aggaaggcaa	aaaagcctat	gtgggttggtg	aaggtgcgct	gatccacgag	120
ctgtataaag	cgggcttcac	catcacgcac	gtgaaccggg	actttgtcat	cgtgggcgaa	180
acgcgtcctc	ttactggga	gatgatgcac	aaggcagcct	actttgtcgc	caacgggtgcg	240
cgttttatcg	ccaccaaccc	ggacaacgcac	ggctgtgggt	tttatccgcg	ctgcgggtgcg	300
ctgtgtgccg	gtatcgaaaa	aatctcgggt	cgtaagccgt	ttgttgtcgg	taaaccgagc	360
ccgtggatta	tccgcgccgc	actgaatacg	atgcaggcac	actcagaaga	aaccgtcatt	420
gtgggcgaca	acctgcgtac	cgatattctt	gctggcttcc	aggcggggct	tgaaccatc	480
ctggtgcttt	ctggcgtttc	acagcttgat	gacattgata	cgatgcgctt	ccggccaagc	540
tggatttacc	cctctgtcga	cgaaatcgac	gttattttga			579

<210> 4635

<211> 345

<212> DNA

<213> *Enterobacter cloacae*

<400> 4635

aacgcttgcg	ccccctcccc	tttttgccgc	atcttcataa	gcaagcaaca	tcacaacgca	60
acagggttaa	cggagaaggt	tatgtgttct	atctttggcg	tactggatat	taaaactgac	120
gcgggcgaac	tgcgtaaaaa	agcactcgaa	ttgtcccgcc	tgatgcgcca	tcgcggtccg	180
gactggctcag	gcgtttacgc	cagcgataaa	gcgattctgg	ctcacgaacg	tctctccatt	240
gttgatgttc	acgctggcgc	acagccgctg	tataacgaga	aaaaaacgcc	cgcgctggct	300
gttaaaccgg	aaatttacca	acatcaagcc	ctgccccccg	aataa		345

<210> 4636
 <211> 684
 <212> DNA
 <213> Enterobacter cloacae

<400> 4636
 agattaatta tgaaatatca gttcttttgg tcttcaacgc ctaaaatata tgagctttta 60
 ttaaatctaa caattggaat agctattata aattatttgg ttcccactga acaagggaaa 120
 atagggtttt taataaattt atgcatgttg ttaagttttt taactacttt aggtataggt 180
 ccagttttct caaattttgt aagcagatca aataattaca atctaatttc aggaaagttc 240
 aaggatagta ttctgcttcg cttttgtggc tatattgtat ttttagttat atcttttttg 300
 cttattttata taataaagcc caatctttta attcttgcta ttctttttt gctagggaaa 360
 tttttcttta gcctcgatat ttattataat tttgttgaag gtcaggggag atttaaagat 420
 tatgcaattt caaaattctt ttctttgaca ttaataaatg gcttcagatt gtattgtgtc 480
 gttcaaaaac ttgatgtctt ttgggtagct gtttcatact ttttaactga cttccttacc 540
 tttttcatgt attttatctt ttatgataag ttaaagcttt taggattccg ttttaattat 600
 aaaaaatcgt tagttttatt aaagataaat tataagctcg ctctgtcttc actacgaagg 660
 tgccggagcc gcgatatcac atcc 684

<210> 4637
 <211> 594
 <212> DNA
 <213> Enterobacter cloacae

<400> 4637
 cccattgcca gactgggtgca ggactatcct attaaatcct gttcgggtgat cgcccatatc 60
 cgccaggcca atcgcgggcga agtggcgctg gaaaataccc atccgtttac ccgtgaactg 120
 tggggccgta actggacctt tgcgcacaac gggcagctct cgggctataa atcactggaa 180
 accggcaatt ttgctcctgt cggtgaaaacg gacagcgaaa aagcattttg ctggctgctg 240
 cacaagctga ccgagcgcta cccccgtacg ccgggcaaca tgaccgccgt ttttaaatatc 300
 atagcgtcac tggcgctctga gttacgcgag aaggggctct ttaatatgct gctgtctgac 360
 gggcgctacg tgatggcggt ctgctcgaca aatctgttct ggatcacccg acgtgcgcgc 420
 tttggcgctg ccacgctgct cgatcaggat gtggaaattg attttcagaa ggagaccaca 480
 ccgaacgatg tggtcactgt cattgcaacg cagccgctga cgggcaacga aacctggcaa 540
 aagatcatgc caggcgagtg ggcgctatct tgtctcgagg accgcgtaat ttga 594

<210> 4638
 <211> 987
 <212> DNA
 <213> Enterobacter cloacae

<400> 4638
 acgttgatct tccagccgcg gtgcgtgaag atcttatttc tggcttcact gctcttcatt 60
 gcacctgccg ctttcgcgcg aaccacctgg cccctcacga ttgaaaattg cggcgtaaag 120
 cagaccttta cgcaggtctc tcagcgcgct gtgacgctgg gtcagcatga aacagaatta 180
 ctgctgcac tggggctgga gaaaaccatc gccgcgacgt cagtctggtt cggcacgctg 240
 ccacccacgc tggaggatgc cgggaaaaac ctccccggc ttgcgatta ttccccctcc 300
 tttgaggccg tggtagggca gaaacctgaa ctggttctcg cgcagtatca ctggcacatt 360
 ggtccgcagg gagaagtggg aaccctgtaa cagtttgcgt cgctggggat taatacgtgg 420
 atctccccg ccgactgcac ggataaaacg gtaacggaaa cctcaaacgc agacggagca 480
 cgtagcgcgc cgttttctact ggcggaaatt acgcgggaag tgacagatct ggcgacgatt 540
 tttgatgttt ccgcgcgagg tgagcagctc aatcgtgcgc tggcgagcgc tattaataag 600
 gccagggcgc gcgcctccgc gaaacaactt agcgtcgtat tctggttctc cagcagccgt 660
 ctgaatggcg atccctgggt ggcggggaaat tacggcgcgc ctggttgat tagccgcacg 720
 ctgggggttg agaacattat tgactctcac gacgaattgc ccgctgtaac gtgggaacat 780
 attgccgat cgcagccgga cgtgattggt atcgccggga tgtccgcag gctctatcct 840
 gccgatgagg ttgaggtaaa aaaagcgttc ttgcgcagtg acccggtgac aaagaacatg 900
 cctgcggtca ggaacaacca catcatcgtg gtgccagcga tgtcgttaaa ccttctattg 960
 cgtaacgtcg atgcggttga gcttctc 987

<210> 4639

<211> 222

<212> DNA

<213> Enterobacter cloacae

<400> 4639

ggctacacac	gtgctacaat	ggcgcataca	aagagaagcg	acctcgcgag	agcaagcgga	60
cctcataaag	tgcgtcgtag	tccggattgg	agtctgcaac	tcgactccat	gaagtcggaa	120
tcgctagtaa	tcgtggatca	gaatgccacg	gtgaatacgt	tcccgggcct	tgtacacacc	180
gcccgtcaca	ccatgggagt	gggttgcaaa	agaagtaggt	ag		222

<210> 4640

<211> 1035

<212> DNA

<213> Enterobacter cloacae

<220>

<221> unsure

<222> (105)

<400> 4640

ccaaagcgcc	ggccgagcgg	cgccatggag	ctggacaatg	ccaacaacgt	gggcggttat	60
cggggttaca	gcattaccaa	cctcgcgcgg	ttcctgcaag	ccagntatga	cattgacgcc	120
atcaccctga	gcggcgcggt	gcggttatcag	tacaccgaaa	acaaggtgga	cgattttgtc	180
ggttacgccc	agcagcaggc	aatcgccacg	ggcaaagcca	cctccgctga	cgcggtgccg	240
ggcgggaaaa	cgcactacaa	caacttctctg	tttaacgcgg	ggatcccttg	acgtctgacc	300
gaacagcaac	agctgtgggt	taacttctctc	cagggtctcg	agatcccgga	cctggcgaag	360
tactacggct	ccggcaccta	tcagctggtc	gatggtcact	atcgtctgca	aaacagcgtc	420
aatgtgaacg	actcaacgct	ggacgggatt	aaggtcaatg	cttacgagct	cggctggcgc	480
ttcaccggcg	ataaactgcg	taccaggtg	goggcatact	actcgtctctc	ggataaaaacc	540
atcaccatca	acaagagcga	catgaccatc	aacctggagg	acgacaaacg	tcgtatctat	600
ggggttgaag	gccaggtgga	ctatttctctc	accgacagcg	actggagcac	cggggcgaac	660
tttaacgcca	tcaagtccga	aacgcgtgaa	aacgggaaat	gggagaagct	gacggtcgac	720
agcgccagcc	cgtctaaagc	cagcgcgatg	gtcaactggg	cgccgggcga	ctggacgcta	780
cgcgctcaga	gcacacaaac	ctttgacgtg	tctgacgcgg	acggtaaagaa	gattgatggc	840
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gtggagaacc	tgctggacaa	agactacacc	accgcctggg	gccagcgcg	accggggctg	960
tatagcccaa	cctacggcgc	accgggtctg	tctacttatg	tcttctccac	gaggcggcca	1020
agaatacgca	gaaaag					1035

<210> 4641

<211> 614

<212> DNA

<213> Enterobacter cloacae

<400> 4641

cggaacaata	aaatacaacg	tatgaaaaaa	cgtatcccca	cccttctgga	cacaatgatt	60
ggcaccgccc	tgtatagcca	acaggggctc	gcagcgatc	tcgcctcgca	gtgtatgctt	120
ggcgctccaa	gttacaatcg	ccaactgggtg	aaaggcgata	cgaatgactt	accgctcacc	180
attaatgccg	acagcgcaaa	aggtaattat	cctgacaatg	caacctttac	gggcaatgtc	240
gatattaacc	agggcaacag	tcgcctgctt	gctgacgaag	tgcaattgca	ccagaagcaa	300
ccggaagggtg	ctcaggcgcc	tgtcogtaog	gtggatgcgc	tgggtaatgt	gcactatgac	360
gacaatcagg	tcatcctgaa	agggtccgaaa	gcctggctga	atctgaatac	caaagacacc	420
aacgtctggg	aagggtgatta	ccagatggtc	ggctcgtcagg	ggcgcggtac	cgcggaacctg	480
atgaagcagc	gcggcgaaaa	ccgctacacc	attctcgaaa	acggcacggt	tacctcctgt	540
ttgccaaagt	caaatacctg	gagcgttgtg	ggcagtgaa	tgatccacga	ccgtgaagaa	600
caggttgacg	agat					614

<210> 4642

<211> 366

<212> DNA

<213> Enterobacter cloacae

<400> 4642

gtggaaacaa	caaaattatg	gatttcatta	ggcactattg	tcagccctat	tactggaacg	60
tttttcacca	agataattac	gcaatataac	cataaatacc	tgctctggta	taatggagaa	120
tatcttatca	aaccgggtga	taacattaag	gttaacaaca	acggaattgt	tatatcagaa	180
aaattacgga	agattaatat	aatacaaat	gacaagtata	gcccgcgcgt	ctggcgagtc	240
atgcacaaca	tgtccagctg	ccctggcgat	aaagaacctg	aaaattcatt	ttgtacatcc	300
tccgtccgct	gtattttcaa	aacctgccct	tatggtaaga	aacggagaaa	cgcatgtaaa	360
cgctga						366

<210> 4643

<211> 801

<212> DNA

<213> Enterobacter cloacae

<400> 4643

gactcgggcc	actacaataa	aagtttgggg	tggttgatcat	tattcgcagg	cactgtatta	60
ctcagtggtc	gcgattctgc	actactagac	cccaaaggac	agattggact	ggaacaacgt	120
tcattgatac	tgacggcttt	tggcctgatg	ttgattgtgg	ttattcctgc	catcttgatg	180
gctgttggtt	tcgcctggaa	gtatcgtgcg	agcaataaag	atgcgaagta	tagccctaac	240
tggtcacact	ccaataaagt	ggaagctgtg	gtctggacgg	tacctattct	gatcatcctg	300
ttccttgctg	tactgacctg	gaaaaccact	cacgcacttg	agccgagcaa	accgctgggt	360
cacgatgaaa	aacctattac	cattgaagtg	gtctccatgg	actggaaatg	gttcttcac	420
tatccagaac	agggcattgc	taccgtgaat	gaaatcgctt	tcccggcgaa	cactccgggt	480
cagttcaaag	tgacctccaa	ctccgtaatg	aactccttct	tcatcccacg	tctgggcagc	540
cagatttacg	cgatggccgg	tatgcagact	aacctgcacc	tgatcgcgaa	tgaagcaggc	600
acctacgaag	gtatctccgc	cagctatagt	ggcccgggct	tctcgggtat	gaagttcaaa	660
gctatcgcta	cgccagaccg	cgcgactttc	gaccagtggg	ttgcaaaagc	gaaacagtct	720
accaacacca	tgtctgacat	ggcggcggtc	gaaaaagtgg	ctgcacctag	cgaatacaac	780
aagggtggag	tacttctcta	a				801

<210> 4644

<211> 441

<212> DNA

<213> Enterobacter cloacae

<400> 4644

cctgcaaccg	ggcttttccc	tcagtgggtc	aggtgccctg	gcacaggcgg	cgttgacctg	60
cgacagagtg	gtgcaatttt	gatgaagcgc	gtagcgtttg	tttttacttc	tgccgcgcac	120
ggcagcgctt	caggccggga	agggctggat	gcattgctcg	cgacatcggc	attaaccgaa	180
gatatcgggc	tcttcttttt	aggcgatggc	gtattccagc	ttcttgccag	ccaacaaccg	240
caggccattc	ttgcgcgcga	ctacattgcg	acctttaaag	ttctgccgct	ctatgacatt	300
gaaaccttct	atgtgtgcgc	cgactcgctg	gcgcgcgcgt	ggttaaacga	gaaaacaccg	360
ttcgtgctgg	acgtgacgat	cctgacactc	gctgcgctgc	gcgaacaact	ctctcactac	420
gataccgttc	tgactttctg	a				441

<210> 4645

<211> 441

<212> DNA

<213> Enterobacter cloacae

<400> 4645

ataattcccc	cggtttccaa	aagcggggac	ttttcttggg	acaagacaag	taatgcgttt	60
tgcgtaaatg	gtgacgggcc	ccggcgtaag	gtacccagcc	gggccagcag	cgcggtacag	120
tttgcccatg	cgctgcttga	tgccggctcat	gaactggcaa	gcgtcttctt	ctatcgtgaa	180
gggtctata	acgcgaacca	gtttacgtcc	ccggcgagcg	atgagtttga	ccttgtgcgc	240
gcctggcaaa	aattaaacga	aacgcagggc	gttgacctgc	atatctgcgt	cgcggcggca	300
ctgcgtcgcg	gcgtgacgga	tgcgaccgaa	gccgaacgcc	ttggtctggc	gggggctaac	360
ctgcaaccgg	gcttttccct	cagtgggtcta	ggtgccctgg	cacaggcggc	gttgacctgc	420
gacagagtgg	tgcaattttg	a				441

<210> 4646
 <211> 615
 <212> DNA
 <213> Enterobacter cloacae

<400> 4646
 cataagttgg atcggcaggc ccgtggtgaa gaattaagga ttattttcat cttactttcc 60
 gacgtatttta atttgtatcg tgactcgcat gtaaaatata agcagtcctta tcaaaattcc 120
 atccgcgacc cctcaccocg tctttataat cgcagctatt tctatgattc attaaatcac 180
 gcgctaaaca cggccacggt gacacatccg gtatcgggtg tcttgagcga tcttgaccgt 240
 tttaaacgca ttaacgactg ctacggtcac ttgcaggggg atagggtttt acagtttgct 300
 tcaaacctgt tgaccgattc ggtgogaccc caggatatcg cggcgcgcat cggcgcgcaa 360
 gagtgtgtgc tcatgctgac aaatacaccc tccgatgtcg cgcatacagg tgccgaacgt 420
 attcgctca agttgagcgg gtttgacaag gccagcagcg gtgggcagct tccggaaccg 480
 attaccatta gtatgggagt attcaccgct acctcgccgg aaaccagcgc tgaaacctgt 540
 gtggaaagcg cggataaagc catgtacgag gcaaaagaga cgggcccga cgggtggtg 600
 gtgttcagaa catga 615

<210> 4647
 <211> 390
 <212> DNA
 <213> Enterobacter cloacae

<400> 4647
 agacgtgctc tgattgacca tgcctgaaa cctctggaac tcacacagac gcactgggtt 60
 acgctgcaca acatccatca gcttccgccc gatcagtcac agatccaact ggcaaaagcg 120
 attggtattg aacagccttc cctggtgctg accttgacc agctggaaga gaagggactc 180
 atctcccgc aaacctgcgc cagcgaccgt cgcgccaaagc ggatcaaatt gacggaaaaa 240
 gcggccccga ttattactga gatggaaacc gtcatacagta aaacgcgagg ggagatcctg 300
 gccggtattt caccgctga gctggagatg ctgacgagac tcacgcccgc tcttgagcaa 360
 aacatccacg atttacagtc gcgcgactga 390

<210> 4648
 <211> 468
 <212> DNA
 <213> Enterobacter cloacae

<400> 4648
 cgcctggaag gaagtaaaac gcacaggga tggcgcgttc ccgttgctcag gcagctgcgt 60
 ttgcggttgc agcttctcct gtcacgggca acagaagctg gagccggggc aaaagataac 120
 cttttcgatg tcagttttta cattgccgga agaaaggcaa agtttgaaag aaatgatgtg 180
 agtgtgatgc atcaaaagat ccgctctttc ttctgacgcc tgtcaaagga gtgcggtttt 240
 gccgtttcac cgcaccgttt cagacacact cttgccacgg aactgatgaa agcgcgccga 300
 aggaatcttc aactggttaa agatttactg ggtcatcgta gtgtcagtac aacaatggaa 360
 tacgtggagc tcaggatgga cattgtggga aaaacactgg aagaagaact gtctctgcac 420
 acagatctct gtgtagaaa ggaattacaa ctattgacac aaaactga 468

<210> 4649
 <211> 402
 <212> DNA
 <213> Enterobacter cloacae

<400> 4649
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 tcaccgggaa acgtgacgtt gaagaccata gaagggtgtg tacggaatgt tcctttctat 120
 ggtgaaatcg ccgggagccg ggtaaaaaaa ggtccctggt ggctgattat attaaagcgt 180
 tggttacaaa aaagcctgac gcggggattc agtcacttca accccgacca gtataatggc 240
 gcctgtctgt taggattgct cggcatcgtg attaagagtc atggcgccgc caatcagcga 300
 gcatttaccg tcgcgattga acaggcagtg caggcggtgc agcgtcaagt ccctcagagg 360
 attgccgctc gcctgggatc tgtattagct aaaagtgaact ga 402

<210> 4650

<211> 519

<212> DNA

<213> Enterobacter cloacae

<400> 4650

gcgtacatgt	atacgaagat	tttaggtacc	ggcagctacc	tgccaaaaca	agtgcgtacc	60
aacgccgata	ttgaaaaaat	ggtagatacg	tctgacgagt	ggattgtcac	gcgcacaggt	120
atccgtgaac	gtcgtatcgc	cgcgccagac	gaaactgtgt	ccaccatggg	ctacgaagcc	180
gctcagcgag	cgtttgagat	ggctggcatt	gataaagaac	agatcgggct	tattgtggtg	240
gcgaccacct	ctgccacgca	tgccttccca	agcgcagcgt	gccaggtgca	gaacatgctc	300
ggcatcaaa	gctgcccggc	atttgatggt	gcagcagcat	gcgcgggttt	cacctatgca	360
ctgagcatcg	ccgatcagta	tgtaaaatcg	ggcgccgtaa	aatatgcgct	ggtgatcggc	420
gctgacgtgc	tggcgcgtac	ctgcgatcca	accgatcgcg	gcacgatcat	tatttttggc	480
gatgtcttgc	ccagcccgtg	gaaaatccgt	atttgcgtt			519

<210> 4651

<211> 789

<212> DNA

<213> Enterobacter cloacae

<400> 4651

caggtcacog	tcaccaatga	taacggcaag	ctggacattc	gtctgaccgg	cccgtggcgc	60
gaggtgatca	tgtgggaagt	gccgcttctg	gccgtgatca	gcgagctggc	ccaccgctat	120
cgctcccttg	aaaccggtgt	gacgcaggcg	gtcgccgctc	tggagaataa	actcgttgag	180
ttttccagac	tgaccgaagg	gctggatatg	tcccgtttcc	gtctgatgga	ctttggcacg	240
cgcgcgcgct	tttctcgcca	ggttcaggaa	gccattgtca	gacgtctgca	acaggagccg	300
tggttcgttg	gcaccagtaa	ctacgatctg	gcacgtcgcc	ttgatttaac	gccgatgggc	360
accaggcgcg	atgaatgggt	ccaggcgcac	cagcagatta	gccctgacct	tgccaacagc	420
cagcgcgcgc	ccctcgccgc	gtggctagag	gaataccggg	atcggctggg	tattgccctt	480
accgactgca	ttaccatgga	cgcattcctg	cgcgactttg	gccctgagtt	tgccgaacgc	540
taccaggggt	tacgccatga	ttccggggac	ccggttgaat	ggggtgagaa	agccatcgcc	600
cattacgaaa	agctgggtat	cgacccaatg	agtaagggtg	tggctcttct	cgataacctt	660
gatctgtcaa	aagccgtcga	cctttatcgc	cattttctcat	cgcgggtgaa	cctgagtttc	720
gggattggta	cgcgggttaac	ctgtgatata	cctcagggtg	aaccgctgaa	catcgtcata	780
aaactgggtg						789

<210> 4652

<211> 522

<212> DNA

<213> Enterobacter cloacae

<220>

<221> unsure

<222> (104)

<400> 4652

acttctgacc	agacagttac	caccacagaaa	cagcagattg	aagaagctgg	ctatcagggtt	60
tctaagtgtt	tcaccgatga	agctgtatct	ggtggcatta	aggntacaga	gcgtaaagggt	120
ttcagtgacc	tgctgaacta	tgcccgtaga	ggtgacacgc	tggttgttat	cgggatagac	180
agattaggcc	gtaataccat	cgacgtatta	tcacgggttg	agactttaca	ggctaaagggt	240
gtgaagggtta	tcagtctccg	tgaagggttc	gacctgtcta	caccagtttg	taaggctatg	300
ctcactatga	tggctggatt	agccagtctt	gaaaaagact	tgatagcaga	gcgcagaaca	360
gcagggatta	aacgtgctca	gtctgaaggg	gttcaactgtg	gcagaccgat	taaagcaact	420
actgaacagg	ttcagggaact	gattgcacaa	ggttattttcc	ctgctcagggt	acaggaagag	480
ttaggaatca	gtaaggcgac	tttctatcgt	ctgaataagtt	aa		522

<210> 4653

<211> 651

<212> DNA

<213> Enterobacter cloacae

<400> 4653

tgcatgaatc	ttatcagtat	ttccgccttt	caggacaatt	acatctgggt	tttagtcgac	60
gacgatcgca	gatgcacat	tgttgatcca	ggcgaatccg	caccgatect	gcacgcgata	120
aaagaaaacg	gctggcagcc	tgaagcgatc	ctacttacc	atcaccatca	cgatcatgtc	180
ggcgggtgttc	ccgatctcct	tgcgcgctat	cctcatcttc	ccgtctacgg	accggcagag	240
acacaggata	agggtagcgac	gcaagttgtc	gaagaaggcg	aaagtatcct	catcctcggg	300
tgggagtttt	ccgtattttg	tacgccaggt	cacacttccg	gtcatctctg	tttgtacagc	360
aaaccttata	tgtttttgtg	cgacacgctg	ttttctggcg	gctgtggaag	gctgtttgaa	420
ggcacgccag	aacagatgta	tcaatcttta	caaaaaatta	atgcgcttcc	agccgacacc	480
gtaatttgtt	gcgcacatga	gtatacatta	gggaatatga	agtttgctgc	aagcgtgctg	540
cctgaggatc	gggcgattca	ggattattac	ctgaaagtga	aggagttacg	tgcaaaaaac	600
ctaaaaaac	tgcccgtaat	gtcttacta	caacgtgcc	ggtcacatta	g	651

<210> 4654

<211> 420

<212> DNA

<213> Enterobacter cloacae

<400> 4654

gattcatgca	ttacctotta	tagegtggcg	ggtgttttga	tgaaaccggc	aaggatacct	60
cagactgtcg	caccaccgga	acgttgggca	gagttgccct	ggggtgaata	ttatcgcgag	120
gccttagaac	ttcagcttaa	accctggctc	gcgaaaatga	atggttttca	cctgcttaag	180
attggcaatc	tgagcgcaga	aatcaatacc	gaaagctgcg	ctatctcgca	tcagggttagc	240
gtatcgctta	atggctcccc	gggttcagggtg	aaagcggatc	cgatgcattt	gccgtttgcg	300
gaaaaatcca	ttgatgcctg	tctgctcgcc	catacgtgc	cctgggtgcag	cgatccccat	360
cgtctgctgc	gggaagccga	ccgccctttg	attgtagttg	tcgaccagcc	ggtagattgg	420

<210> 4655

<211> 849

<212> DNA

<213> Enterobacter cloacae

<400> 4655

tcacaggctt	ttgtacgaaa	ttatggotat	gagcttgca	atcgggtaat	ctgcgcgctt	60
cgcgagcg	tggtggagaa	aagcatgaac	gacgaaatga	aaaacaaaag	cggcaaggtc	120
aaagtgatgt	atgtccgcag	tgatgatgac	tctgataaac	gcacccaaaa	tccgcgtacc	180
ggaaaagggt	gcgggcgtcc	ggcgtcttct	cgtgcagacg	gtggccgtcg	ccccgccggc	240
gatgacagaa	ataaccgcgg	cgatgacgcg	aaacgtgatg	accgtaagcg	tgacgatcgc	300
aaacgcgatg	attttgtccg	cgacgggtgga	tcgccatggc	gtaccgtttc	tcgcgcgccc	360
ggtgaagaga	cgaccgaaaa	agccgatcac	ggcggtatca	gcggaaaaag	ctttatcgat	420
ccggaagtgc	tgcgtcgta	gcgtgcggaa	gagaccgctg	tctacggtga	gaacgcctgt	480
caggccctgt	tccagagccg	cccgagtggt	atcggtcgtg	catggtttat	ccagagcgtg	540
accccgcgct	ttaaagaagc	gctgcgctgg	atggcggcga	accgcaaagc	ctaccacgtg	600
gttgacgatg	cagagctgac	aaaagcgtcc	ggtacagaac	accacggcgg	cgtctgcttc	660
ctgatcaaaa	aacgtaacgg	cactaccgtg	cagcagtggg	ttagccaggc	ggatgccgat	720
gactgcgtac	tggcgtgga	agatgtgggt	aaccgcata	acctgggcgc	tatgatgcgt	780
agctgcgcgc	actttggcgt	gaaaggcgtt	ctgttgccag	atgcgcgct	gctggaatcc	840
ggtgcggcg						849

<210> 4656

<211> 429

<212> DNA

<213> Enterobacter cloacae

<400> 4656

atgaaaaactt	ttacagctaa	accagaaaacc	gtacagcgcg	actgggtatgt	tggtgacgcg	60
accggtaaaaa	ctctgggccc	tctggctact	gaactggctc	gtcgcctgcg	cggtaaagcat	120
aaagcggaat	acaactccga	cgttgatacc	ggtgattaca	tcacgtttct	gaacgctgac	180
aaagttgctg	ttaccggcaa	caagcgtact	gacaaaatgt	actaccacca	caccggccac	240

atcgggtggtg	tcaaagaagc	gacctttgaa	gaaatgattg	cccgccgtcc	tgagcgtgtg	300
attgaaatcg	cgggttaaagg	catgctgcca	aaaggcccgc	tggtgcgtgc	tatgttccgt	360
aaactgaaag	tttacgcagg	caacgagcac	aaccacgcgg	cacagcaacc	gcaagttctt	420
gacatctaa						429

<210> 4657

<211> 396

<212> DNA

<213> Enterobacter cloacae

<400> 4657

gcaatggctg	aaaatcaata	ctacggcact	ggtcgcccga	aaagttccgc	agctcgcgtt	60
ttcatcaaac	cgggcagtg	taaaatcgta	atcaaccagc	gttctctgga	acagtacttc	120
ggtcgcgaaa	ctgcccgc	ggtagttcgc	cagccgctgg	aactggttga	tatggtagaa	180
aaactggatc	tgtacatcac	cgttaaagg	gggtgtatct	ccggtcaggc	aggtgcgac	240
cgtcacggta	tcacccgcgc	tctgatggag	tacgacgaat	ccctgcgttc	tgaactgcgt	300
aaagctggct	tcgttactcg	tgaacgcgc	cagggtgaac	gtaagaaagt	gggtctgcgt	360
aaagcacgtc	gtcgtccaca	gttctccaaa	cgttaa			396

<210> 4658

<211> 609

<212> DNA

<213> Enterobacter cloacae

<400> 4658

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gttatcgccg	tccatcagag	tattgggtgc	ggtatcgccg	tggccatccc	gctgaccgca	120
gcgggtcagg	tgttgaccat	tattgtccgt	actattaccg	tggccttcca	gcacgcggcg	180
gataaggcgg	ccgaaaacgg	caacctcaac	gcgctctcct	ggatccacgt	ttcttccctg	240
ttcttgcaag	cgatgcgtat	cgcgatccct	gcagttatcg	tggcgatttc	tgtcgggtacc	300
agcgaaagttc	agggcatgct	gaatgcgac	cctgaagtgg	tcaccagcgg	tctgaatatc	360
gccgggggta	tgatcgtgg	ggtcgggtat	gcgatgggtc	tcaacatgat	gcgcgcgggc	420
tacctgatgc	cattcttcta	cctcggtctc	gttaccgctg	cgttcaccaa	cttcaacctg	480
gttgcgctgg	gtgtgattgg	tgcgggtgat	gcgattcttt	atatccagct	cagcccga	540
tacaaccgtg	tcgcgggtgc	ccctgcgcag	gctgctggta	acaacgatct	cgataacgaa	600
ctggactaa						609

<210> 4659

<211> 474

<212> DNA

<213> Enterobacter cloacae

<400> 4659

caggtgagcg	aaatggttga	tatgacaaaa	actaccactg	agaaaaaact	cactccgggt	60
gatattcgtg	gcgtgttcat	cogttctaac	ctgtttcagg	gttcatggaa	cttcgaacgt	120
atgcaggcgc	tcggtctctg	cttctccatg	gtgcgggcca	tcaaacgcct	gtatccggaa	180
aacaacgaag	cacgccgtca	ggcaattaag	cgtcattctg	aattcttcaa	cacccatcct	240
tatgttgccg	cgcgggttct	gggcgtgacg	ctggcgatgg	aagagcatcg	tgcgaacggg	300
gctgaaatcg	acgatgggtc	catcaacgg	atcaaagttg	gtctgatggg	gccgctggca	360
ggcgtgggcg	acccgatttt	ctggggtacc	gtgcgtccgg	tctttgcggc	gctgggccc	420
gggatcgcca	tgagcggcag	cctgctcgg	cctctgtgtg	tcttcatcct	gtaa	474

<210> 4660

<211> 414

<212> DNA

<213> Enterobacter cloacae

<400> 4660

agcgtagggc	tgcgggtcag	ctcgggctgt	atgcggatga	acgcgcggga	tatcaaagcg	60
ttgtttgagc	aagtgcgcgt	cggcacgcgg	gtgcagatta	tcaatgagcc	ggtgaagttc	120
tccgtcgagc	cggacggcaa	acgttatatc	gaagtgcaca	ggcgcgtggc	gcaggcagag	180

ggcgaaaacc	cacagacggt	gccgttcacg	cactcggcgg	cgtttaccgc	ttttgcagcg	240
gagtcaggta	gcgataaaac	gcttatcgat	aaagccctgg	cgcgagagc	cgggatcccg	300
gttgcggttt	caacaggcaa	tgggtcgtca	gccagcaatt	ctgtcctgtc	ggttcagaat	360
agtctgtgtc	cagcggcggt	ggcggaagac	gagggagaga	aagcgcttca	gtag	414

<210> 4661

<211> 648

<212> DNA

<213> Enterobacter cloacae

<400> 4661

cttctcgtct	tgactgctat	cgggtacact	ccactgtgtt	atttcatcaa	tactgaagga	60
ttatcctgca	tgtaccaaga	tcttattcgt	aacgaactga	acgaagcggc	ggaaacgctg	120
gcgaactttc	tgaaagatga	tgccaataat	cacgctattc	agcgcgcggc	ggtcctgctt	180
gccgacagct	tcaaagccgg	cggtaaagtg	ctctcctgcg	gtaacggcgg	ttcccactgt	240
gacgccatgc	acttcgcoga	ggagctgacc	ggacgctatc	gcgaaaaccg	tccgggctac	300
ccggcgattg	cgatttcoga	cgtgagccac	atctcctgtg	taggcaacga	ctttgggttac	360
gaccacatct	tttcccgcga	cgttgaagcc	gtaggcctgt	aaggcgatgt	gcttctcggg	420
atctccacgt	ccggtaactc	cgctaactgt	atcaaagcga	tcgccgccgc	gcgtgagaag	480
ggcatgaaag	tgatcacccct	gaccgggaaa	gatggcggta	agatggacgg	tacagcggac	540
attgaaatcc	gcgttcacaa	cttcgggttat	gccgatcgcg	ttcaggaaat	tcacatcaaa	600
gtgatccaca	tcctgatcca	attgatcgaa	aaagagatgg	ttaagtaa		648

<210> 4662

<211> 870

<212> DNA

<213> Enterobacter cloacae

<400> 4662

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ggcacgacct	ggatcgccat	ttttttgcaa	caggggcggg	ttgcagcgcc	ggtctccatt	120
ttctggcgct	tcgcggtggc	cagcgccacg	atgatgatcg	tcctggtcgc	ccttcgccgt	180
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gtgattttct	cgatggccgt	gctgtataac	gccatcaaca	gctttatctt	cttcggccag	360
cgtccaccgc	cacgcttctg	gacggcgcca	gcgctggggc	ttatcgggat	cattaccctg	420
ttctggaacg	atctgctcgc	cagcggtctg	agcgcgctcg	tgcttacggg	catcgggctt	480
tccgccctcg	gcacatacgg	cttctcgtcg	gggaatatga	tcagcatgcg	tcacagcga	540
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ggacttatcg	ccctcttcag	aggcgataac	tttatgccgg	aatggacggg	gagctatatg	660
ggggcgatgc	tctatcttgc	gctgtttggc	tcgggtgattg	ccttcggcgc	ctactttacg	720
ctggtaggcc	gcattgggtc	cggtaaagcc	gcctacagca	ccctgctgtt	ccccgctggt	780
ggcgtgtcgc	atttcaacgg	tggtacaagg	ttaccttttg	gcctcctcac	cggattttcc	840
ggctgttttt	tgataatttg	ggggcatttt				870

<210> 4663

<211> 270

<212> DNA

<213> Enterobacter cloacae

<400> 4663

aagaaaaata	caatgtttcca	gcaagaagtt	accattaccg	ctccgaacgg	tctgcacacc	60
cgccctgctg	ctcagttttgt	taaagaagcg	aaaggcttca	cttctgaaat	cactgtgact	120
tccaacggca	aaagcgctag	cgcaaaaagc	ctgttcaagc	tgcaaaactct	gggcctgact	180
cagggataccg	ttgttaccat	ctccgctgaa	gggtgaagacg	agcagaaagc	agttgagcat	240
ctggttaagc	tgatggctga	actcgagtaa				270

<210> 4664

<211> 845

<212> DNA

<213> Enterobacter cloacae

<400> 4664
 ggtagggtta tgatttcagg catttttagca tccccgggta tcgctttcgg caaagcattg 60
 ctgctgaaaag aagacgaaat cgtcattgac cggaaaaaaa tttctgccga caagggtgat 120
 caggaagttg aacgttttct gagcggctgt gccaaaggcat ctgcgcaact ggaagcgatt 180
 aaaactaaag ctggcgaaac tttcggtgaa gaaaaagaag ccattcttca agggcacatt 240
 atgctgctcg aacatgagga gctggagcag gaaatcatag ccctgattaa agataaaggc 300
 atgacggccg acgcggctgc gcatgaagtt atcgaagggtc aggcattctgc cctggaagag 360
 ctggacgatg aatacctgaa agagcgtgcg gctgacgtac gtgacatcgg taagcgctcg 420
 ctgcgcaaca tcctgggtct ggccatcacc gatctgagcg cgattcagga cgaagtgatc 480
 ctggttgccg ctgacctgac cccgtctgaa accgcacagc tgaacctgaa caagggtgctg 540
 ggtttcatta ctgatgcagg tggacgtact tcccacacct ctatcatggc gcgttctctg 600
 gagctgccag ccattgtggg ttacggtagc gtgacgtctc aggttaaaaa caaccactat 660
 ctgattctgg atgccgtaaa aaatgtggtt tacgtcaacc ccactaacga tgtgatcgac 720
 cactgcgccc ccgttcagga gcagggttgg accgaaaaaa acgaactcgc taaaactgaa 780
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 tacgg 845

<210> 4665
 <211> 357
 <212> DNA
 <213> Enterobacter cloacae

<400> 4665
 aatcataacc ctaccttact tgtgactgat attgaaaaga acccggtaaa cttactcgag 60
 ttcagccatc agcttaacca gatgctcaac tgcctttctgc tcgtcttcac cttcagcgga 120
 gatggtaaca acggtaccct gagtcaggcc cagagtttgc agcttgaaca ggctttttgc 180
 gctagcgctt ttgccgttgg aagtcacagt gatttcagaa gtgaagcctt tcgcttcttt 240
 aacaaactga gcagcagggc ggggtgtgcag accgttcgga gcggtaatgg taacttcttg 300
 ctggaacatt gtatttttct totaccagcc ggccctggagg atctatgctc tcgagac 357

<210> 4666
 <211> 192
 <212> DNA
 <213> Enterobacter cloacae

<400> 4666
 cttagcgcg atgccgccag ccccggtgtg aagattccag agattaacca aatcactatt 60
 gctaaattct tcagcgggtc aggggttatca ctgatgggtg ctgcactgat ttatgaaatg 120
 gtactgaaag cacacgatgc aatgacagat ttaatctgga atgaatacga ggtgaaaact 180
 atgaatggct aa 192

<210> 4667
 <211> 231
 <212> DNA
 <213> Enterobacter cloacae

<400> 4667
 gatgaacata tgcgcgcacc tgcaactcgt agtgaagacc tgggacaccc cgagaacaaa 60
 agtgaattag cgtggaatga aaacaaaaaa tggagaaaa atcaagaatc tcttttatta 120
 aatgggtgtg aaatacctat tgtcagctta gattatgaaa ttgaaataaa ccaagaaatt 180
 ggcaattata atgcatttaa agatacttgc tatctggaaa attatagata g 231

<210> 4668
 <211> 426
 <212> DNA
 <213> Enterobacter cloacae

<400> 4668
 gggggaaccc taacggggct tctctttgaa caaatcgagg agcggaaaat gtcatatctt 60
 gaatatatca atgaagtaaa agtgtccggg atagttatca gtgctgtgga gaaaaaaatg 120

actgaccaga	gtataggttt	gttaataaag	ctcaaaaaata	ggatgaagac	agaagttgat	180
ggtgaaatca	ctgagagaga	attttcagtt	caaatacaagg	tgctgcctga	aatgtattca	240
acctgtttca	ctgggtataaa	tcaggggtgat	gagttgatgg	tctccggtta	tattgtttgtc	300
gatactatta	tgattgaagg	gagagaacat	cctcttgact	acatgagagt	ggtagcaaca	360
agtaagttgg	ctcacatacc	taaacctcta	aaaggttttg	gacaaagtag	ctttaatcag	420
atctga						426

<210> 4669

<211> 198

<212> DNA

<213> Enterobacter cloacae

<400> 4669

atcaactatt	tgcgttatatt	catcttcato	tatatcgaat	atagaaaaaa	aactaagttg	60
attactactt	attgcagtag	ccctaaattt	ttgtttcatg	gggactccaa	aaggagaaat	120
cccatgaagg	gattttctccc	ctttaggggtg	ggtttaatgt	cagatctgat	taaagctact	180
ttgtccaaaa	ccttttag					198

<210> 4670

<211> 369

<212> DNA

<213> Enterobacter cloacae

<400> 4670

tcctctgcgg	cgcttgaaga	acaaatcatg	ttggacgatt	gcaatgacga	tatgggctgg	60
gacatcttct	ttgatcagga	ttatttaaatg	tcagaaaaaa	aactggctgt	taaatggact	120
gacagggaaa	ttatggatgt	ttacataaaa	gctttttaa	ccacattaga	gttgtttgac	180
gagcttggtt	catgtgatct	gttaactaaa	cgaaacgctt	ttggcaagtt	agaaataaat	240
ccaatatctg	aaaatcatct	tgaatggatc	atgtctgaag	cttttgaaat	agtgggaaat	300
catcttggtt	ataatgtgcc	tcaaactcagg	aaactgatgg	caactatttg	ccaaatgaat	360
ctcaaataa						369

<210> 4671

<211> 258

<212> DNA

<213> Enterobacter cloacae

<400> 4671

cgcttcttat	caatgggtggc	agaaaacgggc	tggtataaacg	ccgcgcgctg	tttaacctgg	60
cgaaatcagt	tctgggtgtga	ggtgaatgtg	ggtatcgaaa	cgataatcgg	gctggccgca	120
ctggtcatctt	ccgccattgc	aggcgctttt	ggcctggggc	atatccgcgg	caccagcaaa	180
gcacaggcta	aagccgacca	acagcgcact	gaagataacg	cagctgcaac	ggtcgcagca	240
gcggaacgcc	gggtatag					258

<210> 4672

<211> 411

<212> DNA

<213> Enterobacter cloacae

<400> 4672

gttaattcaa	aagggaaagc	ttttgacgta	aaactggaag	catatgcttt	aagtgaaaat	60
gacggaaaaa	atgggatccg	aggcacgctt	atcagccgaa	atggtcacgc	aattgcagga	120
gctgcatttg	ccgggtggact	ttcttcactt	gccggtagct	taagtcccag	taaggtatct	180
tcattttaca	tcgaccttta	ttcacaggct	cagtatcagt	cccctaattt	tggtgcactt	240
ggggcattag	ccgggggttg	tcgagctcaa	ggtggtctta	atcgactcgt	cgattactac	300
accgcaattg	cagaacaaca	gtggccaatc	gtagaaatta	gccctggccg	agctattaca	360
tttgtcgttc	agaccggaac	tacaattcca	acgaatctga	ccagtcgctg	a	411

<210> 4673

<211> 483

<212> DNA

<213> Enterobacter cloacae

<400> 4673

atggatagtt	tagaaaaaaa	agaatcgctt	gaatcagctg	gacctgaaat	cactaaaaaa	60
atggtgcgag	aaaggacaac	aaaaaaaatt	accttcgaaa	ttgatattga	aaaaatattg	120
aagtatttat	ttttcttcgc	ctttgccgta	ttggtcatta	tttatgggta	taaaggcttt	180
atgaatgttt	acgattactt	caataaacia	tcccagcctt	cgtacaagat	tgacgtgctt	240
gacatgcctg	aattacgtaa	ggaatttttc	aagcatcacg	gaggccgtac	tgctgacaat	300
gatagatctc	aattcgaaga	atatttcaga	acattaatga	agatctaccg	tgaccgtggc	360
tatttaatta	ttgatgcaac	gcttgccggt	actgtaccgg	atagtgttga	aatcgtcact	420
tatatggaac	ttgaagatag	ctctgaagcg	gtacaatcaa	gttcttataa	tgcaaagaag	480
tag						483

<210> 4674

<211> 924

<212> DNA

<213> Enterobacter cloacae

<400> 4674

acctttacaa	actttttcgc	gaaggatttt	cttttctggc	agatccttca	tgacattac	60
tctgcgctgt	gcaacttgat	ccaatcagtt	acaaagccag	aagaagagat	agtaattttc	120
tctactggaa	atttggttga	ctatgggccc	gaaccatag	aattgatgaa	ggcgataaac	180
agtggctttt	tcgatggacg	ttttgtgagg	cattttctcag	ctgccggagc	cggagaagaa	240
atgttaaaaa	aattgttacc	attaaacaaa	gaccggagaa	cattttaccc	cagcacatac	300
ctcaatgaga	gatgggtgtg	aatgggcccga	aagtggcata	aagctgtgaa	tcgttactat	360
ttagaggaag	aggtaaaaaa	acttcttaat	accagccttg	gtacgatgat	gcagatttta	420
ctaaaaggcg	atataaaaaa	tgggggtttgc	cctttctgatt	acgcccctat	ccgcacatca	480
ttcaactgata	cttataatgc	gcttcaagca	ttcaactatg	ccaatgtgaa	tatttttcag	540
agccagtttc	tattcgggtat	ggaccatgcc	gtaataccaa	tgatgataaa	tgacgtcaac	600
cttatgggtcc	taggtaggaa	tctgttaaac	agcattcgaa	aagcccatgg	tcgtactcaa	660
aacaatcttc	cagtactgat	cggtaattgt	ttgcatataa	atactggatc	actctatatg	720
tcaaaaattag	aagaccaggt	aatagttgct	cgggtatatac	cgcaaactga	ctcaccagca	780
cttacattag	tagaaataat	catgaagaac	aatccagttt	tattgtgtca	tcagctaata	840
caaacaacia	acaagtttta	ttaacttaaa	acctatcctt	tagaactcga	ttcgattgaa	900
aacaacattg	aggtaacaag	atga				924

<210> 4675

<211> 348

<212> DNA

<213> Enterobacter cloacae

<400> 4675

acaagagtac	ggaaccact	catggatatt	cgtaagatta	aaaaactgat	cgagctgggt	60
gaagaatcag	gcattctcga	actggaaatt	tctgaaggcg	aagagtctgt	acgcattcagc	120
cgtgcagccc	cagccgctag	cttcccggta	atgcagcaag	cttatgctgc	gccagtgacg	180
cagcctgcgc	tctccgcagc	cgttgcccca	gcccagcag	aagccgcacc	tgccgctgca	240
acagaaaatc	atggtcacat	cgtaagttcc	ccatgggttg	tactttctac	cgcaccccga	300
agccggacgc	gaaaggcttc	aactaaatgt	gtcaaaaagt	caacgtaa		348

<210> 4676

<211> 183

<212> DNA

<213> Enterobacter cloacae

<220>

<221>unsure

<222>(128)

<220>

<221>unsure

<222>(155)

<220>
 <221>unsure
 <222>(171)

<220>
 <221>unsure
 <222>(174)

<220>
 <221>unsure
 <222>(176)

<400> 4676
 ggaggaggaa aggggggaggg agaggtaggg gggacgagag aagagaggag gaagagggga 60
 ttggggaagg gaagagcgat ggagggcggg gaggggggaa gagaaggga ggtggagggg 120
 ggggcggnag tggggggggg ggttgggggg ggggnggggtg gggggggggg nggngngagg 180
 tga 183

<210> 4677
 <211> 240
 <212> DNA
 <213> Enterobacter cloacae

<400> 4677
 aaaagaagga agcgaaaaaa gaaaaaggat ctccagcgga aaggccaggc ggaagcatca 60
 aagagaacag ctaaggcaac caccgaacccg ctccagaaag aaaacagcgg gaataaagaa 120
 accttcacca aagcgccgga acgcgaagag gccctggggc agaaaaccgt cgagatccag 180
 cttcagcagg gtctggaaga aaaggagaaa gccagcgcggt tctggccgac caaagaatag 240

<210> 4678
 <211> 189
 <212> DNA
 <213> Enterobacter cloacae

<400> 4678
 acggcacttg cgtcttcccc agatttacgt ataatgcgag ggcttgctgt aattgacggc 60
 gggttcaact tgaaccagag tagctcactt tgttactcaa caatgctccc aattggggag 120
 ctacgtaaga acggttacac tctcccatca atcgtaatgg gtttgaggag taatcatttt 180
 cgtttataa 189

<210> 4679
 <211> 213
 <212> DNA
 <213> Enterobacter cloacae

<400> 4679
 atacttaccg gggtcaccga atccgtcagg actggcagtg ggttagtctt gtctacgttg 60
 ataaaagcct tcttcattgc cctgtttccc ctgtgctctga aaaagttacc gaccggtccg 120
 gatggagggg tccgtcagaa aatcatgcct gtcccttatt catctttctca gcatgcttac 180
 gcaggctact tttcagggtc gcatgagcat tga 213

<210> 4680
 <211> 339
 <212> DNA
 <213> Enterobacter cloacae

<400> 4680
 ccgacccctc catccggagc ggtcggtaac tttttcagga caaggggaaa caggggcaatg 60
 aagaaggctt ttatcaacgt agacaagact aacccactgc cagtcttgac ggattcgggtg 120
 acccggttaa gtattcagtg caccggcaaaa gatgaaaacg gggcagggat cgaagtgaac 180

atcctcgacc	tgattcagga	tcattgatacg	gatgaagtga	aagtgcagtt	tgggagctcg	240
cctgttcagg	ctctggcgat	gctccgccgg	gttatgacag	cactggaaaa	gcaggcaaat	300
gcagaactgc	aacagaattc	ctgctcgct	atgcagtaa			339

<210> 4681

<211> 345

<212> DNA

<213> Enterobacter cloacae

<400> 4681

aatgggtgaaa	agccaaaacg	gagaacgctg	gtttacgcc	ccggtaacag	gaaccggttc	60
cggctccaaa	ggaacaggg	tcataaacag	aaccggcgag	gtaaagcacc	atccatgtcc	120
agcgtttctga	acaaaaagac	cgtgaccgtc	attgccgaca	ccgcgatccc	gatttttgaa	180
cgtattgctg	aagaagccaa	gcttaaagaa	ggtgaatctg	tcagcactga	tacttacacg	240
cttgttctga	ccaatgatga	aatgaacgat	atcatcaatg	ctcatgctga	cctgaaagag	300
tacctgcgta	agcatgctga	gaagatgaat	aagggacagg	catga		345

<210> 4682

<211> 339

<212> DNA

<213> Enterobacter cloacae

<400> 4682

acttacggag	aggatatgg	aattacttat	tcattatcgg	aaacgtttta	tatgttttta	60
cgcgagatta	ttgcatctgg	acttgcagtt	ttttgcgcag	ggtgcgtttt	gtgtcttttc	120
tctgatcagg	aacgaggtaa	agaggttcc	gtttctatga	aaaaaataac	ttcaaagtca	180
gctttctcct	actttatcag	ttctcaaat	gccgctttta	ttatctcctt	gttgggttca	240
atcttaagca	cgaaatggga	caacatcgtc	tggaatgatg	aaataagaca	gtcggacctg	300
catgtcttca	caacgaccag	ccagatccga	tctaacgcc			339

<210> 4683

<211> 192

<212> DNA

<213> Enterobacter cloacae

<400> 4683

tccccaaaacg	tatgtctttc	catccggctg	gtgaagtatg	gttcactcact	gattaaaatt	60
tgctccctca	ttgtgttttt	tgccgggtcg	ccccggcttt	ttttcgtttc	gtctcctgaa	120
agttcaaaat	atttcagcat	cttcttagaa	aatcgtgaac	aagatggcgt	tttattgttc	180
gaacaatcct	aa					192

<210> 4684

<211> 492

<212> DNA

<213> Enterobacter cloacae

<220>

<221> unsure

<222> (30)

<400> 4684

atgcactcat	taatgaccgt	ggcaattaan	atacagaatc	agcaaggatt	ttttgattta	60
tttaaatac	aggaacgtaa	aagtaaagaa	gtgatatcaa	ttctgtttga	gtatgttcgt	120
gagaattctg	tatgggtaga	acattacgaa	ttctcaaatca	gcataaccca	ggatgaccga	180
tatagtctgg	ttcaacttcaa	ccagtaccag	gaacctaaact	ggtcttttat	ttctaaagaa	240
aaacttgaag	agacatatcc	tgaatttgat	tttcatgttt	ccagaaagtc	tcttgaaaac	300
tgagtaaatg	ccgattatc	aactcagacg	attaaaaaat	tattaaaaga	aaaaaactgg	360
accatgaagg	aagttgctgc	tcgctggaac	cgttcggaat	catggatgag	taaagttgtt	420
aatgatgagg	aaagggaact	ctactgggaa	gacgctttta	aagggctccc	ttcaaaaata	480
cacgaaaaat	ga					492

<210> 4685

<211> 294

<212> DNA

<213> Enterobacter cloacae

<400> 4685

ggcagcataa	tgtctaaaga	acttgttcga	cctataatgg	aaaaacctga	acgggccaga	60
aaagaaagta	gcctgactaa	cattgctggc	aaaaagaaaa	atacgacagg	cgaaacacca	120
aaaactatac	gcatgacacc	tgcggaagaa	atgctggcgc	aggaactggg	tgagcagatc	180
caggcaactta	cgcacaagaa	cattacgggt	tccacattac	ttcgtgcagg	gctgtacctt	240
gctcagtcag	caggaccaga	aaaagttctg	aaggcgatta	aagagaacat	ttag	294

<210> 4686

<211> 291

<212> DNA

<213> Enterobacter cloacae

<400> 4686

aaaaaggata	aacagcttta	ccacattcgc	tggaagcttc	atcacactct	ggctgagcta	60
aattactcac	ttgaatgttt	tgcgcatlac	ctggccaaac	aaaacgatta	tccttacgat	120
attgacgggt	ttgaggcgat	ctatttatat	ttacaacgta	aatattcatg	gcctctggat	180
aatccagag	gaatgagcct	ttcagatata	agacttgctc	tttcagtaga	gatgaaaggt	240
tggaattgc	ctcgcgatgc	gatttttgaa	gaatttcctg	gtgtgtattg	a	291

<210> 4687

<211> 189

<212> DNA

<213> Enterobacter cloacae

<220>

<221> unsure

<222> (81)

<400> 4687

agcacaaaaca	actgggaaaa	agaatacctc	cccccccaca	agggactcga	atztatggaa	60
attccaaccg	accccttcca	ntgcgttctg	cttggctggg	gcggcggaat	taaggagggg	120
cctttccccc	gaggggaatc	cgcacaaaat	taccccgccc	aggggggggc	caccttcccc	180
tggtgtggt						189

<210> 4688

<211> 195

<212> DNA

<213> Enterobacter cloacae

<400> 4688

attcagaagg	ttacttttat	catgccatct	ttgttaggca	tatctaacaa	aaaaagcttg	60
cctaactctgt	tagacatata	taatctacat	ctcatcgaca	atcacatgca	cagtgtattac	120
tcagttagatg	taccgttcgg	cggcccgccc	ttaaagggaac	aaaaaaagcg	ccctatcgga	180
cgcttcgctc	tttaa					195

<210> 4689

<211> 213

<212> DNA

<213> Enterobacter cloacae

<400> 4689

aaatctggat	atccccctt	tccacaggca	ggagatgact	atatgcagga	taatgaattg	60
gccaaagtta	gagatttctg	gttaacagta	aaactcatgg	ctgagaatag	tttgaaagaa	120
atctcattac	tcaatacaca	ccaggaaatt	cttcaaaaat	cgcatacgca	ggcaatgtcc	180
aacctttcat	ctctactgaa	agagcaagtc	tga			213

<210> 4690

<211> 432

<212> DNA

<213> Enterobacter cloacae

<400> 4690

aagggggccg	gacccggtat	gagtcggata	atcgcgcgta	ctgggatgat	cagatccagc	60
tcaatattga	cgcaccgctt	tatcagggcg	gcgcggtctc	ggcgcgcgtc	cgtcaggccg	120
agggcgcaag	ggcaatggca	tcgtcgcagg	tcgatcaggc	ccgttttgat	gtcctgcaaa	180
aaatcctccg	tcgcacagge	cgaactggacc	ggggcgcggtg	gactaatgga	agccgggaaa	240
cgtcagctgg	aaaatgcggt	gcgcgcccgc	gatgtctaca	aaaatgaata	taccctgagc	300
aagcgcagca	ttaacgatct	gctcagcggtg	gagcaggatg	tctggctctgc	cacctccgcg	360
aaaataatgg	ctgaatacga	tggctggagt	gcggcgatta	attacgcctc	tgcggtggat	420
aatctcatgc	cg					432

<210> 4691

<211> 195

<212> DNA

<213> Enterobacter cloacae

<400> 4691

ctcaccgagg	ggtcgcgatc	gagagcgaaa	agaatacttt	ctttcatcgt	cattgccgca	60
acgggagata	tccccgcctg	gccgttattt	gcattagccg	cagtcaccac	caacgaaatt	120
aaggtcaggg	aggcagataa	tctgagtaac	ctgttattgc	atttcattctt	cataatatcc	180
cccgaactcca	ggtga					195

<210> 4692

<211> 297

<212> DNA

<213> Enterobacter cloacae

<400> 4692

atttcgttcg	ctgtcagaca	tctgaggaac	gatatagggt	tcacctgctc	tggcccagtt	60
ttcacgaaca	gatggatgat	tcatttcagc	tttatctatc	tggctcgctc	tagatatctc	120
atgtttgtaa	ttaggttcca	aaacgttact	tttgtgatag	tcaaaagcat	tctcctcatt	180
aatattgccc	tctcctacaa	atttatcaat	aagagttgga	tcgttcatta	ttactgtctg	240
aacgggaaaa	gcgttactgc	catcttcgat	actaatgggt	gcgtccggaa	cgattaa	297

<210> 4693

<211> 393

<212> DNA

<213> Enterobacter cloacae

<400> 4693

gcttttaata	acaggtcaga	atatatacca	aaaaggagtg	tattaatcgt	tccggacgca	60
cccattagta	tcgaagatgg	cagtaacgct	tttcccgttc	agacagtaat	aatgaacgat	120
ccaactctta	ttgataaatt	tgtaggagag	ggcaatatta	atgaggagaa	tgcttttgac	180
tatcacaata	gtaacgtttt	ggaacctaat	tacaaacatg	aaatatctag	aacgagccag	240
atagataaag	ctgaaatgaa	tcattccatct	gttcgtgaaa	actgggccag	agcaggtgaa	300
ccctatatcg	ttcctcagat	gtctgcacgc	gaacgaaatc	taaaaattaa	acgattccag	360
aaacctacaa	gtggagctaa	tcattggacat	ttaa			393

<210> 4694

<211> 696

<212> DNA

<213> Enterobacter cloacae

<400> 4694

aaattaaacg	attccagaaa	cctacaagtg	gagctaataca	tggacattaa	aaaggcctgg	60
gaaaataaga	ccgtcagact	ttctgttatt	ggcgctctgc	tggtagtgat	tgtttatatt	120
attagccagt	ctattttttc	cacaccagtt	aagaaagaaa	agaaaacaca	gaaaaaagac	180

atgcagacca	atgtgtgtt	agatgattcg	caaatgaaca	aattgagtaa	tgaagaaagc	240
cagaaagtat	ataaagaaat	ggttaagcaa	aaccgacttg	accaaaatgc	ggcgaaagag	300
gaccgcgaaa	aagcagaaaa	agcccaacag	gaaactaaag	cccaagttgc	aagtttaact	360
tctcaacttc	agcagctgtc	tcagcaaatt	aatgatatgc	agacaaatcg	aaacggcaat	420
cgtaacttgg	atgctggtag	ttcgcgtaaa	acgattaatg	agcaggcacc	ggcagctcct	480
tatcagctta	atgctaattg	gccgattaat	ggcgtaaacc	ctaattacgc	ttctatcaca	540
cctacgcgta	atagcccaat	gagaacaatc	acacaaagtt	ccattaagac	taatgggtacc	600
gatggtgtca	ttcaggttat	gcccgtgtct	gaaaacagaa	tcaaggaagg	cagagaggtc	660
attgcaggtc	ttcaccaagg	gccggaagat	acgcat			696

<210> 4695

<211> 225

<212> DNA

<213> Enterobacter cloacae

<400> 4695

tgcccgagg	cgttaaaagg	gatagagaat	cctttcagaa	gagcgtttga	gttgcagcgc	60
agatcctccc	tgaaatgccc	ctcggtccct	acaatctgtc	aacagaatgt	gaaaacgtca	120
atacaggtgg	cggggatttta	cgtggagtg	gagaaaccgc	aaacaaagat	taaaaaaacc	180
ctgaccgtga	gttttcagca	gagaaattta	tgctactcgc	catga		225

<210> 4696

<211> 255

<212> DNA

<213> Enterobacter cloacae

<400> 4696

cacttttttcg	cgagaaaactg	ggaaaagtgt	caacccaacc	taacggatcc	tgacgcctac	60
gaacggcagc	tacagcagaa	gggtaaagg	ctggcggttga	gatttggttga	gccttggtctg	120
ctagcttttg	ttaatcctga	tgcgaaagcag	ggcagggtgtc	agcctgttat	ggtttggttat	180
gccttactag	ggaaaaccag	ggggaagggtg	tccaccgcta	ccgcttcaga	aaacttcagg	240
tacacgaact	cgtga					255

<210> 4697

<211> 228

<212> DNA

<213> Enterobacter cloacae

<400> 4697

aggggagggtg	ttaagcacac	ccccttttgca	accatcctca	agcctctttc	agatcgatgt	60
tccagtttac	ccggaagctg	gcgttcagat	ttagttgtca	aaacttatca	cccaccggca	120
cagccagtgg	ggatttttgg	ctgtaaccgc	tttaagttac	agtttcttcc	ttctgtaatg	180
ggcatgataa	ggggccaaaa	tttagacaat	tattctaaca	atccatag		228

<210> 4698

<211> 270

<212> DNA

<213> Enterobacter cloacae

<220>

<221>unsure

<222>(149)

<220>

<221>unsure

<222>(198)

<220>

<221>unsure

<222>(215)

<220>
 <221>unsure
 <222>(217)

<220>
 <221>unsure
 <222>(264)

<220>
 <221>unsure
 <222>(267)

<400> 4698
 aggaatcaat tgcacgctac cgcaacgctg cctttttgct cctcaatccc aggggggggaa 60
 gtgctcttta gctcagctca ggggggggca ctacgcccgg cagtgaattc agcagatttt 120
 agcgagcaca gccgcgcacg ggatgtctnt ctctggacgg tgggaaggatc tgcggggacg 180
 attgataccg gggtcanaaa tgaatatgga acatncngga ttatcgccct cttctgggtc 240
 aggccaatat ttctgggcaa acancantaa 270

<210> 4699
 <211> 240
 <212> DNA
 <213> Enterobacter cloacae

<400> 4699
 ggcgccggag tataccacaa gctatggcaa aaaatgcagt gggtgttttt tatacttgctc 60
 gcgcgcgat tattggctga cgcggattat gaaggctact tgtccaatat gttagcggca 120
 attaaatgtt tatccccggt tcgtcattcg ttaattgttg ttacaaaaaa tcgcgcgctc 180
 tttttcggtt gggtaacaa ctgttttagt aactttttga atatcgatgc tagaaaatag 240

<210> 4700
 <211> 246
 <212> DNA
 <213> Enterobacter cloacae

<400> 4700
 gcgtcagcag cgacttcagg cagtttactt cctgtgccag ttcttggtta ttctcggcag 60
 tggcaaattc aggtgtgctc atttattttc ctcatataa aacagcgcac gagcgcgacg 120
 atgaaagtta agcgccgga gtataccaca agctatggca aaaaatgcag tgggtgtttt 180
 ttatacttgt cgcgcgcga ttattggctg acgcggatta tgaaggctact ctgtccaata 240
 tgtag 246

<210> 4701
 <211> 318
 <212> DNA
 <213> Enterobacter cloacae

<400> 4701
 cagagtgaga ttgaaggtat gcatagaact aaatttgaac gaottaagga tgaccttatac 60
 ggtgaggccg tattatccat actgaaagag aacggacctt ttacctttgt gtctcttgct 120
 aatcgctgc gggcgatggc taacgttgaa tcaaatgatg aacgtaaaaa tgcattgatt 180
 gccgtgaag atgaagtgcg ccagcgtgta accggcgtct cgcacgaccg gggaagagtg 240
 atgggcaatt atgacatggg tcgcatgcga tctctcttta ctcaacaacac gcttttgacc 300
 ccagacaaga aacactaa 318

<210> 4702
 <211> 183
 <212> DNA
 <213> Enterobacter cloacae

<400> 4702

cgcgacaagt	tttttaaatt	ttttctcgct	atcgacgcct	tccgcaacgc	attcccttcc	60
cgtcatgtcg	ctgtatatct	gtatcgcttt	aataatgcta	tagtcattgt	cgttagcaac	120
aaagtgtc	actatatcgc	ggtcaagctt	caatccatca	acattaatct	gtcggatggg	180
taa						183

<210> 4703

<211> 246

<212> DNA

<213> Enterobacter cloacae

<400> 4703

attactgggt	catccactta	caatgaaatg	aatctagcac	accttaagaa	acaaattcat	60
tacaatcgtg	taatgtacat	agctgtatta	catttacgtc	atcttcccca	cagggtgatt	120
atTTTTat	atgatcataa	ggatatcttt	tatgtacctc	agaaggtaat	tacacatgaa	180
tatattaatc	acgaccactg	cgtttacagc	tttattttgt	ggggcagctt	ttgctcagtc	240
cagtga						246

<210> 4704

<211> 555

<212> DNA

<213> Enterobacter cloacae

<400> 4704

acttctctct	tcatatttgt	aaggctctca	tttgattctt	gtcaaacatt	aatctggaag	60
actaaaaaat	catttctttt	aattcgtttt	acagaaatcc	tcctccgtta	tttcggatat	120
tatttgaata	attatcaaaa	acgggggtgca	gccatgcgta	agagttacac	atttgggtatt	180
ccatttggac	tccagagaga	atcaggactc	tttttagata	ttacagaggt	cagccgggggt	240
atcgactgta	actgcatctg	ccccgcttgc	aaaactgata	tgttagcaaa	gcaggggggag	300
gtcaagcttt	ggcatttctc	acacagtaact	gctgtagccg	gtgactgtga	tggtctgatg	360
gaagccatcc	ggggaaaaat	tattgaagtc	atcaacgagc	accaggttct	tggtttccca	420
aatcttctcg	ctggcgacga	tggtgggco	gtttcaactga	atgagggttag	tggaagcggc	480
agtatgttcg	gaggtacagc	tgatctgttc	gtaagcgta	agccactgcc	gcctgttgcg	540
attactaacg	attga					555

<210> 4705

<211> 183

<212> DNA

<213> Enterobacter cloacae

<400> 4705

tgtccaacac	atcagattgc	ggcaacgtac	gaaactgttc	cgcgacagat	tatggcacag	60
agccagatct	atcaatgctc	tgcgaaaatg	aaattgggct	actttccgag	attttccatc	120
tactggggga	ccagtcaaga	ctacgaatcc	tgctttactg	tatgcgtggg	tcgggtctctg	180
tag						183

<210> 4706

<211> 246

<212> DNA

<213> Enterobacter cloacae

<400> 4706

aattattttt	cagacttaag	ggggctttat	tatctccctt	ctgctaaggt	gagtcacaac	60
ttcacaattt	caacttatca	gaattttctg	ggattattat	tctgctatgt	gaaatgccat	120
atcctgaaga	acatggctta	catgctgata	cataatgcta	taaaagatgt	acttgccttc	180
tctctctctt	cgaacgagtc	ttgcaccccg	caacaacctc	agatgatgac	tgaccagaga	240
ttgtga						246

<210> 4707

<211> 309

<212> DNA

<213> Enterobacter cloacae

<400> 4707
 aaacagcttg cgccaggcaa tcgcgagcgc agaaaaggag agagagcagg agcagcgcca 60
 caaaaagaag accgacgcgc tcacggccgc ggggtgcaga aggggcaaaa acccgagag 120
 ggcaacaaca atcaacaaaa gcaggagatc cagaccgcgc aaaacgaacc ggacaaacag 180
 agcaaaacca gaaccgacgg gcgaggcaaa accgggcagc cgcagaaaga aggagaggaa 240
 aaaggaacgc aggaggagca ggcagaaagg acgcaatcca gccggataaa gatatttact 300
 tgcccataa 309

<210> 4708
 <211> 213
 <212> DNA
 <213> Enterobacter cloacae

<400> 4708
 ccggggaaag gatggttttg gttaggcaag aggaatccgc atggggcgaa ggggaattat 60
 gacatggttg aaacggtaaa ggggtggaaa ggaacgatgg ggaatatggg atatttaggg 120
 gatgggtttg cagcattac ccgcggtgat gcatactat ttttgggaaa gaacaaaacg 180
 ttggtgcgca tgatgcggaa aaggcgtagc taa 213

<210> 4709
 <211> 195
 <212> DNA
 <213> Enterobacter cloacae

<400> 4709
 atcttgagcagg tggagattca gtttcacaag ctgcttgatt ctttccctga ttttgatttt 60
 ttctcacata ctcttatggc acggtttccg tgcctttttt ttgcctcgct tacaagcgct 120
 tactcctctt ctacctatcc cactttacat caccacttaa aatctatctt tctaattcca 180
 ttatcctttt cgtag 195

<210> 4710
 <211> 312
 <212> DNA
 <213> Enterobacter cloacae

<400> 4710
 agagatttgc atactgttct caaccaagga gagctcatga atgaactaaa atccaaaaac 60
 gagaacagta ccaaaaagcaa ctttcccccgc gttgataatc agttttgctt ttaccatggt 120
 gatttcagca tagaacgact actttcaacg gccgaggatc tccagottga gtacatcttc 180
 cagaaacctg gaagtgaagt aagaaaggat ttggttgagc gattcgaacg tggagagcgc 240
 tttgttacag cttcacactg tgacaatttc tgtgaaatcc ttggttgatc aggccatcag 300
 gaaatgcat aa 312

<210> 4711
 <211> 255
 <212> DNA
 <213> Enterobacter cloacae

<400> 4711
 cgtcatattc ctgcgtgccg gtcgcccgc accagtgcac gggctttttt cggtcatac 60
 atttccgggc aggagatttt atcagggcgt ggtgtgactg agcagcaact ggggcactgt 120
 cagcagcttg cagatttaac acccttaatc gccaaaactg gattctgttc tgatgttgac 180
 cttccgttct gggcgggctt tggtttacta acacttactt ccataatac aaatgtgctt 240
 gatgatgcag attaa 255

<210> 4712
 <211> 183
 <212> DNA
 <213> Enterobacter cloacae

<400> 4712
 tacagattaa cgtcatattc ctatatgcc a gtctgccgac atcagtgctt gggctatattt 60
 cgggtcaaaac aagacctggc gagagattta atcaagcgtg gtgtgactga gcagcagctg 120
 ggggcactgt catccgcttg caaatttaac ccccttaatc gccaaacttg ggttcagtcc 180
 tga 183

<210> 4713
 <211> 234
 <212> DNA
 <213> Enterobacter cloacae

<400> 4713
 gtaatgccaa tgtttacccg tatccaaaaa gataatggat gggatcacct aaatgattta 60
 cgtgaaaaat ttaacggtaa ggtgtttaaa gttaacgaac agatcatctc acgctttcag 120
 attaaaaaca cacctgcgat tataactact gaccaagata aattccggat caccctgttt 180
 agcgaggcag aagtccgtgg tatcggagcc ccaaatcttt cagaggaaaa ataa 234

<210> 4714
 <211> 417
 <212> DNA
 <213> Enterobacter cloacae

<400> 4714
 tttctaaggg taaaaataat gaaacttaga aaaacgatag cttcaactat tattgcatca 60
 atgattgcc aatactatgag ttgggctttt tatactctctc tcataaatat ggtaatgact 120
 cctcgtattt atgcggcaga cgtatatattt gaccagctcg aaagtaactt taatcttgct 180
 aatcctaacg caaatcgcaa tgcgacaacc agtgctcagg acattgttga gaagtacaag 240
 aatgcggatt caggcgagaa tgtcagtggg aagatcaccc agaaatacgt gggtaaagcc 300
 gaatccgcta atcttaatct cggaaagtat ggggcaggga actcaaataa aagtgtcatg 360
 aaaaatgccg catccgatgg aaagtccatt ggtagcgcgc tacaactgcc gagtatg 417

<210> 4715
 <211> 198
 <212> DNA
 <213> Enterobacter cloacae

<220>
 <221>unsure
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<220>
 <221>unsure
 <222>(7)

<220>
 <221>unsure
 <222>(8)

<220>
 <221>unsure
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<220>
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<221>unsure
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<220>
 <221>unsure
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<220>
 <221>unsure
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<220>
 <221>unsure
 <222>(165)

<400> 4715
 gtccgnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 60
 nnntatccac cgggacaggc atcagcctct tacgcacctg agcctcatct cacagttttc 120
 atgactgact atttcattccc gattcgccct ggtccacacca tagtnagtat tgcgacacgc 180
 cgtgaagagt ccattggg 198

<210> 4716
 <211> 198
 <212> DNA
 <213> Enterobacter cloacae

<400> 4716
 agttatcatg tgacaatggt tttatctggt ttgcttaatc aaaaaatcaa ctgggtcaaca 60
 ggggtcaagag gtattttgag aaagcaatgt aaaagggact ctccggagtc cttttttatt 120
 tgtattgaaa aagggtcgat tatgaatgaa aacatattac aaggtaacag gaaaaacctg 180
 tcacactatc cagctga 198

<210> 4717
 <211> 183
 <212> DNA
 <213> Enterobacter cloacae

<400> 4717
 atgaaaacat attacaaggt aacaggaaaa acctgtcaca ctatccacgc tgaattacga 60
 aagattgggtg atttgattaa cccaatcccc aacaagaaat atcacatcaa aagaatgatg 120
 actaaagcca ctgccttatt actcatcaaa tcaatcagtg aaagaattaa aaataaccgt 180
 tga 183

<210> 4718
 <211> 921
 <212> DNA
 <213> Enterobacter cloacae

<220>
 <221>unsure
 <222>(180)

<400> 4718
 atgaatgcga tacaaaaagtt agttgaatct attcttgtta aaatggggtt tgttggcgct 60
 gtagtggaat atatatactt ggattcaaaa ccatttcggc atattcgatt tgtggctgat 120
 attccagtaa tatcttttct acctcatttg gtgaaatata ttaagggcgc agaccatctn 180
 tactgtggta acgatgattt gcacccctct ttcatttatt tttccgaagc ggctacatta 240
 aaagcaggcc ctgtaaatct cgcgaacttt cgttttgaag tttctatagc ttcaactcat 300
 ttacgactgg tctcagagca gcoctgattt cttatcaaag gatttaaccg ggataatcta 360
 gaatacgttt attaccgctc agatttggcc tctaaggatc ttatactagg ccttgttgaa 420
 cacggttctc ctttcataaa acatctacat ggacttatac aaaagcgaat tttaaacgag 480
 ttctctctga ttttttctgt tcttgaaaag attttagaaa gcgcgaagcc acaaattctt 540
 gcttgcttcc atagtgttga ttatgaaatg aacgtaaaaa taatagccga agctatacct 600
 gaaactgtat ctaatcagat agtcacatct gattatatag ttaattctat atcagatgcg 660
 gacaagttaa taaatcatgt tcgtcgctat ttagcaggca gggtaatgaa gaggcggata 720
 tacgctgaat tagatgtttg tgaagaaaca tcaaatatct cactagttaa cttaggatgc 780
 tttacgtctc ctctgctcgt tacggaatat caaatgttta agccacactc ttcagggtta 840
 tatcgaaaag ctataaaciaa ctcttataaa cagttcaaac cagaaatgca tgtaccttct 900
 gaagaactct tttataatta a 921

<210> 4719
 <211> 531
 <212> DNA
 <213> Enterobacter cloacae

<400> 4719
 atgtttaaag aatctgacca cgtggaattt gttagtgcct ttctttatca aaatttaggc 60
 cttaatgttc ccgctgaaga tataaccgtt caattatctg atacttcggt cgacaaagta 120
 acctttgatt acgatgtaga tatcgataat ttaaatttga tgttggatct ctacatatct 180
 gaactaataa agcacaaagc atcttattcc gattctatct ttttgaaaca aaaaataatt 240
 tattttcttg gagtatttta gaatttcgga ttttttaagt tcgatattcg cggatatagt 300
 aatactttta gccaggttaa agttattgat attgtttcaa tgattattaa tgactgtgaa 360
 gagttatcta aagctaattc ttctactgat gctataagaa atctttatct cgataaaatg 420
 aagggtgatg ggaaagtgtt agttgcgaaa tttgcactta aacagttttt tcatcccgac 480
 tttggtgact ttatctcatt tgcgaagaa aagaattaca gattgtctta a 531

<210> 4720
 <211> 669
 <212> DNA
 <213> Enterobacter cloacae

<400> 4720
 tctttcattg ttaaccattt gaggtttcct atagtttttaa gggaagggtg caaaatcgaa 60
 agaggagaag tctattcaat ttcgaaattgc acttataata aagaaagatt gcagtatctt 120
 ttttctcagg atattttacgg taagtgtgat aattccttag agaaagaatt aagctcgttt 180
 ttctcattta tcaatgttga ggtgcacgag ttgttaaaaag atgctgtatg ctttgcatta 240
 aaaatcctga ataagatatc tttggatata cctgaaagac ttattaaagc ttttaattat 300
 cgtgactggt attgtagtta cgaatgttgg ctttttagga aaggottacc tggatcatatt 360
 ctggaagagc tcattgctcc agatatctta ctttcagacc ttaacgggtt tagaaaaata 420
 cttagaaatg caaaacgatt tctaaatgga catacaaaaa ccaatttgtt ttatattaaa 480
 tatgaatggt ggttggggcc tgtggatacc tcacactcag ctaagttgat gtctgacaaa 540
 gaaattaata accgaagtga cttgaagaat ttttcaaagg tctttttcaa agagtgttta 600
 agttcttgta agtcggaata tgaaaacatc cttagtgaat aagaacatgc gcttcgctac 660
 aattattaa 669

<210> 4721
 <211> 498
 <212> DNA
 <213> Enterobacter cloacae

<400> 4721
 ttgcgaaatt tgcacttaaa cagttttttc attccgactt tggtgacttt atctcatttg 60
 tcgaagaaaa gaattacaga ttgtcttaat gaaactttaa ggattatcaa agctgttgaa 120
 catggctttg tacgtgttgg gcagcataag attaatcgcc gtattaatga tgacttaaaag 180
 ttatgcattg atttcaatac tgatgattat ccggcaaata tgccagatat atatattaag 240
 tttaacgata catttgatgg gaacggggcg ttatatgtg acaatgatgc cctcatatcc 300
 ctctataaccg atgttgcttc aattatcaat gtgccggtga tgatggaagt aagattgatc 360
 aataaaagag ggcgtgttgt ctgtgattct tcgcattcaa cttacgtatc tctcgaaagt 420
 aatgaccgat acagagtaac tgatcgaca ttactaataa ctgaagcttt tgacgatttt 480
 cgtaacgcgt ctcaatga 498

<210> 4722

<211> 270

<212> DNA

<213> Enterobacter cloacae

<220>

<221> unsure

<222> (70)

<400> 4722
 ccaaactttt atctaaccga ggggggaagt cgtttccctt ctggggcact tctctcaaaa 60
 tttgagggtan tgtatatgac acattcatct gatgataaaa actatgtccg agcagttctg 120
 agctatcttg gcatagattt tgatgaggcg gatatagtat taagtgtttg ccattgtcaa 180
 agtgacgagc tttcttttac ctgtaatatc aaagctattg aactcaagaa tgctgttgat 240
 ttatatgtcg atagtatctc tgaacaatga 270

<210> 4723

<211> 195

<212> DNA

<213> Enterobacter cloacae

<400> 4723
 ataagatatc tttggataga cctgaaagac ttattaaagc ttttaattat cgtgactggt 60
 attgtagtta cgatgttgag ctttttagga aaggcttaac tggatcatatt ctggaagagc 120
 tcattgctcc agatatctta ctttcagacc ttaacgggtg tagaaaaata cttagaaatg 180
 caaaacgatt tctaa 195

<210> 4724

<211> 234

<212> DNA

<213> Enterobacter cloacae

<400> 4724
 attcagcaaa ttgccgtaaa aaacagtaca gcaactgaatg acaaaaaaat tcccttcaat 60
 accactaaaa taacctcgc tatcatcatt aactttatctt attaccgtca ttcagttctg 120
 aatgtctggt tatccctaatt tgaaccggat gcttcgcatt cggttttttt ttacctttct 180
 ttacgtcaac ctacatttaa tgtgctaccg cttgggtaatg ataacgacta ttaa 234

<210> 4725

<211> 186

<212> DNA

<213> Enterobacter cloacae

<400> 4725
 gtttaatttg attactttca tttatgggat attaaaagct tgattctttt tactagccgc 60
 ctgattccca cgaaaatatt tcagatgatt ttacgggctc ttcaacatat aaacccaaat 120
 ttgaaggact gctctgaaga gccgccttc ctgcttctt attatttagc cattttcttt 180
 ttctga 186

<210> 4726
 <211> 231
 <212> DNA
 <213> Enterobacter cloacae

<400> 4726
 agacaaggat taactcaaag agaattatct gccatgttgg gtgtaactca gcagacttat 60
 gctcgcccttg aggcaaatcc ttcaaaagca agttttgagc gtctatacaa agtgttacat 120
 atttttagggg tggagatttc gctcagttct gcacctcttt caacttatac aaagcctacg 180
 aattttgtag aaaaggaggtt tgattcacccg gcaaggcgtg aggaatggtg a 231

<210> 4727
 <211> 507
 <212> DNA
 <213> Enterobacter cloacae

<220>
 <221> unsure
 <222> (7)

<400> 4727
 aaactancgt tttccgttct cattacagcc tgtggagata aggatggaca ggttaaaaaat 60
 cagtctgtca ggattgtaga tatacagcag gtaattatca actcaggctc gccgaacag 120
 gagcgtgaac acctgaaaag tgtcaggaag acgctggccg atggacttac gcttgctcag 180
 gctcagtatg aaaatttacc tgaagagaag aaaaatgagg cgaagcagaa cgataataag 240
 cttattgaat atcaatggca gaatgagaga ttcccttgcca gaaaggctgt aggccaaacc 300
 atccagaatg caatagataa gtggcggtatt aaaaacaata tctccatcat aattccacga 360
 caacaagctc tttctctgga tgaagggtcg gatattaccc cgctaatacg aaaagagctt 420
 aagggggcga aagttaaatt tggagaacta ccggtgatta gttttaaaca aaaagaaaac 480
 tctccatcag aaaaagaaaa tggctaa 507

<210> 4728
 <211> 204
 <212> DNA
 <213> Enterobacter cloacae

<400> 4728
 agcttcaaac ttattaataa gcgtcaggtt ttaatgctca gtaacataag gatggacagg 60
 ataaaaaatc agtctctcag gctagtagat atacagcagg taattataat ttcaggtttg 120
 gacagacagg aggctaatac cctgaaaaaa cttcaggggg aaagttcacc gatggacttg 180
 cgcttgctca ggcgctcagt atga 204

<210> 4729
 <211> 213
 <212> DNA
 <213> Enterobacter cloacae

<400> 4729
 tcacctgaaa aaacttcagg ggaaaagtcc atcgatggac ttgcgcttgc tcaggcgctc 60
 agtatgaaaa ttacatttaa gagaagacaa atgaggcaat acgacaataa gttttattgaa 120
 tacctggggc gcaggtcagg aaagtttaga ctgttgctca ccaaaggact actttcaaat 180
 aaaactaccg tctcagcatt cttaggcatc tga 213

<210> 4730
 <211> 717
 <212> DNA
 <213> Enterobacter cloacae

<400> 4730
 atcgcttggtg gtctaacttt caaaaactca tgtaaagggtg gtcagatggt aagcagtaaa 60
 aaaaggaagt cccctacaaa tatcaaagaa tcgctcaatg ataacgctga ccgtttttat 120

aagatgtttc	gcattcatac	cacggcaaaa	gttgctatgt	cgctaattgc	catgaccgct	180
gtagggtttt	ctttctacaa	tctttacgaa	caatggcagg	acgctgaagg	gaagaaagac	240
catatagctg	taatacggat	ttctggcgag	atgggtaccg	gctcggaac	ggcgatgga	300
acagtgatcg	caacagctct	tgccaaagct	tacaataatc	cccatgccaa	agcagttatt	360
atcgaggcag	agtcagggtg	tggtggtccc	tctgacgcc	tcattattta	ccgccagata	420
aacgcgctta	aaaaccacca	gccacagatt	gaacgcgtat	cagatgccgg	tggctctctt	480
tcctctgtag	ccgtcgacaa	gagtaacaaa	accgggagca	cagaacgtgg	cgatgaagca	540
cggtcgaagc	aaaactccct	cgaagtactc	tccagcggt	ccggtcggtt	tttctctgat	600
atcgcagact	catataaacc	aatcatcggt	agtgtgaaag	gcataatgcg	atccgcgatg	660
tattacgcgg	tatcgcccg	tgatgcaatt	tatgccgaca	gtaatgcctt	gatcggt	717

<210> 4731

<211> 585

<212> DNA

<213> Enterobacter cloacae

<400> 4731

acaagttaca	ggcggggcat	caaaccccag	attcatccag	aaacaacaca	tagtcatata	60
gttactattg	aggactctcc	ctttctttct	cggttaaaat	ttaaaatcat	tactgccata	120
gatcagcttc	ctgacctaa	tgccctttat	acaaacacct	ttaacagcat	tattgaccgt	180
gcactgctga	ctcatctcaa	aaccgaacag	gaaaaaatag	atagtccaag	agtctgcaaa	240
aatgtgattt	cggtttttgc	cgactcaact	ctttctctgc	cggtgtttta	catcggccta	300
aacgagcagt	acagatactg	gacgcctgg	ggcatcaact	ttatagaatt	ttccggccag	360
gccgcaaaaag	caaggaccgc	tgtattttgt	cctgatgtgg	gacagatcga	gtggaaaagc	420
gcagagcata	aagaactggc	ggagttaagc	ctcatcgacc	aaatcatacc	taaacagtac	480
cactggctcc	tgggtatccc	gacgatgtgg	cgtaacaact	attgcaatca	cgatcagagg	540
ctagctcttt	ttcgtgaatg	gagggaaaagc	aatggctgog	gataa		585

<210> 4732

<211> 690

<212> DNA

<213> Enterobacter cloacae

<400> 4732

ctcttttttcg	tgaatggagg	gaaagcaatg	gctgcggata	atacaagcag	ggcagcagtg	60
ctcagaacaa	tgcttttttt	tggtatgggc	atltattttg	gttacagott	ggctttccag	120
aatactgagg	agctcaaata	tcagattact	caggagggtta	atgcaagccg	gtccatcata	180
tcaaatgacc	gttgggaagtc	tgctattgca	aatagtgaag	cgacttttaa	ttggttggtta	240
catgactata	agtttaattga	ctatctgaat	actattctga	tcctgacac	caaaaaacca	300
gccagaggta	ttaacattgt	tgctgaaaaa	tttacctcta	ttaattacac	tatggccaaa	360
aacatacccc	tcttacttta	tcagtcatt	ttccgggtgga	acttaatcct	ggggtggcta	420
atcgttttttc	tgccctatct	atltgccatg	ctagcagatg	gaatgtacca	gtggaaattg	480
aagaggtacg	tatttggtta	ggttacagtt	cagttttatc	gtatttggtt	tcgagcattt	540
tgggtgatca	gtgctttaac	gatggtctac	ctggctcatg	caaatatgtc	actattttaac	600
aatatcgctc	aacttttccc	accagtcgct	ttattgatac	tgggaattgc	attgaatcgc	660
ttgtggtcta	actttcaaaa	actcatgtaa				690

<210> 4733

<211> 510

<212> DNA

<213> Enterobacter cloacae

<400> 4733

ggatcgatga	acaacatatt	cttacagttt	cacatttatg	ggcttgatgc	aagcaaggat	60
tatagtttaa	gtataataac	aaggaatggg	agccaaccag	caacagttat	caatattgat	120
gacctaaga	accgggacct	cgctctttta	aaagttagaa	aaaatactat	tgtcaaagcc	180
ccacctaat	ggaagcttcc	agtatgtgat	aatgttctag	ctccagggtga	gtctgtttgg	240
gttctatcgg	gaatgtataa	tacgctttca	aatacgtatg	cttcccccca	ctcaacctac	300
tattataaag	gaatagttgg	ttctgatggg	ttgactgctt	tttatcaaaa	tggagttagt	360
ggaagcgctg	tgttaaacca	atctaagagt	tgcttatatg	gtgttggtgag	tcaacaagac	420
attaaaaaga	tcaatgtcta	tcagatatat	attacgaaga	ttactacaaa	tgaaattata	480

cgcggtattca taggttataa aaataattaa

510

<210> 4734

<211> 258

<212> DNA

<213> Enterobacter cloacae

<400> 4734

atgagcgtaa	tcttacaaca	ggcaattccg	acgttatctg	cgttggtcta	cctatctgaa	60
cctttaaaag	gaacgtctat	catgtataaa	cttttaccgg	caatactagt	ctttctttcg	120
gtgttccttg	gactaatcgc	tctactcagt	gctatcaaaa	atggttctga	tgaattggcg	180
gtattcctca	ttacactttc	ggcgtgggtc	gctgctttta	gtaagtttta	ttcacttaaa	240
ctgtataaaa	atagttag					258

<210> 4735

<211> 183

<212> DNA

<213> Enterobacter cloacae

<400> 4735

cggaaatcaa	cgactgcact	ttcttattat	atctacgggtg	caaaggaaga	cggtggcgaa	60
gtggttttaa	gaccatttat	tgtaaatcct	gatgaattaa	tgcttactcc	agcggatgtc	120
gttgaattta	attcgcaggt	tatcaacgtt	gatcggcagc	gtcatcctga	gtggttcctg	180
taa						183

<210> 4736

<211> 183

<212> DNA

<213> Enterobacter cloacae

<400> 4736

ccccccccc	cttttttggg	ggggcttggg	gcgtggggaa	tggtctacat	gactaagcag	60
gggctcgagg	gcagcacgca	gcaacttaag	gcaaaactggc	aggatttacc	cgacagcgta	120
cccgcagtga	aaggctacac	cggtcgggat	catatgcgct	gtgatatgga	tgccggggcga	180
taa						183

<210> 4737

<211> 711

<212> DNA

<213> Enterobacter cloacae

<400> 4737

ctgatgaaag	gattatgtac	cgttctcgca	gtacgtccg	ttgtgctggc	aaccgggtgc	60
caggcgaaag	agccaccgac	acagggttgt	taccggttcg	atgatcaccg	ttttctcgaa	120
ttgaaaggct	gggctcgca	aggtgaactc	tggtatacgg	atactcttcg	gggtattcat	180
accaggcccc	tcagtcaatt	ttatcggatt	ttcaccaaaa	aatttggtca	tccttctgaa	240
cgatatattg	ccatacccac	ctgggatgac	ccagggaaca	tgatttcaaa	agattatggg	300
aaaacatggg	ctccccagtt	tttttcggta	gggcctaattg	agcccgatgg	tactaaccac	360
ccatcctatg	aggatattat	ttctttcacc	gtcgtcaacg	atcagggtct	tttactaacc	420
aaacaccggc	tgtatatgtc	atcaaagcca	tttgaagacc	cgcgattct	gcccggcggg	480
ccggggattg	cctataccgt	ggatgacgga	atgcgaaata	aagtaagcga	tacgctggac	540
ccccgtttcc	ctggctgggc	ctggggaatg	gtctatatga	ctaagcaggg	gcttaagcac	600
agcacgcagc	aatttaaagc	taactggcaa	gattttaccg	acagcgtaac	cgaagtgaag	660
gggtacaccg	gctgggatca	tatgcgctgt	gatatggatg	cggggcgata	a	711

<210> 4738

<211> 711

<212> DNA

<213> Enterobacter cloacae

<220>

<221>unsure

<222>(634)

<400> 4738

ctgatgaaag	gattatgtac	cgttctcgca	gagacgtccg	ttgtgctggc	gaccggatgc	60
caggctaaag	aaccgcccac	acagggtgtt	taccggttcg	atgatcaccg	ttttctcgaa	120
ttgaaaggct	ggggctgcga	aggtgaactc	tggtatacgg	atacttttcg	gggtattcat	180
accaggcccg	tcagtcaatt	ttatcggatt	ttcaccaaaa	aatttggtca	tccttctgaa	240
cgatatattg	ccatacccac	ctgggatgac	ccaggaacaa	tgatttctaa	agattatggt	300
aaaacatggt	ctccccagtt	tttttcggta	gggcctaatt	agcccgatgg	tactaaccaa	360
ccatcctatg	aggatattat	ttctttcacc	gtcgtcaacg	accagggttt	tttacagacc	420
aaacaccggc	tgtatatgtc	atcaaagcca	tttgaagacc	cgcgcatctc	gcccggcggg	480
ccggggattg	ccataccggt	ggatgacgga	atgggaaata	aagtcagcgg	gaagctggac	540
ccccgttccc	ctggctgggc	gtgggggaatg	gtctacatga	ctaagcaggg	gctcgagggc	600
agcacgcagc	aacttaaggc	taactggcaa	gatntaccgg	acagcgtacc	cgacgtgaaa	660
ggctataaccg	gctgggagca	catgcaatgc	aacatggatg	cgggaaaata	g	711

<210> 4739

<211> 204

<212> DNA

<213> Enterobacter cloacae

<220>

<221>unsure

<222>(86)

<400> 4739

ggagataaag	cgatgaaagg	cgtcattagg	ttaaacgato	cgctgataag	cggaagaaaa	60
gtcactaagg	cctctggggc	aaactntatg	gggcagcccg	tggccttaaa	agatgatctt	120
gcgcagtgtc	cgctccataa	agggaagttc	gcaatcactg	attgtcacca	acctggaaca	180
tgcataggcc	ttgggttggtg	gtaa				204

<210> 4740

<211> 198

<212> DNA

<213> Enterobacter cloacae

<400> 4740

atggctaaat	taacagacat	ttacagttac	ccatcgttga	tagaaattgc	ctatcaagcc	60
ttgtcatatc	tgagttttaa	cctatcaact	gtttatatct	gaaaaagaga	taaaaagcag	120
tttttatata	acctgtttt	tgtctcaaaa	ggagatagtt	ttgatactgc	tgaaaaaggt	180
ctaaaaaggt	gtgttttag					198

<210> 4741

<211> 186

<212> DNA

<213> Enterobacter cloacae

<400> 4741

actggcgacc	aagatcgaga	atggtttggg	cacgaatggt	tccgtcgagg	tggcgggtgaa	60
tatcagttaa	aggcaggcgt	gtatcaatca	tggtcgcact	ctttgctggg	taaagtgcgc	120
catattataa	aaacaaaacg	gggtaaaaag	ctatttgcgc	aagggaatat	tccgttgcgc	180
aaataa						186

<210> 4742

<211> 303

<212> DNA

<213> Enterobacter cloacae

<400> 4742

gcgcgggatt	cagccaggcc	tgtgcggcaa	gacgaaggcg	ccaaagcggg	tgctctgggt	60
------------	------------	------------	------------	------------	------------	----

ccagcgacgc gccagataac cgtcaaacca gtccgtcacg gcagcgatca ggaaaataag	120
cgcacaggca aaaggcgccc agacgaccgg caggtaaaat gccaggacga agaacggaat	180
gagcacaacg cgaaagagag tgagcaacgt agggatatta aatcgcatga tgacggtaac	240
tgtctgttgt cagtaaaatt tagctctatg ttgctacaga gccctcaatg tttcaacgag	300
tag	303

<210> 4743

<211> 222

<212> DNA

<213> Enterobacter cloacae

<400> 4743

attatgaaca ttaccgacaa agaacttato tcaaatacag tgagacagta tggatggaac	60
ttacgagagt tcaatcactc aacgcctttt acatctcatt ttattttatat caccgactat	120
cataaagata atacatggat gatttcaact tgcgaggagg attttaatac aaccaaaatt	180
ttaacatcgt taagtctagg gaaggtgcga acaagttcct ga	222

<210> 4744

<211> 516

<212> DNA

<213> Enterobacter cloacae

<400> 4744

atggtagaag cacgttatca aggcaagcct gttagcagtc ttcttgaaga agcttttgcct	60
gaagggttat cgcgatccgg tttaagcccc gttctgtctac tggcatcccc gaccacagta	120
cccgttacca cggatgagcg ctggtggctc gcaaaggaaa acgtgtcagg acattacggc	180
aggatttttt atgctgcggt gcggggagttg gtcataagggt cggatatcat ctacagtagtg	240
agaagtattg cagatgagaa tttcaacgtcc gaacatatgg ggtacttcga gcgacttacc	300
tctgatgaaa aagaagtcgt gtttagtgat taacctgcga ctctcgtctga aggcgggtctt	360
acctgcactg agaagaatct cgtcaaactg acgcaagatt tatacccgat tgatgcaact	420
cctgacaaca ttagaaaagct atccacggac agggatgcac tgaacgaact acacatcgat	480
ggtatggtag tttttattac cggccctgcg ctttga	516

<210> 4745

<211> 501

<212> DNA

<213> Enterobacter cloacae

<400> 4745

aggcttaaca tgatagtaaa taaaaacagg tttatgcata aaaacgggaa aagggtttaag	60
tccatcgga ggtattttaag attttggcaa gcagtagcgt cctctggttt acccatggac	120
atggtaatac gggaaaaacc atatcaactt atggctcgctt tgattgcttt atatacggcc	180
atccctgttg ttacaatagt aattttatct ggtcagcaat cgcataagtt ggaactaatt	240
gctgtgcatt tcagtacaat tatcacgatg gtgtttgttt tgcgtcgaaa gatggggaaa	300
cgttggctgg atttatttga agaaaaatta gccatttata aacctaatga taaactcgcg	360
cttagcgaat tacacgaaag catacgtgag aaaaatgggc tagacttgca ggattttaca	420
gattgggtact ggaaagagaa gatgacatat gagtatcaca aagaacgtaa aacaactata	480
agctatcaaa aattcaagta g	501

<210> 4746

<211> 186

<212> DNA

<213> Enterobacter cloacae

<400> 4746

tatgggtttt cccgtattac catgtccatg ggtaaaccag aggacgctac tgcttgccaa	60
aatcttaaat accttccgat ggacttaaac cttttcccggt ttttatgcat aaacctgttt	120
ttatttacta tcatgttaga cctctatttt tctgtaattc tagaagaatg ttaccttaac	180
ccttaa	186

<210> 4747

<211> 201
 <212> DNA
 <213> Enterobacter cloacae

<400> 4747
 ataacgccta agctctgcac atcatccatg tttctggcct gttggctgtc tattctgatg 60
 gctgccatcg cgtttgcaact gagcaaaagc gcagccaaaa tggcgattgc gattcttttc 120
 atgatatgcg ctccacgact gcgtgctgtg atacggggga atgctctcct tctctgttca 180
 gggtttctga ttaaagtga a 201

<210> 4748
 <211> 189
 <212> DNA
 <213> Enterobacter cloacae

<400> 4748
 cgtgatccgc caggttttct gatcccgct ttcagcgcaa gcccctgccg caagcggggc 60
 aaaaggcaca aaacaacaac tattttacaa attggcgacc tggcaggctg ctttatcgcc 120
 cctttaaagt atatactgcc tgtcggttct tcaaaaatag ttgataatta caacattccc 180
 ttgaattga 201

<210> 4749
 <211> 234
 <212> DNA
 <213> Enterobacter cloacae

<400> 4749
 cgcaggtggc acatggaaat tgatctcgat aacttactct ttaacgggct ggatgaagca 60
 gaagagcgca acgcggaacg tctcgacgat gcggataaaa aagcccaggc gattgtcgcc 120
 gatgacgact gcggggaatg cctgcaagat ctgaagaaaa agcacgggc tccccggtgc 180
 ttttttatg aatgcctttt gttacctgat atcagatctc cggcgttttg ctaa 234

<210> 4750
 <211> 231
 <212> DNA
 <213> Enterobacter cloacae

<400> 4750
 cccggtaaaa aacaacgaca ccggtgtgaa cagataaaagt tgcacgcgaa agttctggtt 60
 atcaccaaac gcgttaatca tcattttgaa aacttttaaac agataaccaca gtgtcaacag 120
 tacggcgaaac caggaaaaat agataattta ccgaattcga ccatggttta tgggttttacc 180
 gaaattcgca ccgttaaaga atcccaaatg aagcaccata ttcttaaaag t 231

<210> 4751
 <211> 1110
 <212> DNA
 <213> Enterobacter cloacae

<400> 4751
 gtggatcact ttttaccgct tgttgacaag atggctttta attatattcg tgccgagcgt 60
 gaggcagaag aaccttaccg gcagatgctg agccaggctc tggccgatgg aaatattggc 120
 cagcctaate tgagatcaga gttgatagat cgatgcattg tagcctggcg agctgataac 180
 agggggggcga cgttggaagc tgccatgagt acagagaagg gctccaaaaga gctcctgaac 240
 cagctctata tgctcgctga tgtggggctc aaacatcttc cgggggttcg taattttatt 300
 agcagcaaaag gctatgagct ggtcaggtta tcggtaaatg cttcaggga aottggttga 360
 tatgccgcac cagcaaatgt tgaatgcgac aaccggatgg aagggcattg ctgggttcat 420
 cgaatggtac ttgctacatc ccgaaatgtc ttaaacgtca ctcatcaacg ttttgcgaaa 480
 atgaaaact tcttaccagc tgaaaaacac ctgttcgaag atgaacagct ggtggccaca 540
 tggtcgggca aaaagactgc tttcaaaagc ttcgaagaga agcagcgtta ttttgataca 600
 tgctcccgtg gcgctcaggc tcttaagcag tttttaaagc tgaacgatcc ggtgatttac 660
 accaatctgc ttggccagtg gattgaggcc tatgaaagta tcaatgaaac cagtgagtac 720

gtacagcaag	taagcctaata	ggctcctgtt	gcggtcaaga	gcgaaaaagg	taaagccagc	780
ctcatctata	ttggcactaa	agacctggcc	gactggtttt	atcagaaaagc	gccgacaccc	840
gagttgcagg	cgctgttcc	tgaggaatac	ctgtccaaat	ttgaaaataa	agagggtcaat	900
aaagaaaagc	tactttcacg	cagaaatacc	gctctgtctc	tcagttttta	caccatggac	960
aacggggaag	taccagatga	aatcctcgtc	accaaatacag	ttgataatgc	cagacgggtgg	1020
tattcaggaa	tgttcacaag	catgccaaag	atgttaaag	accagtgggtc	cgtcttcacc	1080
acgggagctg	gcaggatccg	cgcttattta				1110

<210> 4752

<211> 276

<212> DNA

<213> Enterobacter cloacae

<400> 4752

aactggcaga	tttgctacac	agtaaaccctt	catcgccgcg	tcatagtgcg	ctttcataga	60
cgatatctgc	tttcaaagg	gagcagattt	gccacatttt	tcatgtactc	cctttcaggc	120
ttagagagtt	ttattgtgca	gtcaccgcga	ggcgctcctc	acagactgcc	ggaacattgg	180
tggtcgcagc	ttaagtgcga	ctgtagccac	ccgaaggcgc	tcatcacagg	ctacaagagc	240
attggtggtc	gccagtgcga	cagtacaaca	gtttga			276

<210> 4753

<211> 459

<212> DNA

<213> Enterobacter cloacae

<400> 4753

cggaggggca	ggagatatct	catgtacaga	aacgacagaa	acgtggattc	cttcaacctg	60
gttaatgctc	ttcagccggg	ctttcgtaac	accggctgtg	ggatgtttga	atatgatcgt	120
aaaaagcaga	atgaaaccgc	tgattcaatc	ttacgagcgt	tggcgttaaa	tgccgatttc	180
gcgagggcct	taaaacagta	cgcccggtat	aattctgtac	gacgggttgt	tcagttcgat	240
gacggctcgg	ttcgctatgg	tattcatgcc	gaatttgaag	ggcataataa	aattaattcc	300
ttcgttattt	ttaaagatga	agatacagac	gcatttgact	cctattttta	ttcggtttgc	360
gataataaag	ctgagctggg	ggatttttaa	atggactctc	tcgatattca	attgcaggca	420
gtttttgaaa	agggtgacagg	tatttttctg	tcacattaa			459

<210> 4754

<211> 369

<212> DNA

<213> Enterobacter cloacae

<400> 4754

aagaaattac	agtgtgggtt	attagccagt	aggctggagt	tttatataat	acccaaaaac	60
acaggaggta	ttatgaaaac	caatctggcc	tatgcactca	attgctccga	ttctgtctac	120
tcctatattt	atcaggcact	gcaaaaacgc	tctggtgcgc	agaatgaaag	cctttatcag	180
caggccattt	ccagctgctg	cacagataaa	caaaaaaaga	aactggccgg	gtattatgcc	240
ggtccatgga	agctgctatt	caacgcgtgg	tgtaacaatc	gcgtccctaa	cacagcgggtg	300
ctggcccttt	tactccagca	gtgcttatct	catttccagt	gcgaaaaagt	gatcgcagcc	360
tggcagtaa						369

<210> 4755

<211> 555

<212> DNA

<213> Enterobacter cloacae

<400> 4755

aatatagatg	agatgaatat	gaaaaacgta	aatatttttg	ataccgatat	tgcgggcatt	60
aatgctcttt	ctggcgtaaa	actgactgac	tttctcactg	ccgggtatca	ggtaaactgg	120
ttaggagaaa	gggaggtttc	gctggtgggc	tttccgtggt	tagcaagcaa	caagcagccg	180
gtagaagttg	gtcccgcat	tttcattaat	cgcgtgtaca	gcagagacag	ccagtctctg	240
agcgggaaat	tgcgctatga	cctgtcctaat	ggtctggcaa	cgagtgcatt	ttcatttttc	300
tcccagtcag	gctgggatgg	gggattccgt	gtcgtatctt	tccgtgacaa	cgggccagct	360

gcgttaatca	acattggtat	tgtccatgag	aatgttttga	atgcattttg	tgctgacttc	420
ccccgggcca	atgtgagcgt	aaccctgttt	cattgtggca	tgacgcttga	gcagatccga	480
atgttcattt	cagacactgc	ttacgatatg	ccgctttata	acaacgagtc	tgactttcgc	540
aggctcgcca	gttag					555

<210> 4756

<211> 237

<212> DNA

<213> Enterobacter cloacae

<400> 4756

aatcgccagc	agatatcaac	gcccatlaag	aaactccatt	actatcggtc	gtatgagata	60
actatcattt	cagaatacta	tgactttctc	ccgtatagaa	ctaatacgctc	acgccattta	120
gctacttact	ttttttacgt	acgcttgcag	cgcagtagct	tgagagaagt	aagtaagact	180
ggcggaagcc	aaccgggttc	gccacctcgc	tcaccggctt	ttaggcgtaa	gcactga	237

<210> 4757

<211> 243

<212> DNA

<213> Enterobacter cloacae

<400> 4757

cgtatcacc	tttcgagcgg	cggaataacc	accgatgatg	acgtccgggc	ttccggactg	60
tattggcccc	gaatgtgcgc	tgacatctat	ggtcgctctg	gcggcaggct	gtcccatgtt	120
caaaaatcct	totacatatt	agctgttaat	tttaacaaca	gcgcctttaa	tatctgtcag	180
gtttgtacca	ttgagatgaa	gagtatcatt	agctttcatt	tcggcattta	ttccgcgcgc	240
taa						243

<210> 4758

<211> 186

<212> DNA

<213> Enterobacter cloacae

<400> 4758

acttctactt	ctacttctac	tttttctaac	aaagatgaaa	tttttgtccg	catttccccg	60
gttctgttgt	tcctgtcatt	aaccattgaa	gaagtgttaa	catcaaaca	attcgatata	120
acatatgtgt	ttttgacttc	ctgggtttaga	agcgcgatac	tatttattca	acgcaggaga	180
tcctaa						186

<210> 4759

<211> 630

<212> DNA

<213> Enterobacter cloacae

<220>

<221> unsure

<222> (481)

<400> 4759

acaactgtaa	ggtcaaatat	ggaagctatc	aataattaca	atagcgggtt	aaatcgccat	60
caattagggtg	ggtttatccc	tgtttacgat	caattagcag	ggactcacta	ttttttgatt	120
gatggcaaca	gattagggtt	tatgtttatc	tgtaatccat	ccoctggagt	ttttgataat	180
cagcaagatg	ttcttgctga	aatgttcaaa	atggatttcc	ctacagatac	tgtctgtcaa	240
atatctctga	ctgcattgcc	agacctgact	ttacagctta	gtgcttggtc	agctgtgcga	300
ggtgggcgta	tgactgggaa	cgataagctc	aaagcagatc	tgcttaatgg	ttatcagttg	360
gactactacg	acagaagtat	gcataagcct	ttaaaacctg	atcatgatac	ccttatgttg	420
agggattttc	aggtatggat	ctcgcctatc	attcctttac	agtttgccct	tcctaccgag	480
ntggaacatt	cgcgtatcga	ttcactttac	tctgaacttg	taagtaagtt	aattacgatt	540
ggattgcatac	cgtttaaggt	cgatgcagaa	aactggctct	attgtataga	taaggtcgta	600
aaccccgcca	aagaactccc	ggtgggctga				630

<210> 4760

<211> 459

<212> DNA

<213> Enterobacter cloacae

<400> 4760

actttcccgt	tggggtttat	tatgaaaaca	cctaatagaag	ctgaatcaga	gcttttacag	60
acattagctc	aagtacgcag	cgtaataaaa	aagcgacatc	atgacgaggc	ggaagagccg	120
gataagccat	cggtagtgaa	gaggcaacgc	gttacacaag	gcttaacgcg	gattagtact	180
ctcgatcgcc	aggetgtact	gcattgcagcc	atacgggaca	ttttgctggg	gaaaatcaca	240
caggagagag	cgctgaaaag	gctcaggggc	gaggtgttag	ggctgaagca	ggatgaatat	300
gcaaagctgg	tcagcgtatc	cgggaaaaca	ttgtcggatg	tagaaaataa	cagaggcaat	360
tattccgctg	acgtcataaa	taaaatcttt	aaaccctttg	ggcttcaaac	cggactagtg	420
cccgtttcaa	aatcgcttat	cgcttcactt	ttctcataa			459

<210> 4761

<211> 189

<212> DNA

<213> Enterobacter cloacae

<400> 4761

tactcccata	actotaatca	gcctggctgg	tttaaccctt	cggtaacctgt	ccatcaggtg	60
tcgttttttt	ccgtaagaat	gtctatagat	ggcgctccgc	agaaagaggt	gggtgttacg	120
gttattctgc	cagaaatccc	gttgtgttca	ggctgtgtcc	tgctgttccg	gcaggacact	180
tggtctgtga						189

<210> 4762

<211> 939

<212> DNA

<213> Enterobacter cloacae

<400> 4762

gttatgacga	ttgaaagctt	tttcatcggc	actcgcatgt	caggaaaacg	ttatggacct	60
cagagtaaag	acatgcaggt	ttctgaattc	atagcactta	tatctccgaa	aaatgaacca	120
gagaaatttg	tcctaccgga	tttctccggt	ctggcacgtc	ggattgacgc	ccagatccgg	180
aatcagttta	ttcagcaaaa	agaggatgac	tattaccgtc	gataccgaca	gctttcggac	240
cgggtggatc	aggccggctc	tatcagtgc	agaaacaatc	gcagccagcg	ttttgagaag	300
gtcatggatg	agtcgcttga	gtttttgggt	tacagtcatg	atgttatgcc	caacatcaac	360
ccatataatc	tcaaatacga	tgatcgcggt	caggttagca	cgaaaggcaa	aatgtactgc	420
gtagcgcttc	tgttccatat	tatcgctcga	gcggcctatg	agccagttct	tgtagggtga	480
gatactacgc	tgcaaaaggca	ttgcaagtgg	ctgaaggact	ggattaataa	aacgttaggg	540
gatcattttt	tagaggggaat	gatgattact	ttcgcccttt	gttatcctga	ccactttcct	600
gccctgcagc	gccttagcgg	agagttagaa	acacgtgatg	ttgacacatt	cctggctgac	660
gaagttcgta	aggcaaggca	acacacagag	gaacaggtta	attatcataa	cggccggta	720
cggttgaaat	tcgagtacac	tcactttcac	caggagcaat	ttgatttttt	agccgaaatg	780
cgtgatctcc	attaccggat	agatcgattt	gaacagctcc	ttcagaaact	gatagataac	840
ccggtagtag	atttcagtga	agctgctggt	gcagggcagt	ggattgacga	acaagtacag	900
ctgcttgaaa	caaacgaaac	gaagctaata	ctcccataa			939

<210> 4763

<211> 291

<212> DNA

<213> Enterobacter cloacae

<400> 4763

agtccattga	gtaggacgcc	cgcgcctctg	ggggtggaag	agtgtttgac	attgatagag	60
tccattaacg	ttaataagag	gactctatca	tcgtcaatcg	ttagtaatcg	caacaggcgg	120
cagtggtctg	acgcttacac	ccaatctccg	gagattcaca	tgccctttct	tgattttctg	180
aaaatcattc	agaagtttca	gtgtgcaact	gtgctggaaa	aagtactgat	gctgctgttt	240
gtaattctga	tcattgtgca	acagggtgat	gatacgttct	gcagtcgata	a	291

<210> 4764

<211> 597

<212> DNA

<213> *Enterobacter cloacae*

<400> 4764

tcaaggggca	ttatggcacg	cacatacggt	aagcaaacag	tacagaacaa	tgaacaactt	60
tttgattcct	tagtgataaa	tgccatagat	ttccttgagt	catcaattga	tgattttaat	120
attaggccca	agaattcgat	tgttgatttc	tatacagcca	ttgaactttt	cttaaaagca	180
aggttaatgc	togaacactg	gactttaata	ttagatgacc	ctagcaaagc	taataaacia	240
aaatttagcg	ttggtgactt	taattctgtg	tattttaatg	acgcagttca	acgtctcaaa	300
accattattg	gcattaaact	tgatgacaat	atccttgatg	agttcagaac	gttaggtgcg	360
cataggaacc	aaattgttca	ctttgcacac	actggatatt	caagcactca	agctaataaa	420
gcaggggttg	tagctcaaca	atggtcttca	tggcaccatt	tatataattt	actcactggt	480
gaatggaaaag	atgaatttat	taaattttaag	gaagagtttg	agcgtgtgca	taagagaatg	540
ctgcaacaaa	aagatttctt	cagcaccoga	ttcaatgagc	tttcaaaggg	agattga	597

<210> 4765

<211> 453

<212> DNA

<213> *Enterobacter cloacae*

<400> 4765

gtgaagacca	atagattcat	agtttctacc	gttgattgta	tcaatgaatt	tgcaagtgc	60
gttccgcaga	gtgtttcctt	acggatagat	acaatgcttg	aacagcgtat	ccgcaaattg	120
gcggcatacg	tgaaagaaaa	cgatcttcat	ttaactgagt	tttacttcta	tgacgctaac	180
tggtcatttt	gtggtgaaga	tgaaattcaa	gaaataaaag	acatggatga	atataagcat	240
agcgacagca	taaagcagga	agcgatgctg	cggaagtaa	tgccatcagc	acgtacggaa	300
tgcccggtta	ttagggtgat	gaaagattca	tttcagcttt	cagctctacc	acgccattgt	360
ggtgatgaca	tgactcttaa	cactcctttt	attcgcgtgt	ctgagttgaa	aacaaataat	420
acggcattta	ttacgcccgc	aacctataac	taa			453

<210> 4766

<211> 414

<212> DNA

<213> *Enterobacter cloacae*

<400> 4766

tgcagcatat	accgtgggtc	aggaaaatat	atgtttattg	aaaaaagcga	ctcatttcctt	60
gaattatcct	cagaagttat	ttttcctgag	goggotaatg	ctgccatttt	gaaacatgat	120
aaatgggcgg	atgtttggga	gaccctgaca	accgatgccg	atctgaacta	taccgatgaa	180
aaggagactg	tgagtctttc	ttctctggtc	atgtcagcca	catctgctat	ttatcaggct	240
attacggacg	gctggacaat	gtgcgtggga	tacagtggcg	gcaaagactc	ccattctcct	300
ctgcacctgt	ttctgatggc	attgatcagg	gcagtaagta	acggcacaaa	tatcagcgaa	360
catcatttca	ttcagatgtc	cgatacgaac	tactaccaca	ctgttacagc	gtag	414

<210> 4767

<211> 222

<212> DNA

<213> *Enterobacter cloacae*

<400> 4767

gatatttgtg	gtgatctcat	aagcacattg	tggacattta	ttgatatctt	aactgaaaaa	60
tttgaatggt	actttacact	ttgggcaaag	caaactatcg	gtgaattgct	ctaccgcata	120
gcccttgcca	ttcccaaaca	agaaattcat	aatcatcttc	ccccatttat	gagtatcatt	180
aactttaacc	ggctttccac	ggccccattt	gaccgcactt	aa		222

<210> 4768

<211> 228

<212> DNA

<213> *Enterobacter cloacae*

<400> 4768
gcaaaaccat tggctcggtc gctttcagtc cggttcgcca agacctcata tcagtacttg 60
atggctgtgg gaaatcttcg ggatgcgtat gccattcgcc caaatagact agagaaccat 120
ctgattgctg aaataagtca tccaactttt gctgatgatg ttctcctttt ctttctattc 180
gtgttcgcga tcttacatca cctgatccag gttctgatat gtgagtga 228

<210> 4769

<211> 930

<212> DNA

<213> Enterobacter cloacae

<400> 4769
catgattggg tcataggaac tatttactcc ccatacgtta tgaacatatt cttgccccaa 60
catcttgaca ttgccaatcc gtatgtaaaa atacaaaaaa aaagttagca agatagagaa 120
atggaatcaa aaaatagtag tttttatttt gatagagttg actttttatc taagtctatc 180
agctattcaa cattaatgat ttcttgctta tccatcgctg ggattttttt gaattctcat 240
tggctctacg gtatcgcaac cctcactttt ataatacaac tctcacttg gtttgcaatg 300
catttttaaaa ctctgtatgc agctaaggct atagaaacaa aaagattaga aatgctgaga 360
ggtattatag gcgaggaaaa tttttatcga gagcggctct acattgatgg gaatgcggaa 420
aataaaaaat gctttcgtgc agagagggtta ataacactca tacaagagaa tgcatactgg 480
aactctatct tatattataa agctttccag cagaagtatt tctatttatt actaacaata 540
ctactactaa ttactataat tattattatg tataccacgc tgactgataa tttagatttt 600
cagtatagcc gcgccatatt tgggatacta gtcataaata atttctataa tttattctca 660
gaggtgtcag gttttctcaa cgtccacaat gagatgaaaa aaatagatag cttcatagag 720
attaataacc gcaaagcacc agaatatcta tcttatatat attctaaata cgaacatgag 780
atattttattg ctccaagcat taataatgca atttatttaa aacacagtat gcaaaataaaa 840
cagacctggg cccagcggct ttataataaa aataactttc aaagcaaaca attgatcgac 900
gcgattacag aattttacatt agtacgcccg 930

<210> 4770

<211> 792

<212> DNA

<213> Enterobacter cloacae

<400> 4770
ccccggttga gagctccttt gccgctagtg gcagggtgtag aaaatcagcg cttgattgcg 60
catccttcgg gtatgtggct ttttgcatag gtgctaactc tcaaaacgca ctgctccggc 120
gacgaggtca tttcacgtta taccgtacag aaagattaca atccgcaaga aggaggcgga 180
aattatttcc tgattaaagc ggcctgtgcc gctcgcgact accctgcgct gggaatgat 240
atttacttta ctgtagtgaa ctgggattta ctgcacgtg gtaacttggg tctggctgaa 300
ctgcttaaga ccgtgaacct cagtgtctaa aacagcagtg gattttaaagt accggaatcc 360
tggcaggtga atccccctac agaaacgcgc ctgggtggcg agcactcgtt tgatggcatt 420
aactacggtg tcattaatct ttgctttttt tgcaggaga tgttggtttac cgcgcaggat 480
gttttttagcg tttcgattaa acggtttcac gatcgagaa ctcgccgttac gcttaagact 540
gaagcacttg ctactattcc aaatgagttt aatccatccc tcggaaaaac actgtggaca 600
tgccgggggg aaatgttcag cgcagaggaa gaaatgcgcg ctgtttacca gtgctatatt 660
tttagcgtgg gcaaagtctg gtgctatgca gaactgattg gcagacacog taactatcat 720
gattaccact tccaggcgaa taaacgctgc ctcgaaatca tccgtgcaac attccatata 780
gaaaatgtct aa 792

<210> 4771

<211> 399

<212> DNA

<213> Enterobacter cloacae

<400> 4771
ttaactgaat ctactgcaat gaatgaaatg acaatgtttg gttacgttga tagagcatta 60
acttttagcac agaaaagata tgcagacgtc aagaatcgtg atccccaatc cccgcttttg 120
caaagtgtac actctattgt acaacaatta ttattttctac gggatttaat cgaaggcaag 180
gaaaaggata gagcgaaatt atgggatatg acgttcggta tgtatgcagg gaaggagttt 240

gatcattctg	atgagttggt	ttttgaaagg	ttgtcagatg	cctgggtttat	tgtggatcaa	300
atccgccgag	ggttaaaggt	taggctgccg	catgaggctg	ataccaacta	taataaaaaag	360
aaacaaaacc	tcatgaagaa	attccctgat	gaatttttag			399

<210> 4772

<211> 252

<212> DNA

<213> Enterobacter cloacae

<400> 4772

ttctctgagg	tcagttactc	cactcatggc	attagatacc	aggagcatat	taatgccagt	60
aagaatgatg	cctgtaacaa	cagcaaaagt	tataaacgac	ctgaaattag	tcagggttata	120
ggtttcatgt	ctgacaccgc	ttattccata	tatctgaaaa	aatggcaatc	caaataattac	180
catcaaattcc	agataaagaa	gaaaacgaat	aacaatcata	atcaggctcgt	tcataaatatt	240
acttcactgt	aa					252

<210> 4773

<211> 405

<212> DNA

<213> Enterobacter cloacae

<400> 4773

tgtgtaaagg	agcttaaaac	tctaaatgga	cgaacagggg	aggtgacaaa	gatgacaacc	60
aatacaacaa	cgaccaccta	ccgctcagaa	gaaatcgtgc	cgttcagacg	gccccaaagg	120
gatctggata	gtcgggtatat	gcctcaggtg	tatgcaatgg	tgcggaaactg	ggcaagtaac	180
cctgctcaat	atgggtgaggg	tgtactggcc	tcctaccgcc	aaccggcagt	aaaccttgcc	240
taccaggtaa	aaggaactcg	tgttggttta	attctggtac	cagtagagtg	cgagccacct	300
ggagtgataa	tgacggaaac	agtcctgtgg	ccgtcactat	cacttgtaga	agtcctgcag	360
accttgccagg	aggcctggca	aaatatcccg	gcgttaaacc	cctga		405

<210> 4774

<211> 306

<212> DNA

<213> Enterobacter cloacae

<400> 4774

tcacatacaa	aggagggcat	tatgaataca	tttttatacg	tgcttttggc	ctggattggt	60
gtgcttttta	tcgccaacaa	actgctcgca	agacgtaagc	ccaatacggg	taaaatcctg	120
gtacagcgca	acgggaaagc	cgcagaggtt	gatgctgtag	tggttcaggg	ttcaaagaga	180
gctaacaaca	gttctgttgc	ggacagcgac	gcggtagata	gttatattga	aatgaatcct	240
tactcccgcg	aaaaccaggc	gaatggttgg	gctatgctgg	ccagagacga	tgaccagctt	300
aaataa						306

<210> 4775

<211> 309

<212> DNA

<213> Enterobacter cloacae

<400> 4775

ccattccggc	ttgatgccat	caaacttaca	acgtccgttt	atgatgacga	cattgataca	60
ttccagttct	ctagccttaa	gagcagactg	aatagccctg	atgtgcccct	ggttttgctt	120
aaacgggttc	tgcaacttga	gggttcggga	ctgagtcctat	ttccgccagt	ggctttcctc	180
cagagtaccg	tagagcttgc	ctacgtagtt	tttctgctct	atgacgtata	taccatgtgg	240
ggctacgaga	atgtgatcaa	cctgcgtagt	gctatgagcc	gacaactgaa	aggtgagatc	300
actaagtag						309

<210> 4776

<211> 222

<212> DNA

<213> Enterobacter cloacae

<400> 4776
 accggctgga tctgcggcgt ttgctgcgcc gttgaggtgc ccatttttagg cggaggggtg 60
 atcaacattc cgctggacgt gttaccgcag ccgctgggtc cattaacgga actgacgggc 120
 gcaggcgcggt tatttgaact tgtacagcct gccagccaga gcgaaaccag tgataatgcc 180
 gcaaacagtc ttcaccgcgc gggccggcag gaaccgcagt ga 222

<210> 4777

<211> 561

<212> DNA

<213> Enterobacter cloacae

<400> 4777
 ctgatgaggt ttttgaatcc ccaatggcga aagccgtgta cgttgctggt gggcaaagt 60
 cgcttgctaa aaagggtggc gttacgcgaag gagctgtctg gaagtgggtc agggggatca 120
 agaaagtttc tccggtccat gcagtggcag tctcaaacgc agttaatgga gttgttaagc 180
 ctcatgaact gcgtcctgat ttgccgactc tttccctca cccgggcaat gaggtgtgat 240
 atgtcgcggc atgtctggagg aatcatgaat cactctgact tcgtacgtaa atattcattc 300
 gataaccacac ttcagcgggtt ggtcatgctt cgcattttta tgggcggatc tatggatgga 360
 gaaggggagc gagtaatcga tcatcaggta ctgtacgaat tctgttgctg ctcaaagcag 420
 gcaatgttta aggagatcaa ggcccttgaa cgagcaggct tcctgaaagt gagaaaaatt 480
 ggtgctctcg ataccgggct tgcagttcgt cttgagccag ctccgcgcta cacaatcacg 540
 ccagttcagg agtttgtgtg a 561

<210> 4778

<211> 210

<212> DNA

<213> Enterobacter cloacae

<400> 4778
 tcacccaact gcttggttttc gataaacaag ggaaacttac gaaacacttt acgaatctct 60
 gcaagcataa taaataaatt caactatcat tcatattgtg aatggatacg gagtaagagc 120
 gtggagccta ctaatttacc agccaaacgc ctgaatgaaa ccagcggcga agataagccg 180
 caaattttcc ccgacgtctt cactcactga 210

<210> 4779

<211> 201

<212> DNA

<213> Enterobacter cloacae

<400> 4779
 aatagtggct ctggctcacc gaatgaagac ctatgtcctg tgattattgt caccaaatat 60
 cgtattaaac cctccctgtc actggctaac gacgaaaact tattttatca ttcaaaaaat 120
 caaggcggat tgatccggcc tgaaagggtc caggttacgc ttagttcagg ttgcactaat 180
 catccgccca cttttactta a 201

<210> 4780

<211> 354

<212> DNA

<213> Enterobacter cloacae

<400> 4780
 catactccga ggaataaaat gaatattgaa gttttacgct atctcgaaag tgacggtcgc 60
 gaacacgttg aggaaaagg gcaaccgacc aagtatgata gtgaagcaac ttttgcagta 120
 ataaagattc tcatagccaa tgatggcaat gcagatgtc tgagtataaa gcaaaaattc 180
 catctcaaaa ctttcgtaga acccttaate aaccgtgttc cttgctctgg tatctatggt 240
 gaagatacct gcacaggcga tggctttgtt gacgatgaat ctctgttgat gagctatcaa 300
 gaggacgatt ttatgtgcc aactgcgcg tatgatgcgg aaaatcgaca ttaa 354

<210> 4781

<211> 399

<212> DNA

<213> Enterobacter cloacae

<400> 4781

aagggcggcg	gcatgagcag	gaaaagcaca	tacaaaaacca	aagccgaaaa	tgagcacctg	60
gcccgcggtt	ccgcgctggg	atgcacatgc	tgtaaaaaaca	tcggacatga	agataactccg	120
gctgaaatcc	atcactgcag	caaaggcacc	ggcttagccg	ttcgtgcaga	taatttccat	180
gtcatcccg	tttgcgccat	tcaccacaga	caggggtggc	acggcggttg	aattcacgct	240
ggccgaaata	cctgggtaca	gaaatacgg	acggaagcag	agctgctggc	acaggtaa	300
gcagaattgg	ggatagcag	atggcattcc	atccaatcaa	tatcttcaca	ttacaacctt	360
aatggcgcgg	ccagtttact	gaaggaagaa	aataaatga			399

<210> 4782

<211> 282

<212> DNA

<213> Enterobacter cloacae

<400> 4782

gcaaatTTAA	attactctga	tgtctccaac	gataatacac	tgtgtaaata	tacagtgtgg	60
tggtttctaa	cgggagatat	catgcacatt	tcagacgatg	tgatacccg	cgcagcggg	120
catactggcc	ctgttttagt	ctatctagag	tgtggtcgga	ttagcggcgg	atttgtttta	180
cagccagatg	agttcgttac	ttcgtcggt	gctcttgatg	aagcgcgaca	gcacgcaggc	240
cttactccgt	gctcttttag	ccatccagta	agtgatttat	aa		282

<210> 4783

<211> 267

<212> DNA

<213> Enterobacter cloacae

<400> 4783

actgttaatc	gctcattttg	ttattgggtat	ctctctgaga	acaattgcaa	agaaaaagaa	60
atgctcggat	ggtactgtaa	gaaaagatct	gcaaaccgca	ctcgggttcg	tagaggggt	120
gatgtcaatg	ctataaaatg	gggggatgcc	ccccctttac	tttactgttt	taacagtagc	180
cttatatttt	gcctaataat	gattagacag	tgtaataaga	aaaaaacagt	aactatggca	240
agccagacgc	aaaataaaca	agcgtaa				267

<210> 4784

<211> 288

<212> DNA

<213> Enterobacter cloacae

<400> 4784

cttccccccc	cgaatggcgc	gctgatgcct	ccatcccacg	tggtcgaaga	caagcgtatg	60
aaaaatattc	gtacagtcaa	aaagggtgtt	tcagagatgt	tagtcagggt	cgaaaacttc	120
caagagatct	gtcgggtata	cgtagaccgg	aaaatggagc	tttgttttac	tacggatagt	180
gctgacagga	gtaaattatg	ggaaattcaa	agccgcgaga	attgtagcta	tggcgaggca	240
atagaaattc	tctatgctca	agaagtagca	gcgggttttg	ccgcgtag		288

<210> 4785

<211> 249

<212> DNA

<213> Enterobacter cloacae

<400> 4785

cgtcatattc	ctgcgtgcgc	gtctgcgcac	accagtgcac	gggctttttt	cggtcacac	60
attaccgggc	aggagatttt	atcaggacgt	ggtgtgactg	agcagcagct	ggggcactgt	120
catccgcttg	cagatttaac	ccccttaatc	gccaaactgg	cgttcagctc	tgatagtgtc	180
cttcgcgcct	gggcagggtt	gctaacactg	gctcccttaa	tacgaaatgc	gcctgctgat	240
aaagattaa						249

<210> 4786

<211> 576

<212> DNA

<213> *Enterobacter cloacae*

<400> 4786

cgggagtatt	accggttatgg	tgatgctcgt	cgtttttacat	cggagagcat	tttaatgaat	60
tttcaaacta	acgaagtttt	taataaaatt	gctgctgtta	taaaatcgcg	catcgtcaat	120
gaaccatcgt	catgctattt	gctgcatgat	aatgagatag	atataacgat	tttgaaacat	180
ggcatattag	aaaatgacag	aaacctgttg	tacgtagttc	gtccttcagg	aacgtgtttg	240
ttgcgtttgtg	acaaatattt	ctatccgaaa	tattatcttc	gttgccgtgg	agattataag	300
tcattcatat	atgtccatct	tgatctacat	agtgggtgaag	ctaaagaaat	cacatgggag	360
caagcagacg	atatgctgtc	tagtccagga	aaaccccat	taaaaggaaa	tcttggacga	420
tttgagtata	taaaagttgt	ggttgaggac	cttcgtatct	gaggttacgc	tgattatctt	480
cctgcgtata	atcttgatga	ccttcgccgt	tttgcccttac	aggacgaccg	cccattccctt	540
gtcagatata	ttgacaatgt	aatggcaacg	gtctga			576

<210> 4787

<211> 924

<212> DNA

<213> *Enterobacter cloacae*

<400> 4787

tggccaacct	gcattcagga	ggcctcaata	acgactggag	gctgtatgaa	gttagctacg	60
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tctaaattat	ctttgaaaca	accactgaca	gaacttaaat	tcagtattata	tttgcgaaact	180
gagcatttat	ctcacttcct	acccgggtat	gtttattcta	taaaagaatg	tccactgtca	240
tatgacatcg	ggatcgaaat	tcagaaaatc	ttcgaaagtt	tacattttgt	aaacgaagaa	300
tttgaatccc	tcggtttttgt	ttctgtatgg	atagaaatgc	atcaaagcat	ttttgaacaa	360
agtcggttta	agaaaagtaa	ctttactttt	cgggaggaag	aggtcgagct	tgctaaaggg	420
cttgttttgtt	ctcacaattc	acaaataagt	aatgcggctt	atttctggct	tcagcacttt	480
gaggagttaa	tgatttatgt	tcgtaataaa	cttatcgacc	tctttcgaga	ggcctatgac	540
ctgatccctg	gaatgcagca	agtatttttc	attcgggaaa	aggaagagct	gttgaaaact	600
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gaacagaact	taaagtgttc	tgaatcgata	agtacaaaat	ctcaagcttc	ggcatatatt	720
aaccgcatcc	gtgagtttgt	gcgttcgggg	tggaggcagg	gctatatagt	ctgccatcat	780
aagcgaagta	atcaaattctc	atcattgtca	ttaccgatgt	acttgaaaga	tacgtcaggc	840
cgaagtgtct	gaaagcgagt	aaaacgtcct	atatctttcta	cagtttgttg	tagaaataaa	900
gatttaggtc	ttacagattt	ttaa				924

<210> 4788

<211> 1353

<212> DNA

<213> *Enterobacter cloacae*

<400> 4788

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ctgtcttctg	caccgcagaa	ggcattgaga	aactcacaat	gccagataag	agagatcctc	120
atgacttatg	catccccggc	tcttcgtcgt	aaaccacagg	aagtatctga	acaatttatt	180
aaactcgttc	atgctcgaat	tgtggaagtg	tctggctgga	agtatatatt	cgaaagaata	240
cctgctttca	aagacgcttg	tgcaaaaagcc	cggagccagg	ttccttgccc	gtttactggc	300
gcagggaaat	cgaagtttcg	tttccgacaa	aaagaccttt	ataccggatg	tgcatcccat	360
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atctcccgct	tactgagtca	cttaaccaag	gatttaggct	ttaataaccg	gatctactat	720
tgggataaag	ataagcagaa	atcgattatc	tatccgggaa	tgattgcaat	ctatcgtgac	780
acccgaggtc	ggcctctgac	tatccataga	acatacgtag	acaaaaacgg	tgataaggca	840
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cagttgtttg	accctcacta	tgattcaggt	agttcgacct	ggacactggg	agtggtgtaa	960
gggatcgaga	acgcgctttc	tgtgttagaa	gcgacttcaa	caccatgctg	ggcagccagc	1020

tccgcatggt	gccttgaaaa	cgttactggt	cctgattttt	tactgcctcc	gccggatgta	1080
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tatcccgcat	caaagctgac	aattgaagtc	ttcgaaccag	cacaagatat	tcttgatggg	1260
aaaaagggtg	togaotggaa	cgatgttctc	cagttaacag	ggcaggatgg	attcccatt	1320
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<210> 4789

<211> 345

<212> DNA

<213> Enterobacter cloacae

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ggcatgttct	ctggatgttc	ttttgatgct	gatgtttcac	tggagtttat	gtatgaatca	180
gcaaaagcat	atagttcttg	cttcgtgat	attccctttc	caggttttga	agatgcaaat	240
ctggaggaaa	ttacgaaatt	tcaattagat	gctttgaagc	aaagaaagaa	tcatctcgtt	300
ccattgttgt	cttcacagc	acgtgccaga	tccatcaaga	cgccc		345

<210> 4790

<211> 327

<212> DNA

<213> Enterobacter cloacae

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caggttggcc	atcagggaaa	atatgtaaat	caattagcaa	ccaatcagac	cgttgccatt	240
acattgtcaa	tgtatctgac	aagggatggg	cggtcgtcct	gtaaggcaaa	acggcgaagg	300
tcatcaagat	tatacgcagg	aagataa				327

<210> 4791

<211> 564

<212> DNA

<213> Enterobacter cloacae

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aaggaaatgt	gggtcttaga	cagagtaaaa	tgggtagagg	atttttgtgaa	aagtggggtg	180
gaaataaacc	tacagaatac	ccataaggaa	agatatgaca	taccagttgt	aaatgaagaa	240
aacgcgcaga	tattcattga	tggtttaatt	aacgatgggt	attcatacga	taaggatgac	300
attgctgagg	agttttataa	aaggctttcg	caaaaaacaa	tttgggtgga	tatatatgaa	360
cttatgccgg	atttatttat	agactttgat	aataaaagat	tatatccgga	atatgttgag	420
agtatgcatt	atcaagaata	tgttcctgat	ggttggcaag	gtgaacttgt	tgatttttgc	480
agtaatggat	cgttacotca	agatgaaatg	ttctggataa	aaaatgaaac	tgatcataga	540
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<210> 4792

<211> 342

<212> DNA

<213> Enterobacter cloacae

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accggcaaga	tttattcgtc	cttttatgag	gtttgtgaag	gggacgagat	ttattataat	240
tttactcttg	tgcoctgaaa	agaagcaatc	actgctaagt	ttttattaga	cgacccttgg	300

ggaggggaaaa aatacaatcc tctaaaagag ggtttttttt aa

342

<210> 4793

<211> 198

<212> DNA

<213> Enterobacter cloacae

<400> 4793

accgctacct	ctacagaacc	tttaccgctt	gaagactctg	ctgagaaggt	cacgcacaac	60
cgtctgacgc	agotgaacgt	cattcgctgg	cactactgtt	atgacgggtg	acatcacctg	120
acggagggtca	tcagccagct	gcgggacggt	aacaggcgcg	ggacgcaggt	cagcttccgt	180
taccttcata	cattgtga					198

<210> 4794

<211> 270

<212> DNA

<213> Enterobacter cloacae

<400> 4794

caatatacta	ttgatcaagg	gaacgagttt	cacgacaacc	aaaaatacgc	cgaggcttta	60
gagcaaaaacc	aaaaagcctg	gcaagcgctt	cctgagccaa	agctcgaatg	ggaactcgcc	120
aactggatcg	ctgcctgcat	gtacagcgca	tgttttgatc	ttgcggatta	tgctgaggaa	180
aacaaatggg	gaaaaacgac	attacggaca	cgtggatcgg	atatagacac	tgcacctta	240
atcgatctcg	gcatggtctg	ttatgagtga				270

<210> 4795

<211> 309

<212> DNA

<213> Enterobacter cloacae

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aggataaaat	atattttcgg	caaaccattt	ttagacattg	caatggtcga	ttcaacaacgc	60
caattttgtg	ttgtgttaag	cgagacaaag	ccgttaccaa	tcgttttgac	catcttcaac	120
gctcagggtg	aaaaactatt	ttggcttaca	tctcctgaaa	gtgctatatt	ctattactta	180
acattaaacc	agtcaaagga	agtggttggt	gtatgtaatt	ttacagtaat	acaaaatggc	240
tggcataatt	ggttttattc	ttgggatatg	aagcgtaacg	cgttgtctag	atcaggacct	300
tcgtactaa						309

<210> 4796

<211> 237

<212> DNA

<213> Enterobacter cloacae

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acgtgttact	ataattccgg	agtaaaagcg	atgacagatg	aagagttacg	aaagaatctt	60
gtttttttta	taaaaaaata	tgttccggaa	agtcaacaaa	aagcatttta	tgatgatata	120
tcaaagtcta	ctgtgccagt	gaaagggtatt	ttagctgact	ttaataaaat	caaaaccaga	180
actgttgatg	aagttgatgg	agatttaata	cgggatattt	acttttattt	ttgtttga	237

<210> 4797

<211> 498

<212> DNA

<213> Enterobacter cloacae

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acggatcgcc	cgagcagcat	cacgatctcc	accgcgaaca	gcggcgaggg	gaaggagaac	120
aaagagaacg	ccgaaaccgg	cagcggcaaa	gaaccggagc	acaccgagcg	gaacaaagac	180
acgaacaaaa	cgaccaaaagc	gcaggggaaag	gggaagggga	agaccaacag	cgccgggtac	240
aatcaaagaa	cggcaccggg	ggaaacagag	cgcgcgccgc	agagagccga	acggcacgga	300
aaaaaccaac	gcgaagccgc	aagccggaca	ggaggagaaa	cggaaaaacc	aaaggagaagaa	360

gaaaggacag ggcacgacg gccagacca gaacggccac ggagcggacc agcaaaaaca	420
ccaaaacccg gcggcgagc acaaagcacc gagatcacac agattaaaac cgccggactg	480
gcaggaaacg cgattccg	498

<210> 4798

<211> 201

<212> DNA

<213> Enterobacter cloacae

<400> 4798

tcaccaggca gatgcgaaac ctggctgagc gtattcagcg cgacccgtgg gtggtgcccg	60
aagattcaga ctgccgaagt gctgcacgcc aaatggccag aactggtcct aaggttttgc	120
ccggtgaaac tagccgacag caacggcgta ttcggaaaaa acaaatgcga tagcacgac	180
cccaaaggtt ttcgtggata a	201

<210> 4799

<211> 264

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<213> Enterobacter cloacae

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<400> 4799

atttgccac ggacgtaccg ccggaatttc aacactcgga aggtttntac gtcatttctt	60
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cgtcagcccg catcgttacc tgtggtaatg atgatggttg tagtaatggt ggtgatgctg	180
atgcgtttca tggatgttgt gtactctgtc attattatct gtctgtgtct tattctttta	240
gggttaaagg atcgagcccc ttaa	264

<210> 4800

<211> 690

<212> DNA

<213> Enterobacter cloacae

<400> 4800

agggtgggac cgcggtccca cccgcaggg gggcacatgt cagaaccgag cagcaatgag	60
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cagcagcaaa tgctcatggc atacaaccgc gcgctgaaca gaacggcgaa gcatatgcac	180
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gacgattaca tttttgaaaa tatcggtct gtattcatgc gctattttga gcaggattta	660
cggggccgcg tggcggggaa cgttcaatga	690

<210> 4801

<211> 591

<212> DNA

<213> Enterobacter cloacae

<400> 4801

gcaggattta cggggcgcg tggcggggaa cgttcaatga cagctactgc tgaagcggga	60
atggacgctt ttgatgagta tacgaaccgg gttcgcgcag cagttctgca gatccctttc	120
gtcaaaacgt ttggtgtata tccggaaatc ccggaaggat tccaaacgcc agccgtcttt	180
tttgaaattg aaaactggga gccgagcagt gaagtgatcg ctggctcagc gctgacagtt	240
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gccaggaacg cggcgctgta tatatcgagc tggatagacg gtcgggggatt tggccccggcg 360
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<211> 198
<212> DNA
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ctgcggggct gtgactag 198

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<210> 4803
<211> 312
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<213> Enterobacter cloacae

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aatacgctgc atggtcaact cgctgatatg aaagtaaaaa tctcacgcatt gagctttggc 60
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gataatcgca acaacgaatt ctgtcaggat gctgtttcgc atcagggcaa cgctgcgac 180
ataattccct tccctgacca taacttcaag ccggggaccc aggtgaaacc ggtttgctgc 240
agccagaaga agcatcagaa caaacagagc cgtcttgga agcaatatcc tccccagga 300
actgttgaat aa 312

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<210> 4804
<211> 372
<212> DNA
<213> Enterobacter cloacae

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<400> 4804
gatgaggctc aggtgcgtaa gaggctgatg cctgtcccg tggtatannnn nnnnnnnnn

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nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnncggact cacggataaa 120
gacgtggcgg ggaaatacgt gaatgcaaga ggggaacaaa ggatgcgcen nnnnnnnnnn 180
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 240
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnntccc 300
cgcattccct gcctttcggg ctaccctgtg cagtcgcgtg ttatggccgc cgtctctatt 360
gccacgcctg ac 372

```

<210> 4805

<211> 257

<212> DNA

<213> Enterobacter cloacae

<400> 4805

```

accgccttcg gattaaagtg gcggtctttt ccatgcgggg agaaaaacgg gttgatgaaa 60
aaattggggg attatgtgga atatcattcg caggaaattt tgctcgccaa cgagcaggat 120
ctgctggaag cgcgtcgcaa cggcttgagc gaagcgatgc tcgaccgtct ggcgctgacc 180
ccggcgcggt tgaaaggat tgccgacgac gtccgtcagg tgtgcaacct cgccgaccgc 240
gtagggcagg tgattga 257

```

<210> 4806

<211> 378

<212> DNA

<213> Enterobacter cloacae

<220>

<221> unsure

<222> (295)

<400> 4806

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gaggacgtgg ggtggcgtgt gactcgagct acaaaaaaag atttatcgtg gtttaacctc 60
agtaattacg attttattaa taatttaact ctctctgaat tcctcgttga gcttgagtgg 120
cgagatttcc tttatcgtaa tgtaaatgag gatgatttat tttttgatga agaatacgaa 180
attaaatata agcgtatatt tggaggggat cctcatottg atattccaaa tgaagaagaa 240
aaagagattg atgagtttgt ccgtaaagta aacagcgaga ctccgtcttt gctanatatg 300
tacggtactc tacctcacct accatcagat cctagggtaa gccccattag ttttactgaa 360
ctttctaagt atgggttaa 378

```

<210> 4807

<211> 183

<212> DNA

<213> Enterobacter cloacae

<220>

<221> unsure

<222> (149)

<400> 4807

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ccgttacgga tacgggtcag catatccgcg atcggatctt gcatgctcat ctgtctttac 60
tcccgatgatt caattggtaa ttaccagcta gcctttttca agcctggtac ttcaccgcgc 120
atggcggtct caccagttt gatacggtn gtcaccaggcg gcggaaagga caagcgtaag 180
ggg 183

```

<210> 4808

<211> 321

<212> DNA

<213> Enterobacter cloacae

<400> 4808

```

aactcgttga agcagggtga atattccaga tacagcattt ccgcttctcc acaccgcagc 60
tggcaggcga agaaagagt gctaagtcag cagctggtga ccagcatgtg ttttaagtgt 120
aatgcccga aggcacaata caccgcggcc gcagttgtac agacaggcta tagtgatctc 180

```

ctttgcctgc	tcaatacggg	tcttaacttg	agttttaaacc	tggccgcaat	ttttaggtat	240
ggccatctgg	ttttgaattc	attgatagct	acttcatata	atgtagaaat	acactgcggg	300
tattataatt	actattatta	g				321

<210> 4809

<211> 186

<212> DNA

<213> Enterobacter cloacae

<400> 4809

ctggcgtttg	aagtgtatac	cttcaagcca	ggggccactg	cggagagott	ttatttgtcg	60
ctcgctcagg	cccgttaagt	cagtcagttc	tgccctcaaca	acccattctc	tattaaatat	120
gatttgcgcc	atgatgactc	catgaogccg	ccacgatacc	gcggcgggcag	aaagtttgtt	180
gattaa						186

<210> 4810

<211> 747

<212> DNA

<213> Enterobacter cloacae

<400> 4810

cgaaaacaaa	cttcattaaa	tcacaacacc	cacggcaacc	ccgtctgggt	aatccattta	60
aatggtaaa	agggtattat	gtctgttgaa	ttaaaaacat	ttggcggtgc	ttatttcccg	120
aaagataagg	cgttgaaaaa	acttcctgat	cttaagccac	tggcaattgc	tggttaacgcg	180
ttaaataaaa	gcattgctga	agctgttatt	tttggcaagc	tggcagccga	gcatacctgaa	240
cacattgacg	attattttta	agttaaaatt	tgggagcacc	gcgaagacct	gccgtgcctt	300
gccctcgatg	atttcagcca	ggacttcttc	agcacggctg	ccacctggaa	tgtgaacgct	360
ggggagcccg	tcgcccgcac	acagcctgag	gtcgacgaga	gccaggacca	gagcgacgac	420
cagcaagccg	gagagatgaa	gtctgtgctg	ctacttgatc	agcattcccg	cgctgcatgt	480
ctggcgcttt	tcggaccggt	tgagcatatc	accgcggcgc	agtatgggca	ggctgctgat	540
ctgattaaacg	atgatgacgg	atgcttccag	cgcgaaatgg	cggaggcatt	cacgagagag	600
ccgcgcgtgt	tggcgctcag	cgcgaaacgc	caaaaagaat	gctggcggtg	atccgtaaaa	660
ccatgctggt	ttogactcaa	tggccagaga	ttaaaaagca	gctcaccaaa	tggctggata	720
ctcctccagc	gaagcgtgag	ccggtag				747

<210> 4811

<211> 240

<212> DNA

<213> Enterobacter cloacae

<400> 4811

cttgatcaat	caggatggta	tctgatgaaa	ctgggtgatg	aaacggcgcg	ggttgtcagg	60
gcactgcagc	ttcggggctg	ggctgggtgcg	cgggatattg	cgtgtcgggc	cggtatgagg	120
aatgaagaag	tgatgcagc	cctgctggat	ctggagaagc	gaaaaaagg	cgaccagtcc	180
aacggtttct	ggtggcttgc	agtcgacctt	gaggaaaagt	caggagagaaa	tcgtaaatga	240

<210> 4812

<211> 243

<212> DNA

<213> Enterobacter cloacae

<400> 4812

cttagccact	ctttcttcgc	ctgccagctc	gggtgtggag	aagcggaaat	gctgtatctg	60
gaatattcga	cctgcttcaa	cgagttctat	gttgagcagc	tacagctgtt	taacgagcgg	120
ttgggggttta	cccttaacgt	ctctctcaga	gatgggtgca	ccatatttag	ggtttacccc	180
caactcgacc	aacctatttt	agctcaaaat	gttaaaaaatc	cgcacttata	tggcacattg	240
tga						243

<210> 4813

<211> 663

<212> DNA

<213> *Enterobacter cloacae*

<400> 4813

acagaaataa	cattctcgtc	acctaacata	ctcgctacaa	acaaaatggt	ggtgttaatg	60
attgtactaa	agagcttttt	attcttcgtt	ggcgcggcgg	cgccttgccg	acttattgta	120
ctgtgtcttt	gggttgatat	gcggtttgtc	ggccatgata	ttccggaatt	atcaactgacc	180
gaaattatgc	aggaaacggt	attagcgagt	attgtctttc	tccatttttcg	tctggcgaaa	240
atgtacgatt	ccatgcgtta	ctgtaaatatt	ctgggtggcg	gatttttccct	gacaatgcta	300
attcgtgagc	tggacgcgct	ttttgatctc	atttctcatg	ggagttgggt	gtgggttcgcg	360
ctgattaccg	ctgtgctggc	gttaattcgc	cccgttatgc	attttcgtgc	taccctggaa	420
cagctggcaa	aatataccca	atccccctgg	tacggtattc	tgttgagcgg	cctgctggct	480
gtactggtct	tctccgcct	ctttggaatg	caggtgctgt	ggcacgccat	cctggagcat	540
ggctatatgc	gtgtcgtgaa	aaacgccgtg	gaggaagggt	cggaatcggt	cggttatatg	600
ctgtgcctgg	ccgcacccct	tggttattac	gttacctttc	cgcgtcacgc	acgacaaaaa	660
taa						663

<210> 4814

<211> 249

<212> DNA

<213> *Enterobacter cloacae*

<400> 4814

aatcagcgtc	tatccttaga	ctatcaacaa	aaggaggctg	gaatgtctga	tttcgacact	60
gataaaaatg	cacaatacgc	tggcgataaa	gccaaaaaca	aacttgatga	attatccggc	120
tctgcgcagc	agcagtttgg	tgaattcggt	gactccocta	aacaccaggt	gaaaggtgca	180
gcgaaaaact	atgctgtctt	cacctacgag	gctgacaggt	ccgcgctcag	gtgtgcgggg	240
caggggggga						249

<210> 4815

<211> 249

<212> DNA

<213> *Enterobacter cloacae*

<400> 4815

atctgccgtc	acagacttcg	aaggttcgaa	tccttccccc	accaccactt	tctggcagcg	60
tcaacgccgc	cggagctggt	tggaaaaatt	gaaccagctcg	aacagaaaag	agagaaatct	120
ctttttttgt	tacagaaaga	actgggtagc	cgagtttcag	gatgcgggca	tcgtataatg	180
gctattacct	cagccttcca	agctgatgat	gcgggttcga	ttcccgcctgc	ccgctccaat	240
acgtgctga						249

<210> 4816

<211> 195

<212> DNA

<213> *Enterobacter cloacae*

<400> 4816

gtcccgaac	gagcgcaacc	cttatccctt	gttgccagcg	gtcaggcccg	gaactcaaag	60
gagactgcca	gtgataaact	ggaggaagg	ggggatgacg	tcaagtcatc	atggccctta	120
cgagttaggc	tacacacgtg	ctacaatggc	gcatacaaag	agaagcgacc	tcgcgagagc	180
aagcggacct	cataa					195

<210> 4817

<211> 363

<212> DNA

<213> *Enterobacter cloacae*

<400> 4817

gtcgtgacc	cattatacaa	aaggtaacga	gtcacaccac	gaaggtgctc	ccactgcttg	60
tacgtacacg	gtttcagggt	ctttttcact	ccctcgcgcg	gggttctttt	cgcttttccc	120
tcacggtact	ggttcactat	cggtcagtc	ggagtattta	gccttgagg	atggcccccc	180
catattcaga	caggatacca	cgtgtccgcg	cctactcttc	gagttcacag	catgtgcatt	240

ttcgtgtacg	ggactatcac	cctgtaccgt	cggactttcc	agaccgttcc	actaacacac	300
aagctgattc	agactccggg	ctgctccccg	ttcgtctgcc	gctactgggg	gaatctcggt	360
tga						363

<210> 4818

<211> 195

<212> DNA

<213> Enterobacter cloacae

<400> 4818

gcagcgcggt	accttcacgc	cccgtgggct	gaagaccccc	tgaaccagcc	ttacaccaca	60
gatattatgg	gtacagcgac	cgcgccagat	cccgagacgc	tgacgctgga	tgttttattat	120
tataaaaacga	acgccgctgc	cgccaccgtg	ggcgagttaa	gctccaacgt	aacgtatacc	180
atttcctacc	tgtaa					195

<210> 4819

<211> 432

<212> DNA

<213> Enterobacter cloacae

<220>

<221> unsure

<222> (417)

<400> 4819

tgccgtactg	gaaaaagcgc	tcaaacttct	ggagtcataa	tggaagactt	agaaaccacg	60
atcatggaac	tgctgggtcaa	cgcaggcgcg	gcgcgcagcg	cggctcagac	ggcgaagcag	120
aaggcgcgaa	aaggcgacaa	agacgaagcc	gagaaaagcga	aggaagagtc	gcgagaaaaa	180
gagaaacaag	ttcctgacaa	acgatccaga	cgcagcaaat	cgggtcaagac	gaagggacag	240
gaaaacagcc	ggaaaaccag	atcacccgac	attctcagga	ccaccagaag	aacgcgaagg	300
aaaaacagga	tcaggcgggc	gacaagaaag	agcaaatcgc	acgcattccc	caggaaaact	360
gaaaatgcag	atataaaaaa	acccgcgcgag	gcgggttttt	acatttacgc	gcacacacag	420
aaaagatcct	aa					432

<210> 4820

<211> 225

<212> DNA

<213> Enterobacter cloacae

<400> 4820

gagagtgcag	tggaaaaaga	gcagctcggt	gagatcgcca	atacggagat	gccgttcggt	60
aaatataagg	gtcgcaggct	gattgattta	ccggaagagt	atctgctgtg	gtttgcccggt	120
aaggatgagt	tccccgcggg	gcgtctgggc	gagctgatgg	ctatcacggt	actgatcaaa	180
acagaggggc	tgaccacagct	ggttcagccc	ctgaaacgct	cttaa		225

<210> 4821

<211> 432

<212> DNA

<213> Enterobacter cloacae

<400> 4821

cacatcccca	ttgcagccag	accgcttggt	ttactcaagc	tcacgccttc	tttgccgata	60
cctctatattt	atggcgaaaa	ggatctcaat	atgacaactc	ttaagcccgt	ttctctgtcg	120
gcgatggaaa	tgggcagcgt	agataacagc	tccggcgcaa	acgacattgc	ttctcaaatc	180
accggtctga	ccaaacagat	aacgaaagtc	actcagcagc	tcaaagaagt	ggccatgggt	240
gatgccacag	cagaagaaaa	gcaaaagcag	caagaattac	tcgaatctca	gctggctatg	300
ttgcaggcac	agctggcgca	attgcagcgt	cagcaggccg	aagaggcgat	gccaaagcag	360
gaaaaagggtg	aggcagtcgc	ggaaggcatc	aataagccct	ccgcagaaca	tcagattaat	420
atctacgtct	ga					432

<210> 4822

<211> 210
 <212> DNA
 <213> *Enterobacter cloacae*

<220>
 <221> unsure
 <222> (106)

<400> 4822
 tggaaaatct ctcccagcca tggaaatttg cgcggcgagc tgatcagaaa taattattac 60
 ccacaggcag cgcgtcaggg gggggaatat ttggctcaca ccttntcca caccagcgat 120
 ttttatctgc atccgcacga gaaaaaagcg cagggtggcaa aattcatcaa ccgatttgct 180
 tttcaccgac gcctttggcg cgcgcggcga 201

<210> 4823
 <211> 201
 <212> DNA
 <213> *Enterobacter cloacae*

<400> 4823
 tatatgattg ttccatctgg tatatcatta cttaccgcta tcgatgatat attaagcggc 60
 atactcacat tactggcgtg tttaaatacg gacgcactgt caagtgaaca cgtttcggcc 120
 attgctgcgt ttgagaaaat aagcagacaa aaaaatgtag caacgctaatt ccatacctgaa 180
 attttcatct cgccctctta a 201

<210> 4824
 <211> 315
 <212> DNA
 <213> *Enterobacter cloacae*

<400> 4824
 cgtcccgtta tgcgaaaaat accaggcacc gatattcagc ccgcgcgttca gcgcgcgcgta 60
 gaggttggtta tattccccgc tgotattttc gctgcgataa ccattcacgt tataccccag 120
 catcagcgcg gggatccccg catcccagag caccgggttt acgctgccgc gtgcgacatg 180
 ctgcaacatg gcctggggga tactgacatc aaggcgctgt ctgcccccg taaatttcag 240
 cgggctttct ggcaggacgg cctggagatc gcaccactgc ccggcattag tggcgcacag 300
 cctgcttttt tttaa 315

<210> 4825
 <211> 438
 <212> DNA
 <213> *Enterobacter cloacae*

<400> 4825
 cagcgttacg attcctctct cggcaaggta tattcagacg gaagacagcg tgacggcggg 60
 catggcgaac ggcaagctag tttatacaat aagttattat taaagagtga tattttgata 120
 gcggtagcat atgtgatgag atttttatto agtttctgct tggggctcct cgtattatta 180
 aatacgacag tatgttttgc aacctgctct gcaacctatc tttataacc ggtcccaaag 240
 gtgccccctt taaccaatag tatttcactg ggaaaggatg cacctgttgg aaccgtgctg 300
 tacggcgaga ccattacgcc gtcaggaact tatgatatga agtgtgacag taacacggac 360
 gttacgtttt tgtacattat tgccgatcct gtaggtcttc attacgaagt tgccaagatc 420
 gccgcatata tcccccca 438

<210> 4826
 <211> 249
 <212> DNA
 <213> *Enterobacter cloacae*

<400> 4826
 atggcattag gtggaatgac acacagttca gctttgttaa gagcgagaat ggtccaagac 60
 atctatgaca ttgggcatca gaaggactat gtgcttgata tgagatcaaa aaaatatcag 120

aagcatcaca	actccaatgg	cattcaaaga	aatgcctttg	ttttgttagt	acaccaaaca	180
acccaaaatt	catgcagtta	tatcaaagac	tcattcgcaa	aaggactcag	ccagaaagca	240
tttgcttaa						249

<210> 4827

<211> 450

<212> DNA

<213> Enterobacter cloacae

<400> 4827

acgttaaaaa	aaggggggtt	atgcgaacgg	aaggatcgga	ataaaaaagt	attattcatt	60
cgcgtttacg	tgaactcaaa	tctacacgga	gtaattatgg	aactttcttt	aaatattggc	120
cttagtgaaa	agaaatctaa	cacggctgca	ctttttaaaa	caaaaagcgc	aaaagtgatt	180
ttgtttgttc	tgctgaccgt	gcttttttgc	gggtctggcat	atgcgggttc	agatgatggg	240
gcactgggag	atattttggtc	atacatgagt	gaaagtatga	ctggagctcc	gggcaaaatt	300
ctggcagccg	cgatgttgat	ctcaagcgta	tattttctctg	tccttaagcc	taaccggggc	360
ctggcactgg	tttcattatt	catgatgctg	gtaatggcca	acggcgagaa	aattatcagc	420
acctttatgg	atgctggcgt	accgctgtaa				450

<210> 4828

<211> 363

<212> DNA

<213> Enterobacter cloacae

<400> 4828

ttcgtaaagc	aatgcgggaa	cttgaatcta	tcggatatct	cgattatcaa	gaagttaaga	60
aaggtcgcga	catacaattt	cagatcttca	aaagaagccc	taagctggcc	cttgccaaac	120
aaggttgaaa	gctatctggt	atgcactggg	tataacctgc	tgaaaaataa	gttattttatc	180
agtgcctatgc	ttagtgcttc	ttttactact	ggctcttacat	ctcggtctaa	tgtgcaaaaa	240
agtaactttt	caaacgaact	cctgactatt	catctgtatg	cctttctgac	tcaagcgtac	300
atgctagccc	attcattaaa	tgcggttgag	caagatgggt	tcgtgcgcac	tctattcacg	360
tga						363

<210> 4829

<211> 357

<212> DNA

<213> Enterobacter cloacae

<220>

<221> unsure

<222> (202)

<400> 4829

tcatgcatga	gggggttcat	ccccctctct	ggatttttta	tgagtaagca	gaacgacgtt	60
cctcagcata	cctatagatt	ccctttcagg	atcaacatgc	ctctactgat	tttgttttgg	120
gatgccaaaa	aattaggggt	tgcatttcatt	ctgggttgc	ttgggaatat	cttcgaatgc	180
ttcgggtttt	ctgttgtagc	ancggttggt	tattggattg	cgtataacaa	agcagctgag	240
tcaggaataa	gaggattgct	aaaacacaaa	ctctgggtgc	tcgggttttt	gccaagtaaa	300
gcagttttta	gtagccgtta	tttcaacgat	ccatttatca	gagatttgta	ttcttgta	357

<210> 4830

<211> 537

<212> DNA

<213> Enterobacter cloacae

<400> 4830

gtttaccttt	tagatgtatc	agccctatct	ggcaaatttg	aggttcattg	atcatgtagt	60
aaacaggagg	aagatatgaa	caacagcaaa	catacagtca	ttgaagtggg	tactaatcta	120
gttgaaattg	aaaagggatt	taatccccga	gaggcggtaa	tcggagattt	gtgttacgaa	180
caagaacctg	tcaaatcgat	gattgtgtca	atcaaacaag	cctttaagga	aggaaggcag	240
gttgatatga	tcaaggtcgt	aaaaagaaaa	ggtaaatatt	tagttcgtca	aggtcactact	300

cgtttttc	catg	gcttaaaatt	agcaattttct	gaaggtgcta	atattccaaa	attatctggt	360
atctta	atcg	attataaaaa	cgaaattgaa	gaataccttg	agaacctcga	tggtaacaga	420
agcaat	gggc	taaattccgg	tgggcaagct	catgcattag	ctcatgctgt	tagtctcggg	480
tattcg	gttg	aagaactagg	gaaggtgcga	ataagtgagg	aaattcttct	cggctga	537

<210> 4831

<211> 198

<212> DNA

<213> Enterobacter cloacae

<400> 4831

cttaactcgt	cgggtgataag	atttttcattt	ggcaaaactgt	ttataacata	ttcttgcaaa	60
tgctttttac	gcattttacct	aaatgccata	agcattccag	taaagtcctt	ccttattcat	120
tcaaagtcct	ttcgcatgca	tccgaatgcc	ggatccctttc	ataaagttac	tataatcaat	180
gagttaaaga	tgcccgta					198

<210> 4832

<211> 216

<212> DNA

<213> Enterobacter cloacae

<400> 4832

catgtaagtg	aaagccctgc	gaaatgtaag	agatttgccc	ttaagcgtat	gagaaattta	60
agagaaatcg	caggggctaa	aaaactcaag	atatttaaaat	tcaaagagtt	attaatgagt	120
aattatctga	aaatccgggt	ttgtaccttt	tcgttgcttg	ttagttttaa	ggaacaaggt	180
aaagtgtgtg	ctacggcgag	gatgccaca	gaataa			216

<210> 4833

<211> 942

<212> DNA

<213> Enterobacter cloacae

<400> 4833

ataagaggga	gttatatggt	ttacgaaaat	gaattgtggc	acagttttct	tctgcgttca	60
cagataatgt	ataactttatc	caattgcagg	aacataatat	caaagcatgg	cgcactaagg	120
tacgatgcct	ttcctcggtt	cgaactgatt	gatatgtaca	aattgcatag	cttgccaggat	180
atatatgaca	ttcttgccac	tagaaatggg	tatatactaa	cttccaatat	agtgtcgtta	240
tcttctggtg	tttaacggga	ttttaacgct	attgaagatg	cctgtcggaa	aaattttcac	300
ataactaatt	cataatccatt	ggtaaacatc	tcaaacattc	gttactgtca	caaagtattt	360
gttgaagata	tacactctaa	aggcattggg	tatctgcgtc	atagatgggt	gtttgaatct	420
aaatgtgcag	ttcatagtac	cagttttatat	gaggtttggt	ttgataacta	tttgaatgca	480
gtgaaaggac	ttagtgaact	aattataagt	ggaataaaatc	ctcatgggta	ttgttccctt	540
gtggttgacg	tttcaaaccc	tttcaaaaat	ccagtgtata	tattaccatg	tgacagtaat	600
aaaattttta	aatggatttc	ggacaataaa	aatatgctga	tttactttct	ctttgatctc	660
ttcaaatgta	agtcgcattc	aagttttatct	aagggttatcg	aagtcaagat	aatgcatgat	720
agatatattt	ctgcgggtgtt	caagatgtta	agtgaagtta	atttttgtaa	tttcaactca	780
tttatttctg	atatttttga	ggacgtaagc	tatgcctcta	tcggacttga	tgattattct	840
gttaatgtgc	attttctcag	gctaagggct	gcagattgta	aattttgcca	gttgaatggg	900
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<210> 4834

<211> 1671

<212> DNA

<213> Enterobacter cloacae

<400> 4834

atgaatgctg	acaagaatga	catgaactgt	ttcagccctaa	gagaagggga	cggccggtttt	60
gaaatagcct	gtgaatttga	tgacctgccc	gatttttatca	tgatcgacga	caggggtgcag	120
accacgctcg	cctcagaaca	tctgctgaat	gaggacggca	attttgaaat	cgtcaaaaacg	180
tttaaagcaa	cgacctcagg	aaaaccggag	cagacctgca	tccgctgcat	ccacccggat	240
gaggagcccc	tgagaaattt	actgggcatg	aaaatttctg	agctcaaggc	ggtgggaaaa	300

gaagttgaaa	aaaatgtggc	ggataaacgc	actgcatcgt	tatggcgtea	ggccatcagg	360
gaagccgcag	ccccctatac	ctgttcggaa	attatgctgg	atgtcgataa	agagttcgga	420
accgacacaa	aatcattatg	gggtaagatc	ctcgatttgc	tgcccacgta	tgcgattttc	480
aaagccgaca	gggaaagcag	cgacggggat	tccgaagcta	aaaaccctt	acagcaggcc	540
gtaaaagacg	ctcaggctgc	gctgcaggac	aaaattacag	cgctggaaaa	tgagattcag	600
gacagcgctc	tggatgtcgc	acagagaacg	ctggataaat	tacgtgaaat	ggcccccgaa	660
ctcgccagtg	aactgactcc	acgatttaag	gagaaaccca	agtggacctt	caatttcacc	720
ctggacgggg	aaaatggcat	ccccatcaat	aagcgcggca	gcgggataag	gaggcttatt	780
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atztatgcc	tagaggagcc	tgaaacgtca	cagcatccga	actatcagat	gatgctgatg	900
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ccggcgctgg	ccgattaat	ccctgtcgaa	ggcgtaagtt	atgttaccgc	aaatgaggcg	1020
ggtgaaccgg	tagtaaaaat	gcccgatgac	gcagtgtcga	aggaagccac	tgaaagcctg	1080
gggtgctgc	cagagaccgg	tatggaaaag	gcgcagggga	ttgttctggt	agagggaag	1140
tcggatgtta	ctttcctgag	gcatgcggcc	agttcattaa	aacagtcagg	tgcgtgcc	1200
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cactgggtta	cattgaatct	ggccaaagat	ctggggcttc	cctggtgcgt	atttctggac	1320
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aaaaaaataa	tcggccgggg	tgtgggaatg	aaaccgcgata	atgtactaga	taaattctgg	1560
cctcagatga	catcagaaag	aatcatctca	agatcaacct	atcatgacgg	aacgcaggag	1620
agaagcgagc	tggttgagat	cctgagcgac	attgtatcca	tgacgagata	a	1671

<210> 4835

<211> 549

<212> DNA

<213> Enterobacter cloacae

<400> 4835

cagattattg	atcgcccttc	tgaacatttg	tggatctccc	tcaaccaggc	agggcattccc	60
gttaaaattg	agcgtgatat	tgcgttcttc	ggcccaggct	tcgaaaaact	cgaagacttt	120
catgacttcc	gctctgagg	caaacatgac	cctgtcagg	atcagctgat	tattatctgc	180
ctgtgccagg	aacagcatat	cgctgacat	tttggtcatc	cggttatact	cttcaagact	240
ggaatagagg	acatccctca	gttccctctg	tgttcgatcc	tgactcagtg	cgatatcagt	300
ctgcgtcacc	agattggtga	tgggcgttct	gatctcatgc	gcgatatcgg	cagagaaatt	360
ggcctggcgg	gtaaagacat	cctcaatctt	tccaatcata	tgattgaacg	agataaccag	420
ttgctccagg	tcaatgggaa	cgcgtgtccg	ttccagtcgc	gcacaaagat	tctcggagg	480
gatgtcttaa	atggcatagt	tgacattacc	aaggggcagg	tgcccttga	cggacagcga	540
ttcgaatga						549

<210> 4836

<211> 183

<212> DNA

<213> Enterobacter cloacae

<400> 4836

acgcagaaga	aaactgtgcc	acaattcatt	ttcgtaaacc	atataactcc	ctcttattta	60
attagttcca	ttttcttgag	aagtatcatt	gtcattggta	gtttatctct	gtatttcaaa	120
agccagccat	gcccctccag	taaagcatct	agacttgtaa	gtgacatcga	gtactgcccc	180
tga						183

<210> 4837

<211> 336

<212> DNA

<213> Enterobacter cloacae

<400> 4837

ttcccggcag	tgatgttaac	tcactatgga	gatcgccaat	ggttgcgctc	tgtactggac	60
aaggtaaaca	catcaaccgc	agtaccgggc	gcggaggctc	agactccggc	agcgattttc	120
tcaccaccaa	attctctcct	tcacctcaac	aacctttttc	taccgacgtg	cataacggtg	180

cgcgtagccg	ttgtatatcg	tcatccggta	atgcaagcaa	tggcttaca	ggaagccaac	240
cctctgatgt	tcgtgcgcac	aatcgtgccg	atgctggcgc	gtgtgatgaa	taccaacaac	300
tcaagggtgct	atccatggga	agacagaaag	cagtga			336

<210> 4838

<211> 228

<212> DNA

<213> Enterobacter cloacae

<400> 4838

gttaacatca	ctgcgggaa	ctaccgctgt	cttctcttaa	gtacatcagg	aattatcata	60
aatgcaacat	ttatctttacc	tgaatgcaac	ttttcggact	gcccctacat	ggaaaatcag	120
tcttatatag	aaatattaca	gaaatataac	aataagatag	tctggaaaaa	aaataatgtc	180
cccgcgaact	gtcgcgggga	cgattatcag	gcttctatga	gacctga		228

<210> 4839

<211> 786

<212> DNA

<213> Enterobacter cloacae

<400> 4839

gtagttatat	tgcgacaatt	ttgtcccgct	gctacagcat	ttttcgcgaat	aaggcaaagc	60
attatgcaaaa	ggaaactatc	tattaaaact	cagctattaa	taaaaagaat	tgaactattc	120
gcagggaaca	tagataagaa	taaaatttagc	atctctccat	tcaaagggtc	tgacctaaaa	180
atcttttgagc	catccataat	aaacacaggc	tctggctcag	ctctcaatat	caatataaaa	240
tgggattacc	catacgaact	taaaatgagg	cagcttaatg	aatgttataa	atccatcaac	300
aaagaagcta	aacttgaaca	tgaataaact	gataaattag	gtgtaagatg	cttagagata	360
aacactggcg	aaatagtatt	atatcccttg	actaatacag	atctgattga	ttttatggca	420
ccgattaatg	ttgaaaaaaa	agaatacaaa	accagagccc	ccttctctat	tttcaatatt	480
atgattaatg	atgctatgac	attattacac	attgaaaata	aattaacaaa	agccgttgaa	540
ggtccatcat	tgaacatata	ctatactgat	gtagaaggta	aaaaatactc	cttgcaatat	600
aaaagtattt	ttatagttaa	agaaattacc	gcattattat	atacaaaactc	catatctgga	660
atattgttct	togaagggac	aaaaatgccc	ctcgctaaca	gagtcaatca	tttatataaa	720
aaacaaaaag	gtattttcat	taacttcgta	agaaataaac	tccaaaacat	taaattgcgc	780
agttaa						786

<210> 4840

<211> 666

<212> DNA

<213> Enterobacter cloacae

<400> 4840

aggatgacta	ctttgaaaat	caaatactta	tatggcaaag	ccctccacct	caaccaagtg	60
atcgatggca	agactgggat	tgccttaagt	gatctttctc	actattcaag	attagaaaat	120
gaaaaaatga	gggatgatga	gatgtctaaa	gtctttatag	ccaaaagaga	agaaataata	180
atggagggtta	atggcattag	gataaacact	tctgatttaa	ccaacgatcc	aataattaga	240
attacaccta	ggcattgtta	ctgttttatgt	ttaagtagca	agggggatga	tgattatctt	300
tattcaaaact	ttcaagcgga	tacttgtatt	gcttttgatg	ttgataaatt	agaagaacgg	360
ctttctattg	catctcaaaa	atttcagggt	tcgtttgtgg	ttggggatga	tatcatttac	420
tacaatcaaa	caagcttgca	cggtttggtg	caaacgccag	aaaaacttgt	cttctataag	480
cccgattttct	tttcacatga	acatgaatat	agaattgcat	ggttctaccc	tcttgataaa	540
gatgggtttcc	gtgcgggtga	taaaaatatt	ccttttacat	ttaaaaatga	atcgtcacat	600
ctttttttct	ttcataaaga	gcgatcattt	attaccgatt	gcataataaa	tgtattcagg	660
aaatag						666

<210> 4841

<211> 318

<212> DNA

<213> Enterobacter cloacae

<220>

<221>unsure

<222>(278)

<400> 4841

cgagtggaaa	gaccgatgat	ccgctgcacg	tttcatctca	acaatagcca	gctttcaacg	60
ctgagctgcc	ccggtgttgg	gttctttccc	gcctactcag	gaaacgccgg	tgagaaccgc	120
aacaatccgg	acaagatagc	ggtagcagga	ataggaccac	tgccaccggg	caagtattat	180
attgtgatgc	gtcccgaag	tagtgctgct	catttcacca	aaagctttac	atcatcaatt	240
ttatccggct	caaatcattt	caagtcgttc	ggatogtntt	tcaccacgag	gcctagaacg	300
accataagtc	ccccatcc					318

<210> 4842

<211> 240

<212> DNA

<213> Enterobacter cloacae

<400> 4842

gagagcactt	cattgattca	gaactactat	ccagatattg	cagatgaaat	caggaggata	60
gcagataata	ttccccggcg	ttctcgggca	gcattacgtg	aaaagttaaa	ggatgcaaat	120
gccccaaaaca	aagttttaca	ggatgagatc	caacaacttc	agcttcgaat	atcaaaacag	180
gcaaccatca	atgaaatgct	gaattacaat	ctaaaaaata	aaccttctcg	aaataaataa	240

<210> 4843

<211> 1188

<212> DNA

<213> Enterobacter cloacae

<220>

<221>unsure

<222>(140)

<400> 4843

agccaattgg	cgcatttttt	ggccaagaag	ggttgcccaa	gggaaatttt	cttccctcat	60
ctctgtcatc	agggaccaat	tattccgaac	aaaaatttgg	acaagtatga	aaaatgcact	120
cattcttata	aaaagtccgn	tataccgaac	ttggtggccg	acgaaaatga	acatgacatg	180
togtccggct	tggatagagt	gaagacttct	agtgaggatg	agatgtcaac	agaacatgtc	240
gaccataaaa	ctatagcgcg	atttgccgaa	gataaggtaa	atcttccaaa	agtaaaggct	300
gatgaattca	gggaacaggc	caagcgatta	cagaacaaac	tggaagggtg	tctttctgat	360
catccagact	tttcattaaa	gcgaatgatt	ccatcaggta	gtctggctaa	aggaactgct	420
cttcgttcgt	taaacgatat	cgatgtggct	gtgtatatca	gtggatctga	tgaccacag	480
gatttacgtg	agttacttga	ctatcttgct	gatagattgc	gtaaagcatt	tcccaacttt	540
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ttagatgtcg	atattgtccc	tgtattgtat	tcggggttac	ctgactggcg	aggtcatttg	660
ataagccagg	aagatggctc	actccttgaa	accagcattc	ctctgcacct	tgatttcatc	720
aaggcccgta	agcgtgctgc	cccgaagcat	tttgctcagg	ttgttcgttt	agctaaatat	780
tgggctcggt	tgatgaagca	agagcgaccg	aattttcgct	ttaaatcttt	catgattgaa	840
ttgattcttg	caaaattact	tgataatggc	gtggattttt	cgaattatcc	ggaagcttta	900
cagacatttt	ttacctatct	ggtgagcact	gaattacgtg	aacgtattgt	cttcgaggat	960
aattatcctg	cgtaaaaaat	aggcaagttg	tcagacttag	tgcaaaattat	cgatcccgtt	1020
aatcctgtta	ataatgttgc	tcgtttatat	acgcagtcta	atgtggacgc	cattattgac	1080
gctgcaatgg	atgccggtga	cgctatcgat	gctgcattct	atgcaccaac	caagcaatta	1140
accataacct	attggcagaa	agttttcggt	tcttcattcc	aggggtga		1188

<210> 4844

<211> 567

<212> DNA

<213> Enterobacter cloacae

<400> 4844

cctattggca	gaaagttttc	ggttcttcat	tccaggggtg	aaatcattat	gtcttcttat	60
agttatacgg	tagcagagac	acaaactttc	agcgtaaccc	acgctcgtca	catggccgct	120

aaagttgcaa	ctgacttgcg	gcggatgcag	cgtttttatg	gttaccocag	tgatgccgac	180
attgaagcat	acgaagaaga	attggttggt	attcttaagg	ctggatattt	gggtgaggtc	240
tcttatgggt	ttcagaaaaa	taataactgg	atcgagccga	cccttcgata	taccgcaggc	300
gacttgcttg	gttcaggaac	agatgacgat	cccggaaaaa	tccgccaaag	aaaagatgta	360
tcgggtgcat	ccttctacag	ttttatgact	tatagctcga	aatatctgaa	tgctactcaa	420
tcggaaaaag	atactgcttt	gaaagatcta	ccattcaaac	gggtagggtgc	ccagtctcca	480
gggattaatg	gctacctoga	aaatgataag	acttactcgg	ccggtgggtcg	ctccctcact	540
cgactagcg	taaggaaattt	tgtatga				567

<210> 4845

<211> 597

<212> DNA

<213> Enterobacter cloacae

<400> 4845

atcaatgaag	tgctctctta	ttcctcgcca	agtggtagtt	ctaacggata	tagcagcggc	60
ggtggaggca	gctccagtag	caccagacca	cgttgggtcac	gggcgggata	atctgtgatt	120
tatacccttg	cggaagtgcg	cactcacacg	ccagcccgtg	aaaacgttga	gaggcgggcc	180
tctgtccctg	atttacgaga	tgttttctg	tgccatgcct	gggacgatcg	caaggacgca	240
gccaaaagac	ttcatgacca	gcttgagatg	aacgggggtct	cagtctgggt	tagcgaaaaa	300
gatgttttac	ttgggtgcaac	attgctgcgc	gaaatcgatg	aaggattggc	aaaatcacgc	360
gtagggtattg	ttctggtgac	ccctgcgcta	ctaaaacggc	tcgcaggaga	agggattgcg	420
gataaaagac	tatcgccctt	tctggcacga	gaccttcttg	tcctatcgt	tcataacaca	480
acatatgaag	atcttcgcga	agtcagtcgc	ttacttgggt	cgcgacgcgg	tttgagcaca	540
gctgaagatt	caatggccaa	tattgccagc	aaactagcgg	agctggtaac	aatctag	597

<210> 4846

<211> 216

<212> DNA

<213> Enterobacter cloacae

<400> 4846

aaattttatta	agatttttga	tatcgagatt	ttgacgcaaa	gtaacttttc	cggttttctt	60
gaaaagcatt	tccgacagag	ttgtgttttg	cttcatttgt	ttctcagcaa	cagcaatagg	120
gatttggcct	acaaccttcc	tgccatcttg	aagcctggca	actatgtgaa	acatagggac	180
ctgacccaag	agatcctttg	gaatactctc	ttctaa			216

<210> 4847

<211> 222

<212> DNA

<213> Enterobacter cloacae

<400> 4847

gaaatagcag	ctgctgtatc	ggggtttgaa	aggccatcaa	gcgaaatgta	tagcaccocg	60
ccagtgtctga	acatcccttc	gcttggttaca	atttctcttg	atgatactga	gttcgggtta	120
ggagataaaa	gctcatttaa	aggtttttca	atgagcatat	cgaaaacagg	cataatacct	180
gcggtcattt	tagccatatg	ctctgggtcg	gacattgagt	aa		222

<210> 4848

<211> 261

<212> DNA

<213> Enterobacter cloacae

<400> 4848

atttctaagg	aagttgcatt	gatggatgaa	aaaattgtcc	tgacgcgcca	gcaaattttta	60
agctctgcac	taaaagtcag	caaatgtcgc	tcgctcgtaa	aaaggcgctt	tcaatctttg	120
ggtttaaaagt	acgcagattc	tcaagaaatt	ccagatcggc	taactatgat	agacaaaaac	180
gcgtttcacc	attttgggaa	aaatttgtcc	gacccaacga	tttcgattcc	ctattcctcc	240
atgggcaaat	acccttgtcc	g				261

<210> 4849

<211> 651
 <212> DNA
 <213> Enterobacter cloacae

<400> 4849
 aaaggtaaac gttatctctg ctctgccgtt gaacagccat cacttttcaa taatgagcaa 60
 tttatgatca cctttttccg cggggcaggt ctgggcacga agctatcgct gctaacaggt 120
 gccagtgtcg ccacgctttt tttgctgttc actttttctgt tgagccacaa cgccagccag 180
 cagcttgaag atcttgccgt tgaagacctg cataaccagt ctaccggcat ggtggatatg 240
 gtagagatgt tcaacaccag cctgagcgaa gaggtcgaga gctatacccg cctgttcacc 300
 acctttttgc cacagccatt gaacagcgac agcagccaga gccggaccat taacggcctt 360
 accgttcctc tgctgaaggg cggtgaaacg gagttgcatg aaaacaatac gctttctgat 420
 gacttcctga gccgaacggg ggccatctcg acgctgtttg tccgcagcgg taacgatttt 480
 atccgcgtg ccaacgtcgt gcgcaaagag aatggcgacc gcgccatcgg aaccgttctt 540
 gataccacca gcccggcatt tgcggctgtc accaaagggg aggtctatcg cggcctcgcg 600
 ccgctcttcg gcaatcgta tcagcagccg caggaaagag tatgccaaa g 651

<210> 4850
 <211> 243
 <212> DNA
 <213> Enterobacter cloacae

<400> 4850
 accgaggccc aatcgccaga ccatgogtca ggogatgtca tttttatatt agtaatttca 60
 cgctattttca aatatcatct tttaaataca attcttatcg gaatagctca tgacggaagc 120
 gcaacggcat caaattttac tggaaactct ggcgcaaaca gggtttatca ccgtcgagaa 180
 agtgatcgaa cgtttaggga tctccccgcg taccgcgcga cgggatatca acaagctgga 240
 tga 243

<210> 4851
 <211> 588
 <212> DNA
 <213> Enterobacter cloacae

<400> 4851
 ggaagtaaac ggagtatgcc aatgaagact cagcgcgtaa tcaaagtagc gacgtttctg 60
 gcgttttgtt taccgggttt gacgcttgcc gaagattgtc agatcacgct ttctcagccc 120
 atagtagatt ataaacagct caagcgtgac gatattgtta cgtctcagca aagctggcat 180
 aaattgcccg aacgggaagt taccgtgaat gtgttttgtc cagacaaaaca gaagctggca 240
 gtgcttttac agggtaatgc tggagagaaa ggtcgcttcc gttttggtca gaatggcggc 300
 gtcgcagtta aaattgatga tatgaatgtt gatggcaaaa gctataccgt gggtaaaacg 360
 gttgatcagc ttaactttac gccggaaagc gggtcgcctt cgccattcta ttttaagaaat 420
 aatgaagccg tcgtcgcggt tgaaaataac caggccgtta cgggccagca gatgacattt 480
 acagctacga tattccctgt gcttaatgaa agtgcatcca gtaataatgc cgatcaaaca 540
 acgctggaaa gcgatttttag ctggaaaata ttgcaaaata atccatag 588

<210> 4852
 <211> 222
 <212> DNA
 <213> Enterobacter cloacae

<220>
 <221> unsure
 <222> (81)

<400> 4852
 attattaaac cgggtattac gcaaggctac ccgcttaaat tattcattgc gtttattatt 60
 gtaaccattc ttctcgagat naaaaaaaac gaaaaatgca gtctcatatt cttatttttc 120
 gatcaattta aaaaatatat aattttctcc aaaaaaaac ggccaggcat aaacctgacc 180
 gttaagatta aaattgagtt agcgttattt tacaacgcgt aa 222

<210> 4853
 <211> 285
 <212> DNA
 <213> Enterobacter cloacae

<400> 4853
 cgctgaccg gcggtattga gggcatcgag aactttaacg gcatgctca ggaactgttc 60
 gccacgagc gtaagctgag ccccagacg gccgcgacg aacaggcggg ttccggtaag 120
 ctgttccagt tctgtcagcg ttttgagag tgcaggctga ctgaggttaa gggtttcagc 180
 cgctcgccc agcgttccct gttgagcgac ggccacaaaa gtatgcaaat ggcgcaagcg 240
 tatgcgctga ctgaacagac cttttttttc cataggcgat gttaa 285

<210> 4854
 <211> 204
 <212> DNA
 <213> Enterobacter cloacae

<400> 4854
 agacagaatg cctcgctggg ggaagaagct tctgcggcag cggttcgct ggaggagcag 60
 ggcgcacgtc tgacggaagc cgttggcgag tttcgtctca acggggcgcg tgcaggacgg 120
 gctccagccg ctgcaaacgc agcgaaaacc tgccttttaa ccccggcggc ggtcgtctca 180
 ggtgataact gggaaacggt ctga 204

<210> 4855
 <211> 267
 <212> DNA
 <213> Enterobacter cloacae

<400> 4855
 tggcgggcat tcgacgcgct ctatgatctc atcgggggtg aaattaaaaa attttttatc 60
 cttccccccct tgatggatgc cgttgtgacc ccatcttgta agcaaccgca gtgtgtggac 120
 ctgaaaaaaaa tcaaatctgg gcagttgaaa aagcacgttc tgcccttatt acaggtacac 180
 aaccacatgt tgactgaatt tttagtggag acgttttagat gggtaaaatt attggtatcg 240
 acctgggtac taccaactct tgtgtag 267

<210> 4856
 <211> 204
 <212> DNA
 <213> Enterobacter cloacae

<400> 4856
 tcagcatcaa aagaagaaga aaaacaatca aagaaaaaag aaggctcatc agacgaaaaa 60
 gagaagaaag ccgaaagaga aaaagaaaaa gaaaaagaca cgcagaaaga aaatcagag 120
 ggagaggaag cagcagatcc agacaatcca gaaaaagaag aaagagaaga agaaacggca 180
 aaggacacgg aatcccaagt ttag 204

<210> 4857
 <211> 282
 <212> DNA
 <213> Enterobacter cloacae

<220>
 <221> unsure
 <222> (253)

<400> 4857
 gtcaaccaac atcatgaact ccaaaaaagc gatccacaaa ccaaagataa aaaagagaga 60
 gaagaagcag tccctaacct ctacaaagaa accataaagg caaagcagcc gggaaaagaa 120
 gaaaaagcaa acagagaaga tcttaaaatc caacagacaa tcagagaagg atctctcgaa 180
 ggaaagagga aagaaaggga caaagacgat cagcgaaaaa tccagatcgg cgataactgt 240
 gtgttttcac acnaggcogt ctggcaagga tacctgtgct ga 282

<210> 4858
 <211> 627
 <212> DNA
 <213> Enterobacter cloacae

<400> 4858
 ctgagtgttg tatctaatacg tgggggacagg tcaggcgggtc taaaagggttt tgggatcatg 60
 agcctcagct ctttgtacag ttctttctgac gccgaatata tccagggtcaa tcaataccta 120
 gtgttcgtcc ccaatccaaa aaaattgcct tacaatgatg aaagtttggg acgtgaggga 180
 gctaagtatg tttttgagca tacaaaagca actcaggcct cattttggata caaccctgaa 240
 aaacagaaaag cagctctggc cacatgtaaa attgatattg cagtcgtcaa taaatggagt 300
 acctgtgacg tggcctctaa gacctgatgt gatgttttcc ctacagattc aatgtacagc 360
 tttcaggcga ttgcgccccg aacagggaacc gaaattcctg agctaaacct tcccgtctgt 420
 gattacgctg taattcggtt tgtgttcac ccatctaaag gaaacgaaac aagcgtctgat 480
 ttttcgggta tcaattttcc ttctgatagc ccaaatacaa caactccagg ggggtgttgca 540
 gcctccatca acggaaaaga ttattacctc tttaccgggtg aatacggtaa aaaaggcttc 600
 ccagaaaaaa cattgaaagc caagtaa 627

<210> 4859
 <211> 450
 <212> DNA
 <213> Enterobacter cloacae

<400> 4859
 tttcagctgg ctaataactgt ggacctgac ggggatattct ctccgtcgga ggggatattcc 60
 cgttatttaa ctgaggatag acccatgcac gcagacgttt gcacacttaa gacacctctg 120
 gacacgctca gctggctttg cctgcttgag agtgaacttc tgagcatcag ggcatttcag 180
 cgtctcgacc ttcatagcga gcgggatgaa ccgaatgaac tgacgtatct ggaagatgcc 240
 atcattaaag ccggcacagc ctatggctgg tttgtctgtt ttctcaggga cggatgatatt 300
 ccaccgttgc cagcgactgc ccgagaaatt ctctgcaccc ttgacagtct cggtaaagaa 360
 attaaaccgtc ctttctggga gaaggctgtg gcccgcgggc aggatgaggc ctgtggcgac 420
 aaagctatcg cagccctaga aatgatgtaa 450

<210> 4860
 <211> 681
 <212> DNA
 <213> Enterobacter cloacae

<400> 4860
 atcccccttt ttttctttgc ggaggattta tcaatgaaag acctgtcttc ttccccggct 60
 tccatgtcgg ttgtttatac cattgagcac gtcagcacgg ttccgttacg tcaactggcat 120
 gctttcgttc tggcgtgtaac agaaacgttc tggcaactgc cgggtgcgtct gcgtccggga 180
 aatatgtatc tgccgtcgct taatcgcgcg gctgacctgt ttccggttgc tgatgtcatg 240
 gcgtttctgt gcgattcagg cggcagtttc tggcgggtca acatgaccat tgagcgcgag 300
 cgcagcaaca atacgctgag tattcaggag ctggattttc agcatcagcc ctgcgatttc 360
 tttgcgcgtg ttgtgatggt cctgctgcac aacctgtgtc cgggcagctt ccggatacat 420
 tcttctgacg aagggcgag ctgggcaata ccgttacgct ggattgagcg tcatattggc 480
 ctgcctgagc agtcgtcact gaccacgct cagccggtac tgcaaacgcc ggtgagttag 540
 ggggcgtttg attccctgct gctgcaactg ctctccgggt gtgagcgggt gctgagcagt 600
 gaggactgga atgccttcgt gctggcgga tttcatctgt acgaactgaa gcgcgtcact 660
 gaaagaactg acgcgcgta a 681

<210> 4861
 <211> 1008
 <212> DNA
 <213> Enterobacter cloacae

<400> 4861
 ctgtcacgct cccgtgagga cacggctcct cacggggctg tgtcctcttt tttttatgaa 60
 agaggagtat tcaactatgt cgaatgggtg cataaccgcc tggaaattac cggtaagccc 120

gtctgtatcg	atgtcatgct	gcagtggata	aacgggactg	acgccccgcg	tcaccgccac	180
gccgtgcagc	agagcataca	gctttttctg	gccggtgcgg	cggggatact	taagccggtg	240
cgcaccacgt	cgtatccgcc	ctttcagggg	ctggtccgtg	caggcacagg	gctttccact	300
gcggctaacc	aggcgtttga	aaactggctg	gcattgttgc	tgacggatgc	cgttcttgat	360
gcggaaacca	tccgggtcat	tgaccggctg	tatcaccagt	caggcctggg	ggcgctgaaa	420
tgggaaaaca	tccccgtctc	atcccgtagc	gttatggcag	aactgattat	cgggcaatac	480
accgactggt	ttggtctggt	cagcgccggc	gatgagtctg	atgcccgggc	tgctgggaa	540
cggctcagcc	agtatcctga	gcgctcgcag	ccctgogaca	tgctggccgt	gataccctcc	600
cggctggctg	cagagctgaa	cgggtgcggg	gggctgatgt	cgggtgtgtc	gaccacaacc	660
agcctctact	gccggcagta	cggcatggag	tgcccgcccg	ggcacaatgt	cagctggcag	720
cggcatacgc	caaacagtct	tacgctgcag	atggatacgc	cctggcttcc	gccgtcaggt	780
gaggttgctg	gggaaatctc	cgcggtgttt	gactgcgagg	tgcgtcacag	ctacagcgag	840
cccgtaagcg	ggctcagcgg	ttacgactgc	tatgacggcg	gtgaacatgt	cgacgggcac	900
aaaggcgctg	ccggcgcaac	tcagcccggt	cagggtcttt	atctggtcag	cgatgagccc	960
gattcaccgg	ctcaggacgc	tacatcatat	cgtgagggtcc	gggggtaa		1008

<210> 4862

<211> 228

<212> DNA

<213> Enterobacter cloacae

<400> 4862

tggttgcaaa	agcaacatat	aagcctgctc	attttcagag	caaattggagc	ttatgtcaac	60
tgtggtatca	aatgggtcac	ccatagtag	ctcagggcag	taaacaacat	gatgctggac	120
atgccagccg	caattgctcg	taaataattat	caggatcgcc	ttatgaggca	gataaaaagg	180
aaaaaggaaa	aagacaggga	aaggctggca	cacaaagaaa	aaatataa		228

<210> 4863

<211> 201

<212> DNA

<213> Enterobacter cloacae

<400> 4863

tttaaaatac	tttcgagacg	aaactaccta	caaagcatga	tcccccgggc	cacacttaag	60
gcgattttcc	tgccctgggg	tagtgcaatt	gacgacaccc	catccccggc	tcgttatccc	120
ttatcccgtg	cggcgcgcaa	tgccatgatt	aaatattgtg	caaatttgat	ttcacctggc	180
gtttatcccg	atttttgtta	a				201

<210> 4864

<211> 1191

<212> DNA

<213> Enterobacter cloacae

<400> 4864

catgccttcg	ttcacgtgca	gcagctcaaa	cgttcccggc	ggatgtcccg	gagaggtgaa	60
cgtttctccc	ggatgcatct	cccactgcca	cagctcaatc	atatccgggc	ctgcggtgcc	120
tgccagcaat	ctggcgtaac	cgcctgtgtc	gccctgccac	agaaccggga	tcgcctcttc	180
ccgaataatg	tgtatctgcg	gctcgctgga	gacgttaacg	atatctgcca	ccgagacgcc	240
aagcgcgggc	gccagtttac	acagaatggc	aatgctgggg	ttggcagccc	ctttttcgat	300
ctctaccagc	atgcctttgc	tgacgctggc	gcggcgagaa	agctcgtcca	gcgacagttt	360
tttctctttc	cgcacgctgc	ggatacgggt	cgcgacggcc	aggcttacct	gggcaacatc	420
ggcacccgca	tcggtcatta	tattgacttt	atcagtcatt	ggtcactacc	atggtataaa	480
acagtcaata	caggattatt	tatgtctctt	gtaacaccgt	caatagattc	gcgacttgct	540
gggatcgcg	cgggctttcg	ggcgctgagc	attctggttg	aagctgcccc	gattacccaa	600
cgggaggttg	cgcgcgctgc	gctggcgagc	gcttgccagc	agatgctcaa	tgatgatgtg	660
ccctgggcag	aaaatcatct	cgcgcgctgg	gatgaggtgt	ttaaagcctt	tggtgcaaaa	720
cccaaacgta	cgccttgctc	ggcctcgccc	ctgcgcaagc	gcgtgatgag	agacggttcg	780
ctgccgcgcg	tcgacccggg	ggtggatata	tataatgcc	tcagtatccg	ctacgctatt	840
cgggtagggg	gagaaaatct	ggcggcttac	tcgggagcgc	cgcgcctgac	gctggccgac	900
ggcagtgagc	cgttttgatac	cgtcaaagag	ggtgagccgg	tagtcgaaaa	tccggagcca	960
ggcgaagtta	tctggcgtag	cgatcttggc	atcacctgcc	gccgctggaa	ctggcgacag	1020

gggatacgc	cgcgctctgga	cagccaggcg	cagtcocatgt	ggttttattct	cgaaagcctg	1080
ccgtcgatgc	cgctggcggc	attacaggaa	gctggcgatg	agctgggtgag	caatctgcaa	1140
aagctgatgc	cgggcgcgac	ggcgcggtatt	cagttgctgg	agctggcggtg	a	1191

<210> 4865

<211> 219

<212> DNA

<213> Enterobacter cloacae

<400> 4865

caaccagcat	cccgcctgcc	cgccatccct	gaaatccgcc	atttcgtgcg	tcattctctcc	60
gtttcaaacg	tctcctggca	aattgcggt	cccaacaaca	gaacagcact	atctgctggt	120
ttcttcacct	ctcatcgcat	tcttttacag	gtaaatcgct	tgtttttaca	ccattatcat	180
cctgttaacg	gaagcgccag	aaccttaacg	catggataa			219

<210> 4866

<211> 399

<212> DNA

<213> Enterobacter cloacae

<400> 4866

ggtgcactca	tttttatagg	ccaaatcatg	ccgcatacgt	cgagctgggtg	gggattaatg	60
ttggagctgt	atcgctctca	taaaacotcg	tttgatatatt	ttttgttgat	cgtcctgggc	120
gtaatcggtc	gggtgttcta	ttggggcgga	aaacttcgcg	aatgtttgcg	tgatatcttg	180
atcgggactg	tgatcatgac	ttttgcgcca	gctcacctcc	caaagtgaat	gatcgctatc	240
ccgcaaattg	gctcagtcga	attcagccac	aatgaaattg	cgtttgtaat	cggtatgttg	300
ggttacaaaag	ggattaaggc	tgtcattttt	ttggtattaa	aaaaccggtt	tggcatcgat	360
ttacccgctc	gaattgcaca	gcgcaaagac	aacgtataa			399

<210> 4867

<211> 516

<212> DNA

<213> Enterobacter cloacae

<400> 4867

cccgtcacg	cggggttttt	tatggagcaa	accatgactg	atagatgtaa	atgggtcgct	60
acagctcgta	agtacatcgg	agaagctgaa	gtgcatggtc	cgaaacataa	ccccctcatt	120
ctgcacaaatgt	ggcgcgatat	caagcgcggc	gggattaaag	atgatgaaac	gccatgggtg	180
gcagcgttcg	tcgggtctgt	cctggaacaa	aacggtattc	agtcaaccog	ttttgaatcc	240
gcgcgctcat	atctcgactg	gggaatcgag	ctgcaagagc	ctacatacgg	ctgtgtggct	300
gtattaacgc	gtgatgggtg	tggccatgtc	ggattttgtc	tcggacagaa	caaagcaggg	360
gacctgatga	tctcgggtgg	caatcagtcg	gatgcagtcg	atatcaaggc	gttttcacgt	420
cagcgcggtga	cgagctatcg	ctggcgcgcg	ggccagtcct	ccgttcctca	gtcattaccc	480
gtcatgagtg	cggaacattc	aacatcagaa	gcataa			516

<210> 4868

<211> 383

<212> DNA

<213> Enterobacter cloacae

<400> 4868

tccggaagag	gcgcggttgc	tcacgcgtgc	aaatcacgtc	tacgcgctat	gagctgctac	60
gacgacgatt	tgaacgcggg	tgacgagcag	atgctcgaag	cgtttggtcg	tccagttcgc	120
ctgccgaacc	gcgctgaccc	gatcatcgcg	atattcaacg	aaccctacgc	gcgaactgat	180
ttacccagct	cgggggggcg	gtttatcacc	ggcacagtaa	cgagtatcac	ggttaaactc	240
gggagcggtg	atggtatcgc	caggcggtgat	gtcatccaag	gtaccaaaaa	agcgcgaaac	300
tgggatgaaa	aaaggaaacc	ctggttctgg	gggcagctgg	aactgaatta	ctttcttgaa	360
agtagccccc	gcccggaagg	gtc				383

<210> 4869

<211> 972

<212> DNA

<213> Enterobacter cloacae

<400> 4869

actgcaggaa	ataatttctt	gttccattta	gggtacacac	aaatgcaagt	taaaagctta	60
gggttttcaa	taacaaatga	taatgaaaac	atcaaaacaa	tagatgtaat	gaatgaattt	120
attaaatcat	cctcacgtca	atataatcgc	gcagattata	cgcgcagggt	ccttatgtcc	180
gatgtgaatg	atTTTTatta	tgggttgggtg	gtcacattca	aaaacccaaa	gaagaactgc	240
atgtcacagt	tcattgacgg	caaattttaag	cttaaagtgg	aagaacttca	gggtgacgaa	300
aaattagtc	cattcaattt	atTTTTgtctg	aacaaaacta	atcttcgcgg	tttgtatatg	360
tctcatcatg	gttcttgcag	cctcaacaca	cttttcagcc	actttcaaac	cgtaagtaat	420
gaatttatca	gaaagcaaaa	cgcagcagat	attgaaaagc	tgggagacaa	tccaaagcaa	480
aaagaagtca	cgcaggttaa	caaaaaatat	aagaagcgtt	tttcatttag	cataatgaca	540
accaaggagg	atataaaaatc	cattcttggg	cagttcaaag	aaataaaaaa	agcatcattt	600
aaattcgatt	acatagactt	taagggggga	gcattgactc	cactcgaagc	atttgccaat	660
tcaacaacaa	tagacatgag	cattaatcca	gacgacaaat	ataaagttag	ggcactgtca	720
caactatgt	cggatacttt	tgaagccatg	aaaggtggaa	tatctaaagc	tagagttact	780
gcggtagatc	acggttgaat	agagaagatt	atagatttca	tggattgccc	tgctttcttc	840
gaatcttatg	atTTTTgatgt	aatagctgaa	aaaattaatg	gcctgactaa	cgataattat	900
acttccaacc	ctgtatttga	tatgatcaag	gatgagatat	tgaacgggac	caacaaaaat	960
gcctttgtat	ga					972

<210> 4870

<211> 297

<212> DNA

<213> Enterobacter cloacae

<400> 4870

atgaatgctg	atattttatat	ttacctcttg	aggagatcta	aaatggcaga	tgccgcattt	60
accctaccca	aaggcgtata	ccaaaagcac	aaagagttct	ttgagaaact	caaaatggat	120
atcgagggtc	ataccagtga	taagaacgtg	gatatggtat	ccatgagttg	ccataaggat	180
ggagataatc	aggattttctg	ggatctggtt	gaagcaacac	gactcactat	ttgcaagcaa	240
gaaaaccta	ctgccgatac	gggaggggct	ggtgttgtct	ggatattcca	taagtga	297

<210> 4871

<211> 237

<212> DNA

<213> Enterobacter cloacae

<400> 4871

gagatcaagc	tttgccgcct	ctactgcagc	ctgcgctaca	ttgacttggg	caatacgggc	60
atTTTTatca	gaagctgcat	cgtcataatc	tttacgggaa	acagcccat	tattgaccag	120
tcggctgaca	cgttcaaaa	tgcgatttgc	ctgaaacgcc	tgagcctcag	cttggcgaag	180
ttgcgcctta	gcgctatcaa	gagctacctg	aaatggctcg	ggatcaattt	gaaatag	237

<210> 4872

<211> 285

<212> DNA

<213> Enterobacter cloacae

<220>

<221> unsure

<222> (38)

<400> 4872

tcgagctgca	tcaccaatag	tgctcattct	ctccccaan	gctattcggt	gatactaaag	60
ttagtgttaa	aagacatagt	ttcaggcaag	acttttgggg	aatttgttaa	gcctctgaac	120
aagttggcac	acaaattatt	tccaaaaaat	tcgggccaga	agttaccctc	tttaaagggt	180
aaaccctccc	ctgataggaa	ggtcaagggc	catattattt	atTTTTtttc	aatcataacc	240
aagataattt	acttttatatt	ttattcattc	attaaagaat	cctaa		285

<210> 4873
 <211> 201
 <212> DNA
 <213> Enterobacter cloacae

<400> 4873
 cgccatctac gtggtgaaga cagggatagc cttcgacgga tggcggcaga gttaaactg 60
 ccgttgaact actttttttg tgatgatcag acgacagcag aacttgcat actcatatcc 120
 cgaatgacag aggaagagcg aagtaaactt atcgaagcac tcaaacgctc ttcaggtgac 180
 aacactgctg acaaaaaatg a 201

<210> 4874
 <211> 189
 <212> DNA
 <213> Enterobacter cloacae

<400> 4874
 aggtcgcacc caatgcgttc gttcgcacgc ccccttaaca ccaacatagc gtatgccaa 60
 aaaataatct ggcaatcctt tattccgcaa acgtttgctg aggtcagagt tatctatatg 120
 tcgtttgacc aaggcatcct gtctgagatt gaatgcctca acagaacgga atccagtgac 180
 gatcagtaa 189

<210> 4875
 <211> 465
 <212> DNA
 <213> Enterobacter cloacae

<400> 4875
 aaacaaagag gaagaaaact aatgcgtggt aaagaattgg atactcagat agagcatgaa 60
 ctccagttga tgttgattga agggtttgat aaatcgcta tttcagctat aaactacat 120
 gccagactta aatcaaaaagg aatcattaat ggtggcttaa gtacattaag taacattgaa 180
 cgaaggcgctc ttattgcagc ctatgtcgat caacaactat cgcctttgaa tcttcgtccc 240
 aaagaaaaac agcagtatgt gaaccgtaag actcggcagg ccttgcttgg tcgtaatcag 300
 cagttacagg aagagaataa agagcttcgc gaacaactag cacagaatac cttgtcattg 360
 attgaaattg tcaaagcggt aaaaatcaat acggttatac cggtagaaaag ccttccttgc 420
 ccgcatttga tcatggaatt acacaaaagg aaaaaagatc aatga 465

<210> 4876
 <211> 1242
 <212> DNA
 <213> Enterobacter cloacae

<400> 4876
 gtcactctaa atgactctga ggtgtctgtt aaaccgctgg cgattcagta tatagaggac 60
 gatattctcg atgccagagc tttctattct atattatttg ggttgaagat cctttgttgt 120
 gaagagttcc ctggatttac tttggaagac tatgaggatc ttgagtttat acctagacca 180
 aatgcgttta actgggagat ttatcaggac attgacaata ttctcgaacc tttggaaaaa 240
 agcatgataa ctaaaggttt atttgagata gcaactggat tggccagagg taaaacttat 300
 gatattaaag agttaaagca tacgcagta ctggcgctaa gttatgccac tggagcgct 360
 cccgtgcagt tggcaaagtt atctgttcga gacttgagaa ttgatacgtg cgatacacat 420
 actgggctaa ttagatatag cattctacta ccttacgtca aacagagacg ccttacgacc 480
 gagcgtttgc tgccttctat acctccgaa attggtgcgt taatcaagca ttatgtggac 540
 aaagctcagt tattatccca tgacagaatg ttcgaaatgg gagtgtctgc ccctgctttt 600
 gtctcccaat ctataagcca agccattcta aacttcagtc cccctgaata tcaaatgcc 660
 gttggtcgcg gagaggcgcg tccccgcgca atcacatcta ctgatctacg tcacaacggt 720
 ggacactcac ttgcaatgca gggcgctagt gcagaggaaa ttgctcacat tcttggccat 780
 tcatctctgg ttgtagcaaa gcactacatc cgtgcgaccc cagccttggc attgatccgc 840
 gctaaagcac tcggttctaa cctgtgtgtg caaaacatgg tggctatgat gcttactggg 900
 aaacttgtcc cttcaaaaaga atgggaaggt cgacgcgtgg ttggtatggg tgggtatcga 960
 ttgcactatg agattggtgg ctgtgcgaga accgatgatg aatgccctt ctgtgaagtc 1020
 cgttgctgct atggttgctt atattaccgc cctttccttg atggccatca ccagggcgta 1080

ttgaatagcg	tctctaaaga	agtcgatgag	ctgatagcag	tatcagatag	tgttggtaat	1140
gctctcaatc	cactaatttc	tgtccacgag	acgacgcaaa	tagaaatcaa	gtcagtgatt	1200
gcccgttgtc	atttgcataa	cgtcagaggc	tgtgggaaat	ga		1242

<210> 4877

<211> 261

<212> DNA

<213> Enterobacter cloacae

<220>

<221> unsure

<222> (15)

<400> 4877

cgggccttgt	cgaanaaaca	acacaaagtc	tcgacaagaa	gtctttttga	tacccgcaca	60
caagtcagat	tacaactaag	tcgaagcggt	cataaaacgc	tggtatctgc	taaagaaatt	120
ttacagggaa	gggggggtga	ttcgggtctct	attgaagatc	ttgtgcgagc	ctgtcttgaa	180
gagaaccagc	caattgatct	agcctcactt	tacottgaaa	atctcttaaa	acagaaaggc	240
accagcattt	gcgattttta	g				261

<210> 4878

<211> 453

<212> DNA

<213> Enterobacter cloacae

<400> 4878

tggtggattg	ttttctgttt	caccatacca	aacctaagaa	aaaagcaaaa	aacaaaacta	60
ctgtggctaa	gcctcaactt	aaacagacta	aaagagaagg	gagtgaataa	ggaactgggc	120
attatgggtg	gcacgtgtgt	gttactctca	gtggcgccgg	cgtggatcag	taataagaca	180
gttgatttgc	tcgaaagatt	ctatttcaag	cgctccgctga	gcattggagta	cgccgcatgg	240
ttacgtgtta	tgtgtgcagg	cttgttatta	gtttttattc	aggttgctcc	ccaatttaca	300
ctcctgtata	cccttaaaact	tgtcacgctt	attaatcttg	gaatccagac	aatgaaatta	360
aatggcgtgt	acaaatataa	aaggacggga	attttgcttc	cgggaggggc	actctctaata	420
ctcaccagac	ttaacccggt	caagaaaaaa	ttaa			453

<210> 4879

<211> 540

<212> DNA

<213> Enterobacter cloacae

<400> 4879

aacatgagta	ctcaaaagca	actttccaga	actaccggca	ctgaacgtat	gtttaaggaa	60
gagctggcgt	tatccttaata	ttgttgggtt	ttcaccagtc	cttttaccaa	ctggaccgat	120
aaagtcttca	gtgggtattga	agttccgtct	gaaggaccgt	catcattacg	gggtgagaca	180
gaaaaattct	ttcgttttgt	cggttaatgaa	gaaggctacg	acgcaggaag	ggctgctatt	240
ggtcttgacc	tatgtttgtt	ttcacttccg	ttgtgtttgt	tcccggacgc	tgccctgtct	300
gaggaagagg	ttatgagtaa	gttaaccgga	gaagttatcc	atggaattct	tctttcctta	360
cctgagttta	ttgatatgcc	agaagtgtct	gcttaccagg	tcagggatga	aattcttgc	420
tttaacactc	gctgtggaga	cggtatcttt	catggttggg	acacggcttc	agaattgtgg	480
aagtttgaaa	tctttccccc	caccaccatc	atgatgcagc	atacttcggc	aatacattaa	540

<210> 4880

<211> 915

<212> DNA

<213> Enterobacter cloacae

<400> 4880

ggaacaacaa	tgcaatggat	ttccacagcc	agccagaaaa	tcgatgagcg	tctctatcgt	60
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gatctaagta	aagcccgaca	tgaccctgac	gaggaccagg	taagagcaga	actgctgtgc	180
ggccattatt	ttttgcttgc	taaggaaaaac	gcttcgaact	ctgcgcctga	cgatcaaaag	240

tttgctttcc	tgcoctgacgg	gcgcaatctg	tgttggcaga	cgcgaacccc	ggtgcttcag	300
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atgcgtctgg	ccaggctgac	aatggtaacct	atgtccggaa	ccatcatgaa	cgaggctctg	420
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ttcttacaag	aatttcagat	ggctgaggat	gagctaaagc	gcaaacagtc	gttgatgggc	660
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aaaaaagcaa	aaaacaaaac	tactgtggct	aagcctcaac	ttaaacagac	taaaagagaa	840
gggagtgaag	atggaaactg	gcattatggg	gtgcatcgtg	ttgttactct	cagtggcggc	900
ggcgtggatc	agtaa					915

<210> 4881

<211> 564

<212> DNA

<213> Enterobacter cloacae

<400> 4881

tgtatctact	ttatcgatgg	ataccatctt	ttatatatca	ccttaaaccga	taagaataga	60
ccgcatcaac	gcccatactg	gcgtcaatat	gaggtaaata	tgcaacatca	ggatgcactc	120
caacgtaaat	tgcoggagcg	gatcttccat	gccgtctggt	ttgaaggcat	tgctacggcg	180
atcctcgccc	cgcaggccgc	gtggctaattg	cagcgctcgg	tggttgaaat	ggggggtctc	240
accataattc	tggcgaccac	ggcaatgctc	tggaaacatta	tctataactt	tggcttcgac	300
cgtttctggc	ccgtccagcg	ggtgaagcgc	acggcgaaag	tgcgcgccct	gcatgcgctg	360
ggttttgaat	gcggttttat	tgtgattggc	gtaaccatcg	ttgccgcgct	gctgggcgtg	420
acgctgctcc	aggcctttac	gctggaaatt	ggtttcttcc	tgttcttcct	gccgtacacc	480
atgctctaca	actgggcgta	cgacaccctg	cgggagaaaa	tcatcaagcg	ccaccagcaa	540
cgcgcgcgcc	tggcaagcga	ataa				564

<210> 4882

<211> 303

<212> DNA

<213> Enterobacter cloacae

<400> 4882

ccacgcaaca	ccttcctgtc	gctgctctgt	gacccaatcg	aggacgcgtg	taatctcctc	60
gtcctgatta	tcaaagctgg	ccagcgcggg	atacttcccg	gacaggccac	ctgcggcagg	120
ctgctgggat	ttgagagaag	cttctatgtg	attattgaga	taattaaatg	gtacgtctgt	180
ggcaaaaatg	agtatttgcc	gggtgttgcg	ataattggta	tccaaaatag	ttgtacggcc	240
ctgagccttt	atatcgacgc	tggacagggg	aaaatcgaga	gctttctttt	tctgataaat	300
tga						303

<210> 4883

<211> 1407

<212> DNA

<213> Enterobacter cloacae

<400> 4883

cacgtttctt	cattacgttg	ttggcttcac	ttactggatg	ctaacaatat	gaaaagaaaa	60
attattcctg	tgcttatcgg	ttgtgcgctc	tctttctctg	gcctggctgc	gcagcctacc	120
gctgagcgt	atatcgctcag	cttccttgac	ggctcccatg	tgaaatacag	cggcgcgttt	180
gccgatgct	tcccgaaacg	gctcccgtg	gggatgggtt	ctggctctgt	gttcacgggc	240
aagcagggcg	atgcgctgac	gtttgcgacc	gtgaccgatc	gcggtcctaa	cgcggattcg	300
ccaaaaatgg	ggaaaaacga	tgccaaaatc	tttgttaccc	cggatttcgc	tccgctgctg	360
atgacgatcg	cgctgcaaaa	cggtaaagcg	gaggccgtgg	acgcgcgacc	gctgcatgac	420
gataaaggcg	agatcaacgg	cctgcgcgtg	caaagcgggt	tgattgggtc	caccaatgaa	480
gtcgcgctaa	gcgacacctt	aaaagtactg	aaaggcgata	accgcgggct	ggatacggaa	540
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attaacgtcg	acagtaaagg	gaaaatcctc	gcgatccacg	gtccgcaggc	gacgcaaggg	660
gagaagtcca	tcgcggggcg	tctgccaaac	gttatcaaat	ggcgtcaggc	aaaccggggc	720

ttcgaagggc	tgacccgc	gcccgaacga	cgcattatcg	cgcgcgtgca	aagcacgctg	780
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aagcttaagg	attaccgggt	gaacgcggaa	ggcaagctga	cgctggatga	taaaccgggtg	1320
gaaaccacgc	tcagcgtgaa	gccgctgaag	aagccggagt	cgcacagcga	gctgtggatt	1380
gtgacgctgc	cggaggcggt	gaaataa				1407

<210> 4884

<211> 219

<212> DNA

<213> Enterobacter cloacae

<400> 4884

aacgctgcta	ataacaataa	aaatggagaa	catcaccaac	agtacttttg	caagaaaacc	60
aaactgtata	tttattgcaa	aaggaaaaag	aagaaacgca	ccccaggcaa	ggagcgacgc	120
ccatccggcc	aacttattta	caacacggcc	actttcgaac	cgaataaaat	gaataataat	180
ttcctgtctt	caccgcgagg	ctgccaggta	cgcgcgtaa			219

<210> 4885

<211> 216

<212> DNA

<213> Enterobacter cloacae

<400> 4885

cctacactat	ttttaagcgg	attagaattg	attaaataca	aaaaacagaa	tggtataaat	60
atgattttca	gcagatgtgc	cagagcagaa	attaaggaaa	acatgagaaa	gaggaaaaac	120
aaaaaggccc	acgttacaag	taacgtgggc	ctgaatatgg	gcggaacgga	cgggactcga	180
acccgcgacc	ccctgcgtga	caggcaggta	ttctaa			216

<210> 4886

<211> 186

<212> DNA

<213> Enterobacter cloacae

<400> 4886

ctaaacggaa	tcccggagggt	taaactctgcg	ctaaatggcc	ggaaatattt	tgccaagcag	60
atcgttagct	tcagattttg	tggtgaaata	aagcctgtgt	tgcgttactc	ttctgacgat	120
aaagttaatg	attcttgtca	gaaagcgggt	gcgtatcgtg	aacagactta	taatgagaga	180
aatga						186

<210> 4887

<211> 261

<212> DNA

<213> Enterobacter cloacae

<220>

<221> unsure

<222> (65)

<400> 4887

tacgggcatt	tcgattccct	ctgccggaaa	tatgattttcg	ttttaccctt	ttggcggtgt	60
gatcngcgcg	cccattgtgg	cgctgttctc	cacaaatttt	cgctgataaa	caagctgctg	120
tttctggtgg	cgaagtgcct	cgttggtaac	acacccttta	ccttctctga	actcctaact	180
ggggcttgcc	ggcggggccc	taaactctctg	gttttccgca	ttggcgcccta	ttttcggcgt	240
tgggggctat	taaccogtto	a				261

<210> 4888
 <211> 321
 <212> DNA
 <213> Enterobacter cloacae

<400> 4888
 agaggctccc actgcttgta cgtacaagggt ttcagggttct ttttcaactcc cctcgccggg 60
 gttctttttcg cctttccctc acgggtactgg ttcactatcg gtcagtcagg agtatttagc 120
 cttggaggat ggtcccccca tattcagaca ggataccacg tgtcccgccc tactcttcga 180
 gttcacagca agtgtgtttt cgtgtacggg actatcaccg tgtaccgtcg gactttccag 240
 accgttccac taacacacaa gctgattcag actccgggct gctccccgtt cgctcgccgc 300
 tactggggga atctcggttg a 321

<210> 4889
 <211> 234
 <212> DNA
 <213> Enterobacter cloacae

<400> 4889
 ccagattttt ctgcaatttc ctccacaagt aaagtagatg tcagtgaatt ttcgacccat 60
 tggacgatat cttaaacac actatccgca tacgtttttg tgatcatatg tccccttata 120
 actaaattct acatttatct aaaaaaaaaa tataagttct tcatccatga agaactttct 180
 agaaatacta tttacgtaac aatctcagac catttgctac aaccagaagg ctag 234

<210> 4890
 <211> 198
 <212> DNA
 <213> Enterobacter cloacae

<400> 4890
 gcagcagtca ccgctatgtc catgatgttc atcagcctga tcctcctgag cgtgggtcatg 60
 gttacacccc ttatgtctgat gatcgccatg actatgttct tcctcaccat gatcatgttc 120
 ttcacagta tgactatgtt catggctgca tccttcattg gcacgcccac ctttcacatg 180
 cccttgctcg cgatgtaa 198

<210> 4891
 <211> 201
 <212> DNA
 <213> Enterobacter cloacae

<400> 4891
 tatttccgta taaagttaat taatagaaaa agctcagtga tggcgaaaca caagtccaac 60
 tcttttagtgt tacgccatca tggctcctaga aaaatagcta atcttttgac actctgtttc 120
 caccgagaacg acgttgcacc gcaccttctc gtttacccga atgacttata tcacagcaa 180
 tcgttaatat atgaagaata g 201

<210> 4892
 <211> 201
 <212> DNA
 <213> Enterobacter cloacae

<400> 4892
 gctaccaggc actttctcca ctgggatagg ctccccggtt atcatcgatt catctacaaa 60
 acttggttct tcacttacct caccatcaac aggcactcgc tcacctggtc gaacttcgat 120
 aatgtcatca aggactacat cattaattgg aatatcgaca acaacgccat tacgcaacac 180
 atgcgcctct ttggcctgta a 201

<210> 4893
 <211> 189
 <212> DNA

<213> Enterobacter cloacae

<400> 4893

ataaatcatt	ctgaatttat	gtgtgataaa	attgtctggt	ccttttttat	ttattctgtg	60
aatagattca	cttcccgtag	attaattcaa	cctgaagttg	ggatatttta	tgggggagcg	120
atgggtgtat	tgtttttaat	gaacggaatg	tttgttaaaa	ggatagctaa	taatgtcagg	180
ggaatctga						189

<210> 4894

<211> 2130

<212> DNA

<213> Enterobacter cloacae

<400> 4894

aatggagata	atggaatgac	ggaggcgaag	acaaaaccct	acgctccacg	ggtggatatca	60
gaaggcgata	ttccggtaca	caaaaccctg	ggcgaagtcg	cccagacgcg	caacgtcggg	120
ataccgcgcc	cgatgcccgg	cattgtgata	ctcgtccatg	gcgtgaacga	cgtgggtgaa	180
gcctaccaga	accaggagaa	aggtatactt	gccgggctgg	gtaagcgact	taaccggcag	240
gatttttacg	cccacgaatg	gaaagactac	agaattatca	ctccagggcg	ttcccccatc	300
atcccgtttt	actggggata	taaaccgggt	acgcatgctg	attaccgggc	ggaccagaag	360
cgctaccggg	aggaggctcg	gaagctgagt	gacaaagcgc	atcttcctta	tgatgcgtac	420
caggaagata	acgagacgaa	taaaaagtcg	ctgggtaatg	acggaaaagg	gccgtttcag	480
taccagaacg	ataactttta	gaacgcactt	gataagagtt	ttgccaaggg	gggcgggacc	540
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ccgtccagtg	atcttgtcgc	agggaatcag	gacgtcgcaa	atctgcaatg	ggacatgccaa	2100
aagcccataa	gtgacagtca	actggcttaa				2130

<210> 4895

<211> 711

<212> DNA

<213> Enterobacter cloacae

<400> 4895

agcatgaaaa	tatcattttat	gggtctgatg	gccactgctg	ttttactggc	gatcgggatgc	60
caggcgaaaa	gaaccgcaac	gcagggtggtg	taccggttcg	atgatcatcg	ttatctcgaa	120
ctgaaaggct	ggggccgcga	aggcgaactc	tggtacacgg	atactgagct	gggtatacat	180
acccaacctg	ttagccaatt	ttacaagatc	ttcaccaaaa	aattcataca	tccatcggag	240

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cgttatatag ctatccctac ctggggctct ccaggaacaa taatttcaaa agattatggt 300
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ccgcctacg atgacattat ttcccttact gttgttaagg accagggtt tatgctgacc 420
aaacaccggc tgtatatgtc gtcaaaaaccg tttgaagacc cgcgcttct gcccggcggg 480
ccggggattg cctataaccgt ggatgacgga atgggaaata aagtaagcgg gaagctggac 540
ccccgttccc ctggctgggc gtggggaatg gtctacatga ctaagcaggg actcgagggc 600
agcacgcagc aacttaaggc taactggcaa gatttaccgg acagcgtacc cgaggtgaag 660
ggctataaccg gctgggatca tatgcgctgt gatatggatg cggggcgata a 711

```

<210> 4896

<211> 711

<212> DNA

<213> Enterobacter cloacae

<400> 4896

```

ctgatgaaag gattatgtac cgttctcgca gccacgtctg ttgtgctggt gaccggatgc 60
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ctgaaagggt gggattgtga aggcgaactc tggtagacgg atactaagcg aggcattcac 180
accgaaccgg taagtcagtt ttatcgactc tttaccgcta aattttattca tccatcagag 240
cgatatattg cactgacggg atggggagtg agtggattca tagtatctaa ggactatggg 300
aaaacgtggc gctctgtagc gttttcacca aatcataatg aacccaatgg tgatgactac 360
gcgcgctatg aggatattat ttctttcacc gtcgtcaacg atcagggttt tttacagacc 420
aaacaccagg tgtatatgtc gtcaaaaacca tttgaagacc cgcgcttct gcccggcggg 480
ccggggattg cctataaccgt ggatgacgga atgggaaata aagtaagcga tacgctggac 540
ccccgtttcc ctggctgggc ctggggaatg gtctatatga ctaagcaggg gcttaagcac 600
agcacgcagc aatttaaggc taactggcaa gatttaccgg acagcgtacc cgaagtgaag 660
gagtacaccg gctgggatca tatgcgctgt gatatggatg cggggcgata a 711

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<210> 4897

<211> 204

<212> DNA

<213> Enterobacter cloacae

<400> 4897

```

ctgatgaaag gattatgtac cgttctcgca gctacgtccg ttgtgctggc gaccggatgc 60
caggcgaaag aaccaccaac gcagggtggtg taccgatttg atgatcatcg ttatctcgaa 120
ctgaaaggct ggggatgtga taggaaactc tggttcccgg atactaagcc aagcattcac 180
tccgaaaccc ctaagttcgt ttaa
204

```

<210> 4898

<211> 183

<212> DNA

<213> Enterobacter cloacae

<400> 4898

```

aaaagatcga tttttgagcg atgtgtgcgc atccatctgc cagtgttcac atttcaggag 60
cgacaaaact cttcagccct ggtcatgatt ttccctccct tttatcactc atgcagaaaa 120
cctaaacgcc agccatgcag taagttcgcc acgtatccgg aaggtgcgaa cggcgtgctt 180
taa
183

```

<210> 4899

<211> 234

<212> DNA

<213> Enterobacter cloacae

<400> 4899

```

aaaagaacgc cgcgtagcgg cctgccgaaa tgcccttgcg cgctttttgt gagcctgaca 60
aaaagttgct caaaggttgg ctaccagatt attttgttac tttatcgaag tgatggaata 120
gtccagccac ggactattcc atcactcaca gttataaaaa ataaggataa tattggcccc 180
actatatatt taaatatcct atctcttttt ttaacccta tcacatacag ataa
234

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<210> 4900

<211> 213

<212> DNA

<213> *Enterobacter cloacae*

<400> 4900

aaaagcaacg	ggccgttaag	cccggtgttc	gttacatcat	cgcagttcta	ttactctcgc	60
ccgctcagcc	tgttttcggt	agtgggcata	tcgctcccg	aaccatgcct	gctgtttatt	120
actcatattg	ccggtcacgg	catcgatatc	aactggctgg	ccctgggcgt	acatacgggc	180
aaaactgcgt	gccagaaaat	caaaattctt	ttaa			213

<210> 4901

<211> 765

<212> DNA

<213> *Enterobacter cloacae*

<400> 4901

tggcgtgct	gcacgtgtgg	ctggggcgcg	acctggatgt	acgtatgcag	ttatgcgttg	60
cccgcatatt	gctgcggat	gcgcggtgt	cctgcaatgc	ggaacaaatc	gcgcaggctc	120
ggcgacggc	agtgtgcgt	ccccattaatc	cgcaacagaa	cagaaacgac	attatcacca	180
ttcaccttg	acgttttcag	cgcgtccggg	aaaacattca	gcgaaggaaa	aacgatgaag	240
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ggtctgacgc	agaaagtgc	ggatggcacc	gtcgccgtca	cgaagtccat	tttttacaga	360
caggtgaaaa	cccttcacct	ggatattcag	gcgcggaag	gggtgaacaa	caacgcgaag	420
ggggcatcgc	tggcaacgg	ggtgcgaatt	taccagctta	aagagcgtaa	ggcgtttgac	480
agtactgatt	atccgtcgt	gttcgccagt	gacactcagg	ccattaaagc	cgatcttggt	540
gcggaagagg	atatccgcct	gcgcctggc	gaatcggtga	cgctggatat	gccgatggaa	600
gagagcgcg	aggttgtggc	ggtggcggg	atgtttatgg	caccggacca	ggtaaatgat	660
acctggcgta	ttaccctgac	ccgtgacgac	cttgaccgg	ataaggcgcg	ggttatcgaa	720
gtcagtaata	atcgtctgac	gctgaaaccg	ctggaggggg	aatga		765

<210> 4902

<211> 213

<212> DNA

<213> *Enterobacter cloacae*

<400> 4902

atccctgttg	ggcctgagcc	gataatggcg	atTTTTTTTca	tcgaaagcgt	tcctgcgttt	60
ctgaaccata	caacaagcgt	agcaggagaa	aggctaagtc	attcaatgaa	gggagaaatt	120
aagacgttta	gaagagggga	tgttgcgccc	cttcctgaat	ttatgggaaa	gtcaattcaa	180
ttgaccctgc	tgattagata	taattctgcc	tga			213

<210> 4903

<211> 429

<212> DNA

<213> *Enterobacter cloacae*

<400> 4903

gccagatgcc	gaaagcgaaa	gcgtaaggcg	gtagcagga	tgaaaattta	tcgtccgtta	60
tgggaagacg	gggccttcct	ggccccgcag	cagttccagc	agcaggcccg	ctgggatgca	120
catgtggccg	acaccgtggc	ccggatggcg	ctggcgaaac	cgtgggggtg	gctgtgtgcg	180
gagttcgacg	aaggcgctct	ggccctttca	cggctgaatg	ccaccgggct	ttgcgtgcgc	240
tttgcggatg	gtacgctgg	ggacacagat	ctggcgata	cccggctgcg	ctcaggcagc	300
cggtaacccg	ctgtcgcgat	ttctggcgct	gctgccggtg	atgatgctgc	cgggacggac	360
ggcggaggga	atggggggcg	tgggtcgggc	gctggcaccg	gatacgcgca	cgcaggttta	420
tcaccatga						429

<210> 4904

<211> 660

<212> DNA

<213> *Enterobacter cloacae*

<400> 4904

atgccaccgc	gctttgcgtg	cgctttgcgg	atggtagcgt	ggtggacaca	gatctggcgg	60
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gtgatgatgc	tgcggggacg	gacggcggag	ggaatggggg	cgctgggtgcg	gctgctggca	180
ccggatacgc	gcacgcaggt	ttatcaccat	gaccgctgcc	gtatcccgt	gaagcagccg	240
gttgcgatga	gtacatgcca	gccggtcagc	ctgaagcacc	ggccgggtgat	gggcacgcat	300
gccacggatg	tgaacggcca	ggtgctgttg	cgcttgagca	cggacaaccc	ggaagagatc	360
cggggctggc	tgcggggcgg	tgacctgcac	gctgacctga	tggcgctgct	gcacgtgtgg	420
ctgggcgcgc	acctggatgt	acgtatgcag	ttatgcgttg	cccggcattt	gctgccggat	480
gcgcggctgt	cctgcaatgc	ggaacaaatc	gcgcaggctc	ggcgcacggc	agtgtctcgt	540
ccccttaatc	cgcaacagaa	cagaaacgac	attatcacca	ttaccctgg	acgctttcag	600
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<210> 4905

<211> 477

<212> DNA

<213> Enterobacter cloacae

<400> 4905

tcgtctgacg	ctgaaaccgc	tggaggggga	atgatgccgc	gtccgtctct	gtatgacatg	60
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atattatcag	tactcgataa	catgcagcgc	atcctcaact	gccgcgccgg	tacgttggct	180
cacctgccgg	actacggtct	gccggatatg	acaaaaatcc	tccagggaat	gcccgggacc	240
gcccaccagc	tgattaccac	actgtcggct	gtgttgctga	aatacgagcc	gcgcctgagc	300
cggattaatg	tggatgatga	ggaacagatt	cagcccgggt	aactccgcta	cgccattgat	360
gcggagctga	aggggggtgg	gctggtgcgc	tacggcacgg	aatttatgcc	cgagggcagg	420
gtattaatcc	gtcatttgaa	acaacagcag	tatctggata	atacagccc	attgtga	477

<210> 4906

<211> 186

<212> DNA

<213> Enterobacter cloacae

<400> 4906

aaattgggcg	agcggcaacc	tgaacgacca	gatattttatt	ttaccctggt	cggaaaagat	60
acattaaaga	gtaacttttc	aatggtttat	tgtagaactt	gtgctgtagc	gggttctgaa	120
atattaataa	ttgattttct	cgcogtgagt	cattgcattt	tatctggcga	aaaggtcaat	180
ggctga						186

<210> 4907

<211> 255

<212> DNA

<213> Enterobacter cloacae

<400> 4907

aatgtgagag	aaaacagatt	ggtgcgtctg	aatggactcg	aaccatcgac	ccccaccatg	60
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gaaccaacga	ccccaccat	gtcaagggtg	tgccttaacc	aactgagcta	tgaacgcatt	180
gtgttgcgg	tgacaacggg	gacgaatatt	agcggcacag	cagtcttcac	cacggggctg	240
gaaggaaccg	cgctg					255

<210> 4908

<211> 705

<212> DNA

<213> Enterobacter cloacae

<400> 4908

gttacgcttt	gcgtcggatc	ttcgccccgc	tcgtggctga	agacaatcca	tagccatctt	60
tcgtctgcac	gcctatcaa	ccaaaatgaa	tgttcaaatc	atatatcgca	atcttctatc	120
gacattaaag	tacaagattg	gcttagccgt	tcaagagtag	cgtttattga	tttcataat	180

ctaagaaata	cagataaaac	cacattaata	acagtggaac	atcttgaagc	tttacttact	240
gttatgtcaa	ctactcttgt	cgcttaacgt	ccatattcaa	aaaagagact	taacttttagc	300
tttctaaatt	caatttacttt	gtctaaaact	tctcaaagtt	acacattaac	tttcccggta	360
gttctcagtc	cgctttttaga	tgctcttggc	ggtttccattc	aggaatgcat	aaccgaaaaa	420
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agctctcata	aagtggagga	cattaataac	gacttacagc	ttaaaactct	aaatataaga	540
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aagaggggcg	accggagaa	agaagagctt	cagtttatac	cttatgttca	acgaactcac	660
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<210> 4909

<211> 237

<212> DNA

<213> Enterobacter cloacae

<400> 4909

aaacacgacc	gtttcgggttc	gcatacctgta	cgccgaacgt	attcaacaag	aggaagtcct	60
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cagaggagca	tggttaaattc	caaacctgtc	agggatactc	aaatagaggg	cgagaaaccg	180
caaagtaaag	agtccgcaaa	ctcaactgaa	aacccccgtt	atgaagaatt	cttttaa	237

<210> 4910

<211> 459

<212> DNA

<213> Enterobacter cloacae

<400> 4910

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cgttatcagg	atttctggtc	acoggcaact	gtgattaaag	taactgtaat	gccttcaacg	180
aatgaaatcc	agctcagtg	taaaatccct	aaatcggtaa	gagtttcaaa	caattatggt	240
gagtactcgt	taccgggcac	actctcggac	aagaccattt	accgaagcgt	gttagaagat	300
gagatgctca	ctttgcttaa	tgctggagggt	caacttgaag	ttaaatacac	tctggacaag	360
cagacaaatc	gaactaagg	atgcactaag	tgcttacggg	tgattaaaga	tattaacat	420
caatattcag	ccactgaggt	aaagcatggg	cagtcctaa			459

<210> 4911

<211> 330

<212> DNA

<213> Enterobacter cloacae

<400> 4911

cccacagccg	gacgcagaat	aatttacttt	tggtcaaagt	ttggttttgt	cagagtcatt	60
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atgcggggct	ttttttttgc	ttctttctat	gagttgacat	ctttaagttt	tattcagaga	180
cataaaaaac	tttttcgtgt	cactgaacct	attaggttac	agagcgacgt	tgctatcctg	240
gtaaaagtgt	tttctaaagg	accggtaaaa	tgtcatctct	tgattctgaa	gctaaacccg	300
ataatgcagg	tcacagcgta	ctggctttta				330

<210> 4912

<211> 1824

<212> DNA

<213> Enterobacter cloacae

<400> 4912

ggctataaacc	tattcccggga	gcatacatatg	cgtaaaaactc	taattggctg	catggttgca	60
actgcccttg	ctactgtatc	ttcggcacat	gtcaggtat	ttagctactc	atttacagat	120
accaataagg	ctgttcggaa	tattaagcct	gcaacacaaa	catactctta	tcccgtggt	180
gttttgactc	tgaacttgat	atcgggtctt	gatcggtacg	agcgagtga	ggtcacacga	240
gacagcgata	aaaaggttat	gtattcctcc	gtctcgacca	aaacgagcgt	tgcatatcgt	300
atcgttgctg	cogatggaac	agaatactat	ggaaaggata	tggttctacc	ggcgctcgga	360


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gaagggacct ttactgtagt caatgaaact ctggatatct gccagactgt agtgagcaca 420
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aaacaaacag gtagaaatat ggcgtctggg aactacacgt atgagttcaa catgaaagag 1740
gtaccagaag gcagttataa cgtggtaatt aatgcccaag atacattcaa caataccggt 1800
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<210> 4913

<211> 213

<212> DNA

<213> Enterobacter cloacae

<400> 4913

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gttgatcaag tctggattgc tatctgcaag caatgcattt tgtgcaaaca tgttcagaaa 60
aacggcacca ccgcctataa agggttctac ccaccggcaa ctatgatcgt gtgggtagtg 120
atggctgatg aaaggcatca gtttcgtttt tccaccagcc catttgatta tcggcatgtg 180
tctgagatgt cgagtcaaa gttctatacc tga 213

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<210> 4914

<211> 309

<212> DNA

<213> Enterobacter cloacae

<400> 4914

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gcacccaaag aaaaatctgt tactgtttta gatgtcatac tttcattaat agtaatcatt 60
gcgacaatga atggtgatgc aattccaagt gttgctagga ctatcaccga tatttcagac 120
cggttttctt tagcggatcc tttacttatt gcagacattg ctctgaacat aacaaatgta 180
ctgttgagca tcagaaaaca gcataagagc atgtataaca ttgggtttcc tcaacctata 240
agtgatgggt accctgttat ttacataaa ttgactcaa cagatgcttt taaaatctcg 300
cttccttga 309

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<210> 4915

<211> 195

<212> DNA

<213> Enterobacter cloacae

<400> 4915

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actcatacgt gtagttccca gacgccatat ttctacctgt ttgtttgccg gttacgctta 60
ttctgcgtt gttacggttt ttatctgaca accaaactcg atttacataa acatggtcga 120
aatatgaacc atctccaggt tgattcacgt aaacctggag aatgttggtg gtttcaatgt 180
aatcaaatcc agtga 195

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<210> 4916

<211> 186

<212> DNA

<213> Enterobacter cloacae

<400> 4916

accacacga	ctctgcacgt	ttccttctcc	ctgggcacta	atcttagttc	cggtgtgctc	60
tcgatgatcc	tcagacctga	cgttcatcca	cgatgatctga	gcctgtggct	gtatatacca	120
gttatactcg	ctgccatggc	tgcccttgaa	tttaccagca	ttgaacgtgt	accagcttc	180
agctga						186

<210> 4917

<211> 381

<212> DNA

<213> Enterobacter cloacae

<400> 4917

gagttcggct	ccggtacctt	ttacggcgcc	cctggcctcg	acaagcgtga	ccagtgtttc	60
agcatcatcc	tggtccagaa	tggtcttctg	cgtatccggt	acaggccgga	cattcaccac	120
ctcaccggga	agcgtaacct	gtacggtaac	tttaccactg	atatccagaa	ggccgtcttc	180
actggttaca	atactgttgc	ttgcgacagt	atctccggga	gtaacggtag	caaaaatcaa	240
cttaccacca	tcaattccca	gtccaccgat	atgctgggta	ccatctccga	ctatggttgt	300
gttatcagtc	tcagaaataa	gcattgcatt	cgatgatgctc	tcagtattta	ttccgtcgag	360
cacaaagtta	ctttttccta	a				381

<210> 4918

<211> 555

<212> DNA

<213> Enterobacter cloacae

<400> 4918

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aacagcgata	ctgttaccgg	aattttcgaa	ggggccatca	tcaccagga	taccaatatt	180
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tataaaacca	gtcgcattac	taagcgcggt	ggttatatcc	gcctcgttag	taagaacaga	300
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cacaatagcg	ccgtcaccta	caagggtttac	gctaacaccc	tggtcaagcg	ttgcttcagc	420
ccccccggt	acgtacaggc	ccttagcatt	atccccaga	atctgaaaat	cacttcaga	480
ccgggcaacg	actttgcttc	ctgtaccogt	gaoccagata	ccgctgctac	cggtgccgga	540
ggttttcac	tgtaa					555

<210> 4919

<211> 225

<212> DNA

<213> Enterobacter cloacae

<400> 4919

acaaagtgtt	actcgcagca	attccggcaa	tgtatgagcc	tgccctctga	cgataaacct	60
tgaccacatg	ctgatccggt	tcaggagcag	gagttggagc	tgagagctgt	tcaggtgtcg	120
gatttggttc	aggttctggt	gtcgtatcag	gcccgggagt	cgtatctggt	tcgggggccc	180
gtgacagctc	tgaacgcaga	taccagtgc	cgccctgcgc	attga		225

<210> 4920

<211> 333

<212> DNA

<213> Enterobacter cloacae

<220>

<221> unsure

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 ctcatatgt tctgggacan atatgggctt aaatcttcca ggcgccagct ctggtatgtt 180
 ctggggcagc taaagttaag cctttattct ttaggtatcc cttacgattt tatccagaca 240
 aaaaaaggaa gaggttacca ttgggaaaag gtgaagatat atctgataat tgattctgga 300
 actcaatgca gtcactctaga tcatagtcgg taa 333

<210> 4921
 <211> 186
 <212> DNA
 <213> Enterobacter cloacae

<400> 4921
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 tggctgttct ttctgcaacc aatggaggta ccgttacact ctcttcttcg gggagactta 120
 ctggtgtttt accagcgtat ggctatggtg caggcgttgt ggccagttct ggtggtactg 180
 gtataa 186

<210> 4922
 <211> 186
 <212> DNA
 <213> Enterobacter cloacae

<400> 4922
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 acgcatgttc aggccttggg tcagaccctg agcgccacag ccgacaaaga ccacttttta 120
 acccagaagg aagctcgcgc catcagcaaa atcatcgcg cccaagaagc ggcaaaagcc 180
 cagtag 186

<210> 4923
 <211> 198

<212> DNA

<213> Enterobacter cloacae

<400> 4923

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ggcccatttt	tccgcatgaa	atatcagcat	ctgctaaatc	ctgttagatc	attgttaatt	120
ttatgcgggt	ttaatcgcat	tttcccagtg	aataactctg	taggcttttc	agcgattttt	180
ggtcataagc	taatgtga					198

<210> 4924

<211> 228

<212> DNA

<213> Enterobacter cloacae

<400> 4924

gtaatcgtgg	gcatccagcg	tcacaaaacc	ggcgtggccg	cgatcgctga	cgtgaacggg	60
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gcaggttccc	tgggccagcg	cgatggcgcg	ggcatcgaag	ccgggatgat	cggccgctg	180
cggcgcaacc	gcctcaacaa	gatgcacggg	aagctggcct	ttggttaa		228

<210> 4925

<211> 207

<212> DNA

<213> Enterobacter cloacae

<400> 4925

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acgcgtttcc	tgaaccatt	agcgtttaac	gtcgcgtgcg	atacggatgat	ttttcgtcgc	120
ctgggccatt	acgcccgct	gatgacgcaa	caaacgtcga	ttctttgcgc	aacgggggtca	180
gagcaaaaacc	cgacgtcgat	caagtaa				207

<210> 4926

<211> 249

<212> DNA

<213> Enterobacter cloacae

<400> 4926

cgcgcacag	gtgtaaacgt	tccgctggcc	ggcgataagg	caaacgaggg	cgagatggat	60
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ctggctgcag	acgctgccct	agcggcaatc	aacgaacatt	tcagtgatga	atttgtgaaa	180
ggtgaatggg	ctgattatgc	agctttgaga	agagcagctc	taagaactgc	cctagcttcg	240
cttatttga						249

<210> 4927

<211> 192

<212> DNA

<213> Enterobacter cloacae

<400> 4927

atgccagacg	cctctgatta	tttttcctgt	aaccatatct	tcggtttttac	cgtgcgaaaa	60
gtaggcgatc	tggacacagt	catttgtgtct	aatccaataa	tatccctctt	tcataattca	120
cctcttaaat	tgtttcattt	agaagtgtat	atgacgattc	agaaccgggt	ggtcgacaaa	180
acgttttttt	ga					192

<210> 4928

<211> 273

<212> DNA

<213> Enterobacter cloacae

<400> 4928

aaaactaata	taatcaaat	gatacaatca	cagttaaacac	aagttatatt	ttggctgggg	60
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ctgattgcag	cgcctccggc	cttctatcgc	tttgtgtacg	ctgggttcctc	tttcatatgg	120
cacaaatatt	tccctgtaaa	gaaaattgag	atacagttgg	ttaacgaaga	taaggcattg	180
attgaaaaca	ttgttctaga	ccttgataag	caggatgcc	agagggttat	cgagctaatt	240
gaatcaagcc	gtaaaaaggg	taaggttcgc	tga			273

<210> 4929

<211> 900

<212> DNA

<213> Enterobacter cloacae

<400> 4929

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gaacttttcta	aacatgcaat	cgatgcggaa	acttttaggaa	actctattct	ttccatggct	120
aaccttatat	ccaaagccga	tgacttaatt	aacgaagggtg	gaaaatcagt	aaaggtcctg	180
ttttctgctc	ctgttgaaaa	agggctctgtt	gggtgttgc	acactgttgt	acaacttctt	240
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tgctcagctc	ctgttgccggc	tctggtcaca	gaccttgcca	ttcgcaatgc	acttatcgca	480
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cttacagact	atgaattttt	agctaaagta	aggggtgcag	aggaaccat	aacaagtga	780
gaccttttct	cagtatcttt	agagattacc	aaaaccacct	cagctagagc	ttccgcagag	840
aagtatgta	tcaagaaagt	tatccggcat	cgagttgctc	aaggtaaaaa	actaatataa	900

<210> 4930

<211> 198

<212> DNA

<213> Enterobacter cloacae

<400> 4930

accttcttcc	tggtctggta	cagctgggtt	atcagcccg	ttgatattca	gtgcagaacg	60
cccctcgcca	acctccccc	cgggtgcttt	ggcaaaatac	tggtagcact	tgccgttatg	120
ctggcgggtt	gcgcgattca	gtttgaccag	atggcataca	ccgcgctgaa	cagcatgaac	180
gtcgtactgt	ggcattga					198

<210> 4931

<211> 219

<212> DNA

<213> Enterobacter cloacae

<400> 4931

tcaaatcctc	acactgagga	gatagcaatg	aaagaagggtt	tctactggat	acagcacaac	60
ggcctagtgc	aggtagctta	ctacaccgac	ggtatcactg	aggaccttga	aacgggccag	120
acaataactg	gtgtctggca	tctgacacga	ggtgatgata	tttgccataa	cggtagggct	180
gaagtgattg	aaggccact	gtctgcgcca	ctgaaatga			219

<210> 4932

<211> 417

<212> DNA

<213> Enterobacter cloacae

<400> 4932

gaggattcac	agcaatatga	ggggggggccg	atgtccgac	cattttccgg	cacggggctg	60
gccggtttag	ctttgaccgg	agccagtgtc	tacggtctat	tgaccggaac	tgactacgg	120
gtagtttttg	gtgcatttgc	gggcgcgcta	ttttacatag	cgacagcggc	tgacctgagt	180
gtgttacgtc	gcctggcata	cttcttcgtg	togtatatcg	tccgcattct	ttgttcgggg	240
ctgttgggtt	caaaactcac	atcctggacg	gggtacaccg	agaagcctct	ggatgctatc	300
ggtgccgtaa	tgccttctgc	gttagccggt	caaactccta	cgttctctgaa	caagcaggac	360

atcggtctgc tgggtggcgt gataacgcgc cggggagggt caggtggtac taaatga 417

<210> 4933

<211> 288

<212> DNA

<213> Enterobacter cloacae

<400> 4933

cgcgccgggg	aggttcaggt	ggtactaaat	gacccaacag	caactatcaa	cgcgctgctc	60
tgcgccggag	ttgtgattac	tctgatgttt	tatcgccgtg	gtgattcgcg	gcacgggcca	120
tggatttcgc	gttttagcctg	gctgattacc	gtcacttaca	gcgctgtacc	gctggcgctac	180
ctgtgcggga	tttaccgcga	ttcatcatgg	gccaccattg	cggccaatat	catattcctt	240
tcagtgtctg	tggccgtcaa	aggcaacggt	gcattgtctg	tcgtcctc		288

<210> 4934

<211> 342

<212> DNA

<213> Enterobacter cloacae

<400> 4934

cgcattgaaca	gtttaaaccg	attgagacca	gcgaagcaat	tcagatgcgt	tcacttggtg	60
gggaaagatt	cccgttcg	ctatgtggag	agattaaaca	accaggcgga	tgagaacaac	120
taccagcctg	tgaacgcgat	ggtagaggca	tttgactga	tgaacgagaa	ggggcggtgag	180
gaatggctga	agttgatcgg	cgattcagag	accacagagg	catcacgcgc	cacgtcatca	240
gatgggagcc	cgagaccgga	cgcgttatat	accttcgcga	agggtacgat	catgagtgtc	300
tcagccctct	tgagcaattc	cagcgtaaat	ttacagagtt	aa		342

<210> 4935

<211> 732

<212> DNA

<213> Enterobacter cloacae

<400> 4935

cgtacgggga	ggataacagt	gatgaataac	tcacagcgac	agttgcgact	gctgaatctt	60
gtcaggaaac	tgctgaagct	gggcccgcgc	aacagtaatg	cccatgaggc	aggactggcc	120
ctgcagcgtg	cccagaagct	gatggccaga	tacggtatca	gcgagcttga	cgcgggtctt	180
acatctgtgc	gcgaggcgct	ttcccgcacg	gccccttcgg	atgctgaaaa	agttccggaa	240
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cctgagatag	cagcctatgc	ctttgatgtg	ctgacgcggc	agctgaaaga	tgccacaaat	420
tcttatctca	aaaccagag	taagcggctg	aaactggcca	cacgcggggc	gagagcggag	480
cagttccgtg	acggctgggt	atgtgggggtg	cgtgagggtga	tatcggcaac	tgacatcagc	540
agcaggagc	agcaggtgat	gagccactgg	ctggaaagcc	gcagtatgaa	aacagtcaca	600
acccgtgaac	tgaagccctg	ccgcggtg	gatacagcac	gttatcaggg	gtatgaagcc	660
ggacaaaatg	cccgtcttca	tcagggtgtc	agcggccggg	gtccggcagc	cattggttac	720
cgtcaggatt	aa					732

<210> 4936

<211> 597

<212> DNA

<213> Enterobacter cloacae

<400> 4936

gggggaatga	tgaacagttt	atctcaggct	gccaaacggat	tgctgatgca	gctgggttatg	60
gatctgagaa	gtggctatct	gcgccgctgc	gaatcgctgg	gactgaaccg	cgaggaaatg	120
cagatgctgc	aggggctctc	gctcgaagag	cttcactacc	tttcgggcag	tgagggtgtcg	180
atcatcagtg	tgggcatcaa	tcacggcaat	ctggcgca	tgctgcagca	ggcccggacg	240
gaacagaaac	gactccagcg	tatcgatcgg	gcgctggcgc	tgggcggtc	cattgaactg	300
atggccaatt	acttcgggct	ctccagtag	gacgtggcgg	cccgcgctcg	tattgcgggt	360
atcgatgtcc	gcccggggcg	cggtaacgca	ctgggtgatg	aggaaaacgc	cgcctgtgg	420
cgacagtggc	aaaagtccga	cgttgaagat	gcggaaagtg	ctgacgggct	ggacgtgatg	480

atgctggctg	cagaacagat	gaacgtctcg	ctgacgtcgg	tctggcatgc	ggcccggtggc	540
tggcacaaga	cccggcagcc	ttctccggca	cgaacgcggg	taaggaagac	ggcatga	597

<210> 4937

<211> 378

<212> DNA

<213> Enterobacter cloacae

<400> 4937

cgggctggac	gtgatgatgc	tggctgcaga	acagatgaac	gtctcgctga	cgctcggtctg	60
gcatgcggtc	cgtggctggc	acaagaccgg	gcagccttct	ccggcacgaa	cgccggtaag	120
gaagacggca	tgaaatacag	gatgggttgc	ccgggcctgc	gggtcctcca	tggtacgccc	180
ccgcaatgct	gtcagaaggc	gttacgtcag	gttcgcccgt	tccggcaggg	ggcgcgtaat	240
tacacccggc	tcgatgagaa	aggttgcggg	tactacaaaa	tcgatctcgg	ccggttctgg	300
cgtctgctga	gtcgcaacga	aggtcggaca	tggcttcttc	tcagccacga	acgctataac	360
agcgccatac	ggaaatag					378

<210> 4938

<211> 219

<212> DNA

<213> Enterobacter cloacae

<400> 4938

caaccgcgtg	tcgagcaaca	gccggcgggg	aatggaatca	tgcacatttc	cggtaaacag	60
caggccgtta	cgtatcctgc	catcatcccg	ccggggactg	gccgcaaggc	gggcattcat	120
tttatccagc	gtataagcaa	tcaggcttcc	tgcaggcaga	ctcattattt	ttccttttcg	180
gccgccatca	cggcggttct	gaactgtcag	tatgcttag			219

<210> 4939

<211> 255

<212> DNA

<213> Enterobacter cloacae

<400> 4939

gagtcgcgcc	gcgctgtttc	agcgccagcc	ccaccacttc	gcttagctgc	atcaattcat	60
ggtcagtcac	tctcgctcca	ggccttagaa	aaacatgcag	cacaagatag	cactttctca	120
tcaaatatgg	ggatgcgcgt	cggtttttac	gagggggcct	cagaaaaaag	ccgatgcggg	180
cgcaccggcc	agagagacgc	ttatttcatg	ctgttagcga	gggtgtccac	attgtggcga	240
aacgccttga	cgtag					255

<210> 4940

<211> 432

<212> DNA

<213> Enterobacter cloacae

<400> 4940

aaccttttgc	cgtttgtcat	tgaaatgagc	ttccagcctg	atgactggct	tttccgacat	60
tgcaaaagct	ttgtccgtta	ctctgtacgg	gcattcatct	ccgaaacatt	ctttaacaac	120
gctggctatg	accgtgtcgt	gttctccatc	ttccggagct	ggcaciaaaga	tttcaaattg	180
tgccggtgta	tccggtcaca	gcagaacggg	atagagacgc	ggagaattaa	gcaaagcgca	240
ttcagaatta	atgagcttaa	cccaggcgct	tttgtcgtcc	ggatccttaa	gctgctgtcc	300
aagggtatcg	caaaagtcaa	ctatctgaag	ggatgtctca	tccgtgactg	cacagatcag	360
gttaagacca	tgcgtggcca	tacgcagttc	ccgggttcgg	gactgggaat	tgatcgacca	420
ggggttaaagt	ga					432

<210> 4941

<211> 267

<212> DNA

<213> Enterobacter cloacae

<400> 4941

atccgcttat	ttcagagaag	ctctgattta	gtagttaggg	aaaacgatgc	ggtgaaaagt	60
aactttttaca	ccgcaattca	gaaaaaagtt	tcaatttagtc	acattacgaa	taaccgggct	120
tacttttgcga	tgtgcgttcc	cctggatggt	aaagtaaagc	ccctcaggca	gactcgtcgc	180
ccacttaact	cctcgctcag	ccatacgctt	cggtgtttcc	agccaaccac	gaggaatatt	240
gcccgtaacg	tcaccgataa	cccgtga				267

<210> 4942

<211> 228

<212> DNA

<213> Enterobacter cloacae

<400> 4942

tcaggagAAC	aacccatgaa	aatcaaaacta	gccttggtta	ttgcatttgc	aggtttcagc	60
gcaggagttt	ccgctgaaat	cgcagaaatc	agcttttaaag	ataccctgaa	cgttaaaaag	120
accgtatcgc	ctgcatccgt	atggattaat	ccggtaacga	gctttgacgt	tgccgggtta	180
tttttccggt	ctggaccggt	atattacgct	cagtctgctg	aaaagtga		228

<210> 4943

<211> 525

<212> DNA

<213> Enterobacter cloacae

<400> 4943

ccagtagatt	cattctgtca	tgattactcc	agaactaacc	ggaggaatca	cattatgacc	60
aaatattatg	atcgcagtgg	aattgaaatc	tccagcgcaa	aaatccgctg	tgttgattct	120
gtaaaaggta	ctgcggaata	tacttttctg	attgtttgcg	ataaatgcaa	tgggcgggga	180
gagcgtaaag	atttttatag	aagtcgctgt	atggcttgta	aagccacggg	ttacagcctc	240
gaaacgaccc	gtactgctta	cacgctgaat	gcgctgtacc	gcattaatgc	gcaagctgcc	300
cgaaaagtgt	cagcatccct	gcaagacgag	cgtttaagga	ctgaaagcgc	ccacagttct	360
gcgttcacag	catggtgcag	gtctcatcaa	aaaatggttg	atgcaatcac	ccaacaatcc	420
agtagtaata	attttctgga	aagccttaag	tcttctttaa	cccaccagcg	tcagttaaagt	480
gataagcagc	tggcagttgc	cgccccgatt	ttaggatatt	attaa		525

<210> 4944

<211> 1206

<212> DNA

<213> Enterobacter cloacae

<400> 4944

atcgctcatc	cattaaggtt	aaaaatgaag	ctattttcaa	tttcatcccg	ggatacaagc	60
atggacgcga	tgttttatat	ccaggccagt	actaaacaac	aggcaagtta	catatttagt	120
accctttccc	cgaagcctat	tgcgaactgc	cagcttacag	atttgcagaa	tgagacggtc	180
gtcccttcca	taagccctat	ttcgctttca	cttaaccctt	ggtcgatcaa	ttcccagttc	240
cgaacccggg	aactgcgtat	ggccacgcat	ggtcttaacc	tgatctgtgc	agtcacggat	300
gagcataccc	gtcagatagt	tgacttttgc	gataaccttg	gacagcagct	taaggatccg	360
gacgacaaaa	gcgcctgggt	taagctcatt	aattctgaat	gcgctttgct	taattctccg	420
cgtctctatc	ccgttctgct	tgagccggat	acaccggcac	aatttgaaat	ctttgtgcca	480
gctccggaag	atggagaaca	cgacacggtc	atagccagcg	ttgttaaaga	atgtttcgga	540
gatgaatgcc	ggtacagagt	aacggacaaa	gcttttgcaa	tgtcggaaaa	gccagtcctc	600
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gatgtgcggg	tctataacct	gttaaaaaga	gaaaaagatg	ttaagaggct	gcttgataag	900
tcaaccaggg	gaagttagct	tgtaccggcg	aggcacgggc	agcagtttaa	cggggtctta	960
gtgaatgcca	caccgcgcat	ggccactact	ggttttcatt	accttttcga	tgattttccg	1020
gaaggccagt	ttatgatgac	agccgaggtg	ttgcatgttg	gaattacacc	aggcgggtatt	1080
tactacattg	aaacactgga	cgggttaaccg	tttatcgtga	cagcgtttga	gaagggtatta	1140
atgaacgggt	tgaggggagt	tatagctgca	aatgaggaat	attttaagta	ttaccgctgg	1200
totttag						1206

<210> 4945

<211> 282

<212> DNA

<213> Enterobacter cloacae

<400> 4945

cctcaaactg	tgctggaggc	acaaatgtct	gaaaaacact	ttatcgttaa	aatccagaac	60
cgaaacggcg	accatgagaa	tagctatggt	cggttactcg	tcagcgattg	tgagaaaaat	120
gcttgccaga	cggcactcat	ttcagagtgc	catggcgagc	ttgaacagct	gagttttgaa	180
gacggtgggg	tttacgacta	caacggcgaa	aatcactaca	gtgtcaggag	ctgcgtggag	240
gttgctccag	aagacgttgc	aactttgcaa	cgcttccttt	aa		282

<210> 4946

<211> 441

<212> DNA

<213> Enterobacter cloacae

<400> 4946

tcattatcct	acaattcaaa	aatattcatt	atTTTTtctt	ctgacctatt	agccagaatt	60
ctcgattcgg	tatcattttac	ttacggtaaa	tcttttgaaa	acgaggtaaa	tggcatgcat	120
tctcaggatc	ctatcacgaa	attaaccacg	acgttgcaac	gcgacgatgg	ttctcagggt	180
cgtattgtag	cgcagcgggg	atatggaagt	gggcttacag	cctcgcttga	tgtgtacgtt	240
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tggagaaaaga	tgctcagtaga	tgagtatcag	aaatttggaac	gctctgaaat	gctgcgttat	360
gccacaccag	gtgaaattct	cagggtggca	tcgctattg	gccagccaat	gagcttcctc	420
gatggcaacc	ctgcgtttta	g				441

<210> 4947

<211> 714

<212> DNA

<213> Enterobacter cloacae

<400> 4947

ataatcaagg	agtcaactgt	ggcagataat	tatactcagg	cgctcgtttat	tattccctgc	60
actcaggagc	aggcaaaaat	ggcacaagaa	gcaatcacat	tcgttaccga	agcagaaaatt	120
gcagaagggtg	agcgtttgc	tgataagcca	ctgacagatt	gttctctgac	tgagaagctg	180
atcctcagta	ttatcgagaa	ccaccctgag	tatgaccctt	ctgagccgag	ctttgggcaa	240
ccatcctgcc	cagactgcaa	ttatgaactg	ttgttcgcaa	cagaagttac	cagcagtggg	300
ctggcagttt	ttcatggaga	gaccattgat	cttgaccatg	caatttgcct	cacaactgcc	360
gtgctgtcgg	tattcgacct	ctcgaaaatg	gtaacaatta	ctgctgcatt	tacatgcagt	420
aaaagccgga	cagatgaatt	tgggggtatg	actattctgg	tcacaaagga	taccactat	480
taccaggatg	gctgtcagtt	ttctcgtctc	atgaatgagg	ctcacaagc	cggtatccag	540
tatgctctgt	gtaaagtgc	gcattaccac	ggtgagagca	gctatgtggc	aagctatgtc	600
ctgagctgcg	acgtagcggg	ttcagcccag	gaggtcgta	acaaacgact	gaaggcatgt	660
gccgaaaaag	agccagaaga	gtcttcacca	cggggctgga	aggaaccgcg	ctac	714

<210> 4948

<211> 1635

<212> DNA

<213> Enterobacter cloacae

<400> 4948

cgagctttga	cgttgccggt	ttatTTTTcc	ggtctggacc	gttatattac	gctcagctctg	60
ctgaaaagtg	acgggagcct	catctggagc	acgaaaagca	gcctgggttac	cgttgatgac	120
cgtaccacat	cttcgacagg	ctttgattat	tacggcaaga	ctctgaccgt	accagcgatg	180
ggagaagata	gcttcaccct	cagagagggtg	attaccgact	tgcaaggga	ggaggctctc	240
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acgagaaatg	ggtggaactt	tggcagcgaa	gcgatcttca	cttcagtacc	agccggtatg	360
cagtacgcc	gcgtccaggc	actggctctt	aatggactga	gtgataaagg	ttccgggctt	420
gctaagtctg	aatattttcat	aaccgatgcc	gctggagtgg	agcgtaaaaa	gccagcggaa	480
attaatacag	tggaaagtag	cgtaaccggt	caagtcgcgc	acgcaagcag	caatgccctg	540

gcaccggaaa	accgctctga	atataaagtg	gggatctacc	tttatgacaa	agcgggaaac	600
aggagcgaac	taagccgcgc	aagcgtaatt	gatcgggtta	agcctgacga	tatcatccag	660
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gctggtctac	cggacgggga	ttatacggtt	gttagcgtgt	ctgccacgga	tcttggtggg	1560
aaactcagga	accaaaccgc	ttatggcccc	gctgaaaatt	cactcaacgc	ttccggttat	1620
tgcggttcacc	tttaa					1635

<210> 4949

<211> 291

<212> DNA

<213> Enterobacter cloacae

<220>

<221> unsure

<222> (69)

<400> 4949

aacgcttcag	tgctgcaccc	agcctttaac	gaagggcatt	ggttgttcat	tgcagagcag	60
gataaaccgnt	acattgaagt	ggtctgtatt	ctctcttttag	cttcagaaaag	cggagagcag	120
catattgatg	tttttattaa	tatgttcgaa	gacccgattg	atgatgttat	ttcacgaaac	180
attgaaacca	aaacctttgc	gacgctttat	aaatacattg	aacgtatacc	ttttactccg	240
ggtgtaaaga	aagaattcct	gagcagtatt	gagaacatca	attttagtta	a	291

<210> 4950

<211> 333

<212> DNA

<213> Enterobacter cloacae

<400> 4950

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gatcatgtcc	agcggcatgg	tgctttatct	gagggttatgc	atattgttga	atccgaatgc	120
gatattcccc	gcggcatccg	ggtagcagca	tgcattttcac	gggttatcgg	tgacgttacg	180
ggcaatatct	ctcgtgggtg	gctggaaaca	ccgaagcgta	tggctgagcg	aggagttaag	240
tgggcgacga	gtctgcctga	ggggctttac	tttaacatcc	aggggaacgc	acatgcgaaa	300
gtaagccggg	ttattcgtaa	tgtgactaat	tga			333

<210> 4951

<211> 801

<212> DNA

<213> Enterobacter cloacae

<400> 4951

ctgtcagtga	aagcgattat	aaaacccaaa	acgccacttt	ctcatacgct	ggtctaccgg	60
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aaaccgcctta	tggccccgct	gaaaaattcac	tcaacgcttc	cgggttattgc	gttcaccttt	180
aatggcgcag	acgcagaacg	aaaactgggt	aaagggtctg	agaacctacg	cataagcggt	240
actgatgcct	ctgggggatgc	ttccctgata	tcgcttcagc	tcgctgggtg	acctaaactct	300
gaaaagggtca	cccttgcat	cacgcccgtc	tccaaggatg	tctttattcc	tgaatacccc	360

agaatcttcc	ccaatactga	cgaatcgagg	cagatgtatc	atctggaggc	tctggctatt	420
gacgaatcag	gtaaccggac	cactaaaacg	cttaatttta	cctaccagcc	agctaacctg	480
attatgctgg	ataatctcaa	gacgctggcc	acagccgtag	cactgaaagc	aacggacaac	540
acgcgcctgg	ccatcatccg	aaccagtggt	ttgcgtcgtc	aggacgggtc	tatcattacc	600
ggacagttaa	acggaacct	gactgttcag	aaaaacgccc	agttcggcgt	tacggttgcc	660
ggagttagcg	tccagcctgg	tgaaactaaa	tcgctgtcac	tgatcttgg	taatggtgaa	720
gagcgcacat	atcccgttac	tcccgcgtga	agtggtcaat	ctggcacggc	cacatttact	780
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<210> 4952

<211> 453

<212> DNA

<213> Enterobacter cloacae

<400> 4952

catgaatatg	agcggagccg	ggttatgtct	aataatactg	aagtcattag	ctgtgattta	60
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aactttcgaa	agggagcttt	cttacatgca	aaaattttct	ctagccaggc	cacgcgagcg	180
actgatattt	ccattcaatt	actcacggat	cgtgttttcag	gtgaaatgaa	ctacgtaata	240
gtaattggca	ggcacgaagg	actcctgcaa	agcgaagcaa	ttgacccaaa	cgctgataag	300
caataccggg	aaaaccgtta	ttctcgccat	tttatctcag	taaccgatgc	caataccaaa	360
gccctgaaaa	aaacctgcaa	ggtaatgaaa	acatatatca	aagagcaggc	atttaagcct	420
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<210> 4953

<211> 648

<212> DNA

<213> Enterobacter cloacae

<400> 4953

gttcagcgta	acaacattac	tggaattttg	gttgccctga	tgaagagctg	cttttctgat	60
ttacccgta	aagacggcac	gtccggaacc	tggaactcgg	acacattcga	aattaccgca	120
gataaggcga	tgagcctcgc	ccttcgtgcc	gagtatacag	gtaatacaga	cgagtttatc	180
ccgcccggta	gatatcggcg	tttgcccaac	ggctgggatg	tggtgatgtc	caataccccc	240
atggagatca	gaacctgcc	ggatttttta	gagcgagcca	ccgggcgcgt	gtcatttaat	300
ggtcttggtc	tggggatggt	gcttcacgcc	attcttcaaa	aagaagatgt	aacctatgta	360
acagtaattg	aaaaagaaca	ggacgttatt	aacctcgttg	cggcctcgtt	tgcaaacgat	420
cctcgcgttg	aaattatcca	tgctgatgca	atgatgtatt	gcccaccagc	aggcgtcacg	480
tacaacgcat	gctggcacga	catatggcca	gacttogcaa	cagctaacct	ctcacagatg	540
gataagctgg	aaattaagta	ccgggacatc	tgtgaatggc	agggctcgtg	gggcagggag	600
gagtgtgagc	aaaagcacat	tgagtttcaa	aatcttgggg	ctgattga		648

<210> 4954

<211> 390

<212> DNA

<213> Enterobacter cloacae

<400> 4954

aattctcagg	gtggcatccg	ctattggcca	gccaatgagc	ttctctgatg	gcaacctcgc	60
gttttagccc	gaacctggc	gacgcctttt	aaaccggcgt	cattcttttt	acgagcaaca	120
gacggagaaa	aaatgaatct	gaacgaacga	agcacgagcg	cagcaacgcc	agatttgagc	180
cgactttatc	tcatttccgg	gcgcattatg	tttgatgatg	atgatcaggc	ctacctggtc	240
gaagccgact	cccttggtga	tgacagaggag	gctttccggc	atcatattgc	tgacagtgcc	300
gacgacttag	aaaaggtgat	tatagtttcc	tctacaagtt	tcgcttcagc	tcacagcagt	360
cgcgtaattt	gtcggcctgc	cgtgaagtaa				390

<210> 4955

<211> 240

<212> DNA

<213> Enterobacter cloacae

<400> 4955
aacaatgagat taacctatga acaccagcct acattttggg atttcagggtc tacacggtat 60
acatcattct gtttaataaaa ccatcagatg attaatgaga gaatgaacac catgtacacc 120
ctgtgtatac ctgaaaacaa ggtatacatg gcttattata ctgatttata tataaattat 180
ttactcgatg tataccatgt atacctttct ccatatttat ctgaacttca ttctttatga 240

<210> 4956

<211> 222

<212> DNA

<213> Enterobacter cloacae

<400> 4956
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gagagacgag gcaatcctcc attccaattt aggccttgatc cagagcttcg agagatgatg 120
gaacgagcgc aacagcaaga tggatgatgag tctctagccg catggcttaa gagaattatt 180
cgcaaggaac tccagcagcg tggatcgag ccaaagggct ga 222

<210> 4957

<211> 288

<212> DNA

<213> Enterobacter cloacae

<400> 4957
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ggtgaaagtc agggagggtca ggccatgacc gctatttata atctgggtcg ctgtagcgat 120
ggcaaaaccg tattcagttt tccggccggc ggccgctatc tggatggacac gtcgaacggg 180
ttacagtcga tgcgccccct tatggacaac gagatacttt tcacagtggg gagtgccgcg 240
cgctttctga agaaaattgg ttatcaggta atcccggcag cgtcgtga 288

<210> 4958

<211> 297

<212> DNA

<213> Enterobacter cloacae

<400> 4958
cccggcaatc acccgaactt atctccagct ggggagcaag gccgaggcta tccagacacg 60
cctcgctatg gaggtaaacg catgaaaaag ccaactcaaa acgaatccat tgccatgctg 120
acgaccagcg caggccaggc gctggaatac agccgtcagg cgtttgccgt tctcgatatg 180
tgatagata cactggcgcc ggaatgatga atggaaagct ttcgtgtcgc gccgggtcac 240
agcctgggtca gtcaggcatc ggaatatctg gtgaaagtca gggagggtcag gccatga 297

<210> 4959

<211> 240

<212> DNA

<213> Enterobacter cloacae

<400> 4959
atcgcaatta actgctctat tgttgcgatt aatggaattt taacgattgc tattacaggg 60
ggcatcatga ccaagggtta cgttaagccc gttctgctga acagggagca gattcaggct 120
ctgaaaacca ttcaggagag ggagcgccag aagtcgggca tggggatcgc gccgtcaatc 180
catgctgttg cgcgcaaggt atttgatgag ggactatcaa aaatggaggc tggccagtga 240

<210> 4960

<211> 1434

<212> DNA

<213> Enterobacter cloacae

<400> 4960
aggaaaatgg cgatgaataa aaaggcggaa agacgcgggg atttttaccg gccagagagc 60
atgcttaatc agccctttgg ctcgatacca cgtgctgga gttccttgag aataattctc 120
ttaagccatg cggctagaga ctcatcacca tcttgctgtt gcgctcgttc catcatctct 180

cgaagctctg	gatcaagcct	aaattggaat	ggaggattgc	ctcgtctctc	gtttttgtgt	240
gttgacacgt	caattacacc	cgatgtaatg	tgtttatgtg	tgatgacaca	ttacacacag	300
gaaatgaaaa	agacaacgcc	ccgaagtgcg	ggaacacttt	cagggcgtct	aacccaaacg	360
ttagttgagg	taacattatg	gcttgcaacta	agtctaccca	aacacgccct	gaatttacat	420
ggcgttttct	cacottgggt	gaattcacaa	atcagatcgt	caatgttact	gcttccaccg	480
agcgcgaagc	ccgcgaaaaa	acgccagaag	gatgtgtctg	tattctggcg	tgctgatttc	540
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cgcggcaatg	tggtaaaagc	cactaccacg	aagggcaccc	gcaccatgac	ccccgtttac	660
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aaagcggcgg	aagccagagc	aacccggaag	gggatcgaga	ttgttcgccca	gcagcgcaag	900
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gacgagctgg	ccgcggcat	gacggaagaa	gaacaggcga	tcgtgtttga	gctgggtggca	1020
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gaacgtatgg	agcgaatct	tatcggtgac	gacctggtat	tttcccgag	ccagattgaa	1140
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cacaacgtaa	tggtgtgggt	taccgcgta	gtaaacaac	gtctgcgcct	gagcgcctac	1260
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gtcgcctctg	aaatgctcgg	gcacagtaac	ccggcaatca	cccgaactta	tctccagctg	1380
gggagcaagg	ccgcggctat	ccagacacgc	ctcgtctatgg	aggtaaaccg	atga	1434

<210> 4961

<211> 372

<212> DNA

<213> Enterobacter cloacae

<400> 4961

acgcaaaacg	aaaaaaaagc	cgcaatcagc	aagaagctga	gtgcggcttt	cgctgatgaa	60
ttttacttat	ggcaggcggg	aaatctctct	tgcatagca	gccgactcct	gtgccatcc	120
ctgcgcaagt	actttcacca	tttcgtaata	gccatcttct	tgctgcttga	gttcaagatg	180
aaaaggacgc	ttaatcagct	gacctggtg	attcagcagc	cactccccgc	tgataacaac	240
ggcaccatca	tagcggccat	ggaatcccg	cacgttaaca	ttcagagtgt	cctgatcgt	300
tcccagaggc	tgcgaggcaa	cgacccaacc	ggggagctgg	ctgctcagat	tcgccaccag	360
cgtattgcgt	ag					372

<210> 4962

<211> 297

<212> DNA

<213> Enterobacter cloacae

<400> 4962

aatcgaagg	acgcagctcg	ctgcgttcgg	tactgtacag	gtatattaat	gagcagacga	60
aagtttttaa	tattgtggca	tatttatgcg	ttttcatatc	tgtgcatatt	tattgcgttt	120
tttgccgctg	tgccagaagt	aaagctgttc	gattacctgt	caattaaata	cggattttatt	180
gatattgaac	ggtgggatat	ctattactcg	atttttgcga	tgtcaacaac	agtaataata	240
aacttcttgt	ttattttatt	aactttccgc	tttacttcta	aaacccaaaa	gaaatga	297

<210> 4963

<211> 213

<212> DNA

<213> Enterobacter cloacae

<400> 4963

agcataaacg	agccggaatt	tatgggggtt	gccgaccacc	atgaatcttc	gtttgaacca	60
ccgtctcccg	taaaagaacc	cgatatacac	gttattcttg	atggaaagga	gcgagctaatt	120
gtgactgtga	catcagggtt	agaagtcgaa	ttactggaaa	ttccggtcgc	cgtaatatca	180
atgattgttg	agccactcat	agttgcccat	tga			213

<210> 4964

<211> 234

<212> DNA

<213> Enterobacter cloacae

<400> 4964

cccacggtaa	tcgtcaagcg	agatattgat	aaggcccttt	ctcaacttttt	cagtaatatc	60
cgtatcgctt	accgatataa	aaaaattggg	gagccacggc	tgctctcctg	tgtttatgcg	120
cgaatcattc	actcccataa	ttgcgtagcc	tcaactattg	gctcggacga	tattttctggc	180
aaaacaattt	ctttacctgc	ggggaagact	gcgcacatat	cgactactcc	gtaa	234

<210> 4965

<211> 192

<212> DNA

<213> Enterobacter cloacae

<400> 4965

catcaggatg	atcctgggtg	cagtgaaaat	acgaaatcaa	cacgttggtg	tcattaccgc	60
cttgccgcag	gaaagctata	tataaacgtc	gaattcgcgc	ctaaatcacc	atgtcagagt	120
gttattatca	cttatcgtat	taataacgat	tacaccggtg	aacaattcgc	ggaattactt	180
caggcggcat	aa					192

<210> 4966

<211> 495

<212> DNA

<213> Enterobacter cloacae

<400> 4966

agctggcctg	cgcactgcac	ctggcgggtc	gggcgctatg	tacgatattc	cggggtaaaa	60
atggctgaaa	gtgaaacaga	tggcagcagc	gatgtgatga	tgggcctcgg	cgaatcattc	120
atcrttttga	tatcaacggt	cgcgtataac	tctctgcagc	gttctgatga	atggcgatgg	180
gttgagcaga	caaggttcgg	aaaaaatgac	tcgctacagt	gcaccggcag	accgaaaccg	240
acgatcacac	ttgctggcaa	aacctatgcg	ttatttcttg	acggtgcagg	cgtcgggcag	300
attgagctac	tgcgccagct	ggggaacaca	tacgagccgc	agcagctcgt	catgggtacg	360
ggtgaagtga	tgggctactg	gacgataacg	gcgctctctg	agaaccagac	atcgtttctc	420
gcgaagggag	cgccaaaagt	gcaggagttt	tcgttgtcgc	ttaaatacta	cggagaaaacg	480
ctgacagcat	cataa					495

<210> 4967

<211> 312

<212> DNA

<213> Enterobacter cloacae

<400> 4967

ttattattga	ggtttaaaat	gacagattca	ttacttgaaa	caatcgaaat	ccctttatct	60
cgtccatatg	aaattgacgg	cgtggcgcat	gataaattaa	ctatgttcga	gccaaaactg	120
cgcgataaaa	ttctctacag	taaagataaa	gggacggagg	atgaaaaaag	cgctcgcattg	180
attgcacgct	tattaaacgt	aaaggataacg	gacctaatga	atttgccatc	ctgtgatttt	240
gcgcgcctgg	aggacgcgtt	taatgaaatg	gtaaaggacc	cagtcgatcg	gaacatgaaa	300
ttgttctcat	aa					312

<210> 4968

<211> 1068

<212> DNA

<213> Enterobacter cloacae

<400> 4968

ggctacgcaa	ttatgggagt	gaatgattcg	cgcataaaca	caggagagca	gccgtggctc	60
cccaattttt	ttatatcggt	aggcgatacg	gatattactg	aaaaagttag	aaagggcctt	120
atcaatatct	cgcttgacga	ttacggtggg	tcaaaacaagc	aaacggatca	gattaaagtc	180
gcgatagtgt	cagaatcgct	gcgtataaccg	gccagggggcg	tcaaagttag	cctcggggctt	240
gggttcggta	ctcagatcgt	taataaggcg	gtgtacgtcg	ttgaaggcgg	ctcaagcggg	300
ggcgagccgc	gcatagtcga	attcactgcg	aaagccgccc	caatgaacag	cgcaaagggc	360

ctgagcactg	tgcagagcaa	aaagaccccg	agctggaccg	gtaacaccct	cggcgacatt	420
cttgcaaaag	tagcaaacga	caacgggctt	acggcgcggtg	tgtctgcgca	gttcgcgggg	480
aaagtcattg	agcaattaga	tcaggttggc	gagtcctgatg	cgaacctggg	ttcccgaatt	540
gctgaccgct	tcgatgctgt	cagtaaagtc	gccgggtggat	actggatggt	tttgccccgc	600
ggcgcaggtg	agtctgcgag	cgggaagccg	cttaaaccagt	atacgcttgt	cgggactgga	660
aactcgcagt	ggaactattc	gagaaacggg	cgcagcgggtg	acagcgggtga	caatagcgac	720
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aaagagctgc	gttcgggcag	tgggtgagccg	gtgatcgagg	ccccgtttgt	cgaaccctcg	840
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acgatgtcgc	actcgatgcc	agccactcag	gatctgctct	cgctcactgc	tgaatgcaaa	960
atcacgacaa	aagggttttg	ccccgacgaa	gaccggagct	ggacgatcaa	cacgctgaac	1020
atgacgctcg	gtgagagcgg	cttttcagta	cgactacagc	tggaataa		1068

<210> 4969

<211> 198

<212> DNA

<213> Enterobacter cloacae

<400> 4969

tgtcacagtc	acattagctc	gctcctttcc	atcaagaata	acgtgtatat	cgggttcttt	60
tacgggagac	ggtgggttcaa	acgaagattc	atgggtggctg	gcaacccccca	taaattccgg	120
ctcgtttatg	cttcatacgc	gaaacatgaa	cgggacattt	tcttttatta	taaaaggagt	180
ctgagtgttt	tatttttag					198

<210> 4970

<211> 282

<212> DNA

<213> Enterobacter cloacae

<400> 4970

gggttggtcg	cggaaggcca	tagcagttac	ctcatcatca	gaaatataag	atgcatttta	60
aatgcatctt	taagtggata	ctataaccct	ttagaggcaa	gggtgaaaac	gagaaaggga	120
tcacaaaaaa	agcatgcttt	taacttgctg	attgaaatgca	gaaaagggct	ttcgaaagtt	180
tttaaagggtg	gagaaacagt	aaacaacccg	ccgcgcgtgc	cgatagatac	aggtcagaca	240
ttacctgtat	ataaaaaagg	caacgcattg	ttaaactgat	aa		282

<210> 4971

<211> 207

<212> DNA

<213> Enterobacter cloacae

<400> 4971

agaaacagca	ataaacagac	ggcgtttcaa	cggtatatcc	tcaggtcagt	aaaaatcgat	60
gaccttttta	cgggagttct	gatgtcggtt	cctgccttaa	ttgcaaaaaa	atgtgacaga	120
acgcagattt	tttcggaaca	aatctcgcaa	atttcttgcc	tgacgggtgct	ttttgttcgg	180
actgctcacc	ccaatcgttt	accatag				207

<210> 4972

<211> 243

<212> DNA

<213> Enterobacter cloacae

<400> 4972

cgaagagctt	ccgcaacccg	gttcctcagt	acgaagacgt	cgcgtaagac	tgcgtcgggt	60
ggcggctacg	tcttaccgga	cctaaaatacc	ccgcaggccc	gcgtaagcga	agcgccatcg	120
ggcaaaaaaa	aagccggaga	catcgctcc	ggcttttttg	taccgctat	tcagacaatc	180
tcttgccgat	actggaacag	cgctttcagc	agcgctgct	tctcagcatt	cccttcatac	240
tga						243

<210> 4973

<211> 213

<212> DNA

<213> *Enterobacter cloacae*

<400> 4973

tcattggaaca	aaaaagtcgg	gcgcgcgga	gagtcagaca	ccagtaatct	catcctgtta	60
aaagttagacg	tctctatggt	aaacgattgg	ggtgagcagt	ccgaacaaaa	agcaccgtca	120
ggcaagaaat	ttgcgagatt	tggtccgaaa	aaatctgcgt	tctgtcacat	ttttttgcaa	180
ttaaggcagg	taacgacatc	agaactcccg	taa			213

<210> 4974

<211> 225

<212> DNA

<213> *Enterobacter cloacae*

<400> 4974

gcatttataa	tgcaaaaatt	cccgttcaaa	ggcattaatc	tttgccctgaa	tgaggggatt	60
aatggcacat	tagcaacacc	ccgtcgctgt	aaaaatctcg	tattaagaca	gtttgttgag	120
gacagatatg	aaaaaactgg	tggtgtcact	ttctctggta	ctggcttttt	ccagcgccac	180
cgcggcattc	gcagcaattc	cgcagaaaat	tcgtattgga	actga		225

<210> 4975

<211> 204

<212> DNA

<213> *Enterobacter cloacae*

<400> 4975

gacaatatgg	agcgcaacgc	ccatcgcttg	acgttgcatc	cacctgcggg	agtaatatgg	60
cacctaacat	ggtcggagtt	tattgacttc	gctcaattaa	aatgtcgttt	tgaagccgac	120
tctgcctcag	aaaagcgtaa	atttacagcc	atttactacg	atgcaaccac	catgcaacac	180
ccccaatcaa	aaccactaac	atga				204

<210> 4976

<211> 339

<212> DNA

<213> *Enterobacter cloacae*

<400> 4976

tttaattggat	taaccgggaa	tatgctgatg	tctgtgaata	ctgaaaccgc	ctccgcgcag	60
gggcagacca	ccgtactgga	aaaagagggc	gtttacgcoct	ccctgtttga	aaaaatcaac	120
ctgaccccg	cctccagcct	gggggatatc	aatgcgtttc	tggtatgacg	cgcgctttct	180
gacgctccg	cgggtgaacg	cctgacggcg	gcgatgcagg	tggttatgga	ctgcatccgc	240
aaatccgggt	accagtgttg	tcgcagtggg	atggcagatg	atgcatgcgc	cagattcggc	300
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<210> 4977

<211> 654

<212> DNA

<213> *Enterobacter cloacae*

<400> 4977

cggcgccgat	gcaggtgttt	atggactgca	tccgcaaate	cggttaccag	tgtrgtcgca	60
gtgggatggc	agatgatgca	tgcgccagat	tccggcgaaa	tgagctggc	cgcgtccctg	120
gctcctatac	ctgaaggact	ctctacagca	cagttgcagg	cgctgcaaca	aacgtcaccg	180
ccacctgaac	cggggatcag	taagacacag	cagatgttag	cgcagctttt	acatctgaaa	240
ccagactggg	cagtaagcta	cggcgaccgt	ctgggtgcagc	aggcgctgac	gctgtggcct	300
gaagaggcca	aatcaactgg	gcaacagtgg	cacacgcaga	ttagcgttgc	cgggcttgca	360
gagtcagatc	tgaatggctg	gcatcagggg	atgacgcagt	tacagcagtt	gacgaacagg	420
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gtgtttgcca	tgctgcagtc	cttcagccat	accgttccgc	ttgaggagca	gcttcgtctg	540
ctttccattt	taoctgcggg	gcaacccctg	tcagcagcgc	agctaaagca	gaccgaacag	600
catcttcagc	agttgattgc	cagctatgct	ctgctgaagc	acaaaaaga	ataa	654

<210> 4978
 <211> 324
 <212> DNA
 <213> Enterobacter cloacae

<400> 4978
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 ctgcatagca caattgattc gtacgaagcc gacttcatag tcggcttttt ttgacctcct 120
 gattatctgc gtctaccctt taggggtcag caccctaata tggaggaaaa gatgagtatt 180
 ctacttgccc tgcaacgcct gaacacctgg cagtcggatc cggtgccac cgatccgacg 240
 ccgatacccg atcctgtccc acgtccgcag ccgatgccgg atccgccgcc cgatgaagaa 300
 ccgattaaat tgtcgcatcg ttag 324

<210> 4979
 <211> 534
 <212> DNA
 <213> Enterobacter cloacae

<400> 4979
 agcaccacaaa agaataatga gactggcgaa aaacacggag ttgacatgtc agcaagagag 60
 cgttttttta agaaagtga acagagtatc ggggacaaac cgatctatgt taatacggct 120
 gaggcgaag tcagggcggt ttgtgagcgg atggaggatc ttgcgcagca aatcattaca 180
 tggtttgaag gttctgggtat tgaaatatat ttatctaaaa aacatatcac cgatttaagt 240
 acggttggct acagccttag tagcgggtata tgtcgttatg ctattacgac gatcattttg 300
 caaaatgggg atcgagcgt caccattatg ccagaacagg tgatcagggg gtcggagaag 360
 ggggtgtgtga cgatgagtat taatgtcccc gatagtctgt cgggggagag gatattccat 420
 ttaagcatgg cgctgaaac aggcgtggtat attcgtcgcg ggcataaaag tgcaaaagag 480
 aatattctca tgactgagga ctgttttttc caggctatcg actgtctggc ctga 534

<210> 4980
 <211> 309
 <212> DNA
 <213> Enterobacter cloacae

<400> 4980
 agtaaatatc cgtttaaatc ctggaagatt tttgacctga actgtgtaaa aatgagcaag 60
 ctcaattttc gtagggtgaa taaaaggaga aaaattgatg agtaccgatc tgaagttttc 120
 gctgtttacc accattggtt ttcttgctct gattgttgcc ggtgggttaa ccgctgcaat 180
 gcaactgattc aggcggaggg agaaccttct ccctctcttg ccgctattgt tacctctccg 240
 gcaaaaatct tttgccaaaa tgtaacttct tcattttttg tgattgatgt catgcttttg 300
 acttcttag 309

<210> 4981
 <211> 231
 <212> DNA
 <213> Enterobacter cloacae

<400> 4981
 catcatgcta aagatccatc actacaggag ataaaaatga aagcgatttc attcgtagaa 60
 gcgaaagaca ttattggcgg cgcgttaaac ccgttcgctg gtctgggttaa aggtgcacag 120
 ctgggttacg acaactggcg cagcatcatg ggcattggtt gcggtgtggt tggcggagtt 180
 ctgggtggcg caatgggctt cctgggcgcg ctgggttggt gctacaacta a 231

<210> 4982
 <211> 489
 <212> DNA
 <213> Enterobacter cloacae

<400> 4982
 aatatgtcaa ggactaaaat gagtgtactg ttcagtatcg tactggcgct gtctgtcatc 60

gcgttggtat	ggatctat	taccagaacg	caggatgagg	ggtttggctg	ccagtcagat	120
accatttcot	ggaaaaccta	ttctacgggt	gagtcaaccg	atatgtcgct	aaccacgctt	180
ttcctgttta	acaacaaaga	tggtgtgacg	gttattcata	aaggcgtgct	caagaaagaa	240
ggcaaaagct	acctgattga	ccgaaattac	acgctcatcg	tggaagaagt	cgatggaagc	300
aatatctttt	atattaagga	taaaaagctg	aataaatctg	aagatgatgc	ggcgccggat	360
ggcgttgtaa	acgaaatgtt	acttgataat	atcaacttct	tctatattac	cagcgtaaaa	420
aaacatgcgt	ggttaattaa	ggggctgggt	ttgcctgtaa	tgatgtgtgt	ggctgtcccg	480
acgtcctga						489

<210> 4983

<211> 219

<212> DNA

<213> Enterobacter cloacae

<400> 4983

ctacaactaa	ttcacgttaa	caggaaaagt	atcatgcaag	ttatcgattt	caaaaaagca	60
caggccatca	tcggtgggtg	ggatccgttt	gctgccgcta	ttcagggcgc	aagcgcgggc	120
tataacgcgg	gcagccagat	gttaggcgcg	ctgggcggca	ccatcggcgg	cgtattcggc	180
ctgggtggcg	gcttcacg	cggtttcttc	agcgccaa			219

<210> 4984

<211> 234

<212> DNA

<213> Enterobacter cloacae

<400> 4984

attttacgc	gtaattcttc	agcgcgggat	ttatcaatat	ccatcacgct	gacgcgccag	60
aaggccccca	tggttttccc	ttccagcacc	gtcgcgcgcg	gtgcgtcgat	ttttgcgggc	120
tgtgtggaag	agtcacacgc	ggtcaggagt	aaaaaagtcg	ccagaacgct	ggcgcgtaaa	180
aaagtcatat	ccattgggta	ttatcctcat	gccagggcgg	caagagtaca	ctaa	234

<210> 4985

<211> 273

<212> DNA

<213> Enterobacter cloacae

<400> 4985

cgttcccacg	gagtggcaat	ctactcccat	gaaaaatata	tgtcaacgga	cccgggggca	60
gaaagcagca	ttctcagcgc	agcgcaacgc	attattgtga	gctgccgcaa	agaaagcaga	120
aaagcagaag	aaacgcagaa	aggaaagtca	tgccccctct	ctgggggaga	aagggttat	180
gcgggaggaa	ctagcgtgac	aggtagcgcc	gggaaacgcg	ttttgccagt	ttctgtaaca	240
gcggctccag	agcgaccgcc	agcatcattc	tga			273

<210> 4986

<211> 249

<212> DNA

<213> Enterobacter cloacae

<400> 4986

ttcaatcttc	atagttctgt	tatcgggcga	tgccttctgt	aacagataat	acaaatccca	60
tgccaaactt	ttatcttatt	gattttactc	aatgtgattg	atatttatcc	atccagcggc	120
tattctcacc	tggtgaatat	cactaaggag	tggttaattt	catcatggct	gaatataaag	180
ataatttgct	tggtgaagcc	aacagcttcc	tggaagtgtc	tgaacagggt	tcgcgcctcg	240
cgccgctga						249

<210> 4987

<211> 342

<212> DNA

<213> Enterobacter cloacae

<400> 4987

aaacctttgc	gcccttcaac	agccacttcg	ctcatgtatg	tgcgctggt	gccgtattcg	60
ccaccactg	acagccctg	gaacagacgt	gccagcaaca	gcaacgccgg	tgcccatgtt	120
ccgattgtgt	catatccggg	caagcaggca	atcaccagcg	agccgacgca	catcatgcac	180
acagagatga	gcatggatgt	cttgccgccct	ttcctgtccg	cgatcctgcc	gaacagccat	240
ccgccaatgg	gacgcacag	gaacccggcg	gcaaaaacgc	ctgcggtttg	cagaagctgc	300
gttggtggtg	tccctgatgg	gaaaaagata	tgcgcaaagt	ag		342

<210> 4988

<211> 477

<212> DNA

<213> Enterobacter cloacae

<400> 4988

aacaatttta	acaatgggtg	cgttttgact	cgtccctttg	attatcaaca	agattttgcc	60
aatattaatt	ttcggaaca	tcccgaaacg	tatcaggtgg	gccgggggtg	gcagggcgta	120
ttgatgggtg	agccttataa	aagcgaaatc	cttcacact	ggcgttataa	aaatgctgaa	180
gtcgacggcg	gttcggcaga	agagatctac	gccctctttg	aagagtaccg	caggaataac	240
gattttgtag	gtatggatat	ggcgcgtaaa	ttcatacaga	tggtgatacac	ccgtgcccg	300
cgatacgcca	atcataaagg	cggaaaaaag	tatgatgaga	agcgccaggt	caaaccctc	360
gatcacgac	cagtaaaagc	agaggccgct	gcggtattca	aaacgtgctg	ggataaaatt	420
cgtgccgatg	aagattat	gcagcgaaaa	aaggctcacc	agcaagcgtg	gggataa	477

<210> 4989

<211> 461

<212> DNA

<213> Enterobacter cloacae

<400> 4989

tatagaaaaa	ggaaatgctg	tatgtctgac	aaaaaccatc	atacgacatg	ggaagaattg	60
cttgaggagt	acttcttcgc	ccgaaacctg	cgtgctgcaa	cagaatggag	ctatacgaag	120
gttgtaaaagg	ggttcctgaa	attcatgggt	gcaggcaaaa	ctccattaat	ggttactcat	180
catgaaatac	tgagatggcg	gcgacatgta	ctcagagaaa	agcaacaatc	ggcgagacc	240
tggaacaata	aaattgcaca	tctcagggcc	ctctataact	atgcgatgga	aagtggttta	300
ttgcctgagg	gtagaaatcc	tttcaacaat	tgcaccgtac	agcgggacag	aaagaaaaag	360
cgcacgttaa	cccgtctctc	gctaaccgcg	ctttatctga	taatgcagca	ggctgaaatt	420
gaatccaaca	gaagtgtctc	ccagcggcag	agatcagcgt	c		461

<210> 4990

<211> 243

<212> DNA

<213> Enterobacter cloacae

<400> 4990

gagttttttt	ccccaaaaac	ccaattttcc	cccttggggg	ggggcctgaa	attaggtccc	60
aaggggtatg	gctgttcgcc	atttaaagtg	gtacgcgagc	tgggtttaga	acgtcgtgag	120
acagttcggt	ccatatctgc	cgtgggcgct	ggagaattga	gggggggtgc	tcctagtacg	180
agaggaccgg	agtggacgca	tcactgggtg	tgggttgctc	atgccaatgg	cactgcccgg	240
tag						243

<210> 4991

<211> 198

<212> DNA

<213> Enterobacter cloacae

<220>

<221> unsure

<222> (133)

<400> 4991

ggaataaaaag	cgatgccatt	aagcgcacaa	cagctggcag	ctcaaaaaaa	cctgtcctat	60
gtgctggcag	agaaactggc	gcagctgac	ttagcgggta	aatatgctcc	aggtagcatc	120

ctggccccaag agnccgggaa aagatggagc tgggagatca gtttggcggt agccgtacag 180
ccgttcgcga agcggtaa 198

<210> 4992

<211> 342

<212> DNA

<213> Enterobacter cloacae

<400> 4992

aaaaactcaa	ataatgtaat	cgccaacgga	ggaataatga	atgtacatct	gaaatatgat	60
acgataaagc	actatcactt	tgattggcta	acgcctgctg	gcgactatcc	taattcagcg	120
gttatgctcg	taggtttccg	tgatgggcgc	tggtattattg	ttcaagagtt	cggaatgat	180
tatagctgct	tcgagggcgt	tctgaagaat	ggtgatgac	ttaatcggga	gcctaaattc	240
tattccgact	tagaaagcgt	agcggttgct	gcttttggca	tgatgaagca	gatatatccc	300
cagtaccaag	atagcacgtt	agaagaattc	ctcgtctggat	aa		342

<210> 4993

<211> 408

<212> DNA

<213> Enterobacter cloacae

<400> 4993

gaagacaata	ccaggtcaga	caacaaggtc	gttagcatga	tcgttgggaag	caacggaagc	60
acctttgaaa	aaggtcggca	gcactataaa	atccatcagc	aatgcacaca	aataaactac	120
tggtatctta	aaatgaaagt	gaaagagttg	atcgccatgc	tgaacgaaag	agaccctgag	180
gcaattgttc	tgatttccgg	ctatgaaacg	atcggcggca	cggaagtgcg	agaagctgat	240
ttgctcattg	atatgcagtc	aatatgctta	gaacaggctg	ataatctcac	aggaaaccgt	300
aaagttgttt	cttcgggtgg	tgaagattca	gtttggttag	gctggaaaaga	tgattaccgt	360
acaaaggtgt	ttttagaaga	tgcccaaatt	cctgatcaag	atgaatga		408

<210> 4994

<211> 357

<212> DNA

<213> Enterobacter cloacae

<400> 4994

gttaaaatca	cctataatca	atacctactg	gagcagctca	tggttgacac	ctacctcccc	60
ccgggcttta	aaaaatgcaa	atcatgtcag	caagttaaac	cctttgaaca	gtttggaaaa	120
gagctcaagg	gcaagtttgg	cctcaagagt	aaatgccgag	cgtgtattag	cgagaaaaac	180
aaaacgtacg	cagcaggccc	aggggcccga	gtaaagacgc	aaaataatag	gacctaccag	240
gcagaaaaca	agactgagct	cgcgagaaaa	atgcgcgtta	agcgtgcgaa	agaaaaattt	300
ggtgatcgct	ataattccta	cctcgcttct	ttagagtcca	tgaaaaaact	caaataa	357

<210> 4995

<211> 1461

<212> DNA

<213> Enterobacter cloacae

<400> 4995

aacatgaagg	tactatttga	tggtgtctcg	taogcaacctg	tctgtaatgc	aggggctcgt	60
attggcattg	ccataacaac	gcataatcgc	gctgacgcac	tgaagcgagc	tctggcgagc	120
catcagcagt	ttttaccgca	aggggcgctg	gtggctcgta	tagatgatgg	ttcaaaacct	180
ccagcgggaag	ttttcgaaga	cgtgcagctg	cttcgccatg	aaacatcact	cggcattggt	240
gcttcgaaga	acgccagttt	aaccgcgctg	atggacgcgc	ggtgtgagca	tctattcctt	300
tgggacgatg	acgcctggcc	catogetgat	aactggcact	tgccatacat	cgaatcacc	360
gaaccgcacc	ttgcttacca	gtttctcgat	ctggcaggaa	cgaataagct	gaaggatatg	420
gcgatcctgt	accgggatga	taagcacatc	gcttacaccg	ggcagcgcg	cgtgatgctg	480
tattaccacc	gcagcgctat	cgagaagggt	ggcggtttcg	atcccgttta	ccgtcgccgc	540
atgtacgaac	acagcgacct	cgccctgcgc	atccataatg	ctggcctgac	gacatgggct	600
tacgggtgatg	tggtcggttc	agaaaagctg	atccattctc	tcgatgagca	tgaagccgta	660
gagcgttcgg	taccgcgtcc	cgaccgacag	gcgctggtgg	aacgtaacgt	gaagatccac	720

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aacgaacggc gtgatgccgg gtttactggt tacgctgaat accgccagca gcgcgatgta 780
gttatcacaa cgctgctcac cagtcagcct gaccgcagc gcggcacgaa aatggcggcc 840
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gtggatgaat tactgacggc cccggccgat gttgagctgt atctcgtaac tgacgtgaag 960
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ggcgccgcgg tgggggacat gctggcggtc ggtattgtcg ctcatctatt cgcaggaaaa 1380
gtgattaccg gacctcagg gcacaccggt tttaaaactg atgggatcgg aaaagataat 1440
gcctggtgga aacataaata g

```

<210> 4996

<211> 813

<212> DNA

<213> Enterobacter cloacae

<400> 4996

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gcgtcgatcc aactcaatca attttcctat caatacgaca acgaattcct ttttttaacc 60
tactcgata ctccataccg tttgaagagt gtagactctg gacgttgtgc attgactaat 120
ccattttcaa tttcttttaa tgtatggagt agagtaattg gaattctcac tttcgatata 180
acttgccac attgcctgag ggaaaatgca gtccctggaag gatgggcca actgcgaata 240
aacgcggctc ctttagttaa tgttgcgttt agttgtcgaa gctgctttca agctgggata 300
gctatggtga aaatgaataa tctgtttggt ttttcgccct tgtcaaaatc caagcagaat 360
aaagatgtaa atgtaatcat tctggaaaac ctggaatatc agttgattga cgttttcccg 420
aaacctatca cgctaagtgc acctgaccac acaccatccc gtgctgctat ggctttcgta 480
gaagcgaaaag acaaccttgg acgaggacgt ttcgacacat ctggttatgt ttgcgcgaaa 540
gtgctggaca ttgcaacaag ggaattatta ggaaatgact caaaagatga aaaattggct 600
aagcgaattt ctatgttgca tggcaagggg ctaattacag accaaatgaa ggaatggcg 660
catatagttc gaattgattc caatggtgct gttcattccg atgaagaatt ctcaaaagaa 720
gatgctcagg agatgattgg ttttaccgaa gtattttctt tatatgcatt cacattgcct 780
gatatggtag acaacaagaa acaaaatcaa taa

```

<210> 4997

<211> 204

<212> DNA

<213> Enterobacter cloacae

<400> 4997

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aaaagccgca caatggcggc tactgtctgt atatcagggg gtaacttcgc ttttaaccgg 60
gttaatgtaa gcattcagcc cgtcagtggg gggacactga cgcactctgg cacggaggaa 120
tggtgatta cctctgataa ggaaatgaaa tgtctttttt gcacaaaaga atgcatctta 180
atcaagggtga taccgttggt gtag

```

<210> 4998

<211> 192

<212> DNA

<213> Enterobacter cloacae

<400> 4998

```

acaatgcgat tttacgcata ctactggttc cttgataaaa caatgaccaa cttgccagaa 60
cggcaaaaga caccggaaat cagactaatc tggacaggag cgctcacatt agcaccgatg 120
gagattttcg caagagccaa cttttgcgtt tacaaattag ttttacttta taacccattc 180
acattgtcct ga

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<210> 4999

<211> 204

<212> DNA

<213> Enterobacter cloacae

<400> 4999
 ggcaggcatt gtccccggat taaaccgacg caccagcgtc gacgtttcag ggtgcttgaa 60
 acgggggtttg aagagagttt cggtgagatt cgcctgcgtc attgcgttgc ctccatggat 120
 acgtcatatg aagaccattg taacgcgtgg cagggtaaaa agaacaacgc ccggcataac 180
 cgggcgtgta aagttacgta ctga 204

<210> 5000

<211> 279

<212> DNA

<213> Enterobacter cloacae

<400> 5000

tcgcgggtcat ccgcatgggc ggatgcggcg cacagcaata cgccagcgct gagtgcgctg 60
 gcgcaaagca gaggtctgac tgataaccga agcggcttca tgacccatgt gattgaaaaa 120
 atcgcctttc cctcatggg gagcgattat tccacgatga acagcggtt gccagtcac 180
 tcttcagga tttccatacc catcagcgac aacatggttg gcgcgatgtc ggaaagcttg 240
 ccgccttcca ctgctttcac tgatttatca cccacataa 279

<210> 5001

<211> 201

<212> DNA

<213> Enterobacter cloacae

<400> 5001

aaaaaccagg acaggagtat acctgtgcgc tgtggcaaat acagccagcg acataaagct 60
 aatctatatt ctgcggcatg ccacgtaaaa aaagcctcaa aatggcctga gaacagcctt 120
 gccccgcgc tttctttgat cttctgcggc tattttatcg attcagctgt agtaaaatta 180
 cgcaaaattt ttgtctcttg a 201

<210> 5002

<211> 642

<212> DNA

<213> Enterobacter cloacae

<400> 5002

gtaatatatt acacattgtc gcgttatgga ggtgagatgg agacgttaac cgtacaggca 60
 tatctgaacg aaacatggac ggatatcgct ctcatcaaat atcctggaag tgaaaaaaat 120
 gactggaata ccacgcagtt agactatctt actgagtatg cgattaattt tctcgactat 180
 gatgattttc acgcagtctc agtcaatcac cctgtatcac tcttttttga tgaccatggc 240
 caaccgggct ggctgcgatt tatcgacgat atcattcccg ccggagcaag ccgcggttac 300
 tggattaatg cgctcgacat cagtgagtta cccgttggcc agcaaaattt cttattgctg 360
 aaatttgcca caatgtcccc tgtggggaat ttgcgcataa aggaatccgt ccagaaatgg 420
 aataaattcg ccagcactaa aacgtttacg gttgcggacg tcatcgatcg tgccggccgat 480
 tttctggatt atgccagga aagaggcgcg gcggcggtg gtgcaaccgg tgctggcggt 540
 gaagcgcta aacttttgcg gcgctgtagt gaaactgat ccactctgat cgatacctgg 600
 caaaacgagc cggataaccg gggaccgcta ttatttggtt aa 642

<210> 5003

<211> 183

<212> DNA

<213> Enterobacter cloacae

<400> 5003

aggcgcaact tacgcttact gacgttccgt tttttagtaa cgcgtggcaa tccgcatatt 60
 gttatacatt ttcatatcgg gaaatttatt ccccaagaca atgagttaat ttcattgatt 120
 catgctaatt atgaattgac tgctacactt acttcgacag acatacgag gagaggcgaa 180
 tga 183

<210> 5004

<211> 207

<212> DNA

<213> *Enterobacter cloacae*

<400> 5004

cctgatagcg gcttcaatca gctgctggcg ggtcttttga gcctcttctt tctttttgcg	60
cgccattacc tgctactcgt tacttacaag attgatacgt tatcaaagga tattgccgtg	120
gtcgtgtcag acaaagtatt aaccaaatac cgtgttagtt ttgcacaaaa aaagtcaatt	180
cgtttaattt ataaacctcg tgaataa	207

<210> 5005

<211> 186

<212> DNA

<213> *Enterobacter cloacae*

<400> 5005

gcgaagcgcc atccggcaaa aaagcctggc cctcaccgcg agggcttttt tatctccgcc	60
ttgctgaaaa tagcggcgat cgcagacaaa atcataacct tggattcaca tgcattctac	120
actctcgaac tattttcgtc atggttaggg ttaagcgttg ctgctggcac agtcacggca	180
atataa	186

<210> 5006

<211> 222

<212> DNA

<213> *Enterobacter cloacae*

<400> 5006

tctgctacca gtcccattag aaagcatggc atcaggggtg taaggctgaa ccctaaccac	60
tcgcgccatt taccagcggc tttatcggct attacgggtg atagcaaatc aatcaacgct	120
gtgaagattc ctattatcat tgtgaagata gtgaagagca ttgttagcga catccaacta	180
acagagccgc tacagtcccc caaaaagaga gacaaaagat ga	222

<210> 5007

<211> 537

<212> DNA

<213> *Enterobacter cloacae*

<400> 5007

caaaaagcct tacggcaacc tggttgccgt aagctgcaag aatgcaataa ggcttataat	60
atgaaacaac ttactttcaa cgacctacgc aagcaaagcg cacaagccgc aaattccccc	120
cgtttacgtg cccatcataa tttccacct gaattgagcg acccggtgca gcgtctggct	180
attgctatgg aaccgggaac ttatgttcgc cctcatcgcc acccgcatatc ttttgaactg	240
ctgacatccc ttaccggtcg ctttttggta ttgaactttg atgacctggg taacctgacc	300
cagcgcgtcg tgttaggtga ggactgtaaa gtgctggaga tggatgcagg cacctggcat	360
accgtattgt cactggatga aggcggcggt atttttgagg taaaacacgg taggtaccag	420
cctgttgctg atcaagatgc cgccccatgg gccccgcgcg aaaacgagcc gggaactgca	480
gagctgatga aatggtacac acaggcgcaa gtaggtgatg gcggatatcc gcggtaa	537

<210> 5008

<211> 393

<212> DNA

<213> *Enterobacter cloacae*

<400> 5008

gacgaggctt caatgacaag tacacttgac ccatcacaca agcaaattga aatgtggcgc	60
agagctaccg gttccgaagg tggactcaac gaataccgca actgggttct ggaaaatagt	120
atgagattta cagcatacgg tatccatacc gttatcgtcg aaggtagagg gaagcatata	180
acagcgcttg atgatgttac cctctgtaac gattggcgca agcttaaaaag agaaaacaat	240
aggctttacg cagcaaatga aaaaatttgc tctggctggc gtgggttttg gttgcgtttg	300
ttaggaataa cactgccatg cagaaaaccg gtcattctac tgggggtaga tgggaagaat	360
caaatgatg ccgtgaaagg ggctgatttg taa	393

<210> 5009
 <211> 366
 <212> DNA
 <213> *Enterobacter cloacae*

<400> 5009
 ttttcaggcg agcccaccgt tcttagaaaag ctgttctatg ggtatgtaag gaagataatg 60
 ttctctgaac gctcagtaca cttaatcacc tcttgtacaa agggcaagaa tcatcagggc 120
 caggtctggc cgacattgga catagatcca aaacaaaccc cggacgacgc agcatatgcc 180
 tggagtaaca ttgtagacga cgccagaagt aatcaggcgg taccggcatt gtccttgtat 240
 tcaggtaatc actggtctac ggcaaaggaa attttaaact caaccagaaa tctggagttg 300
 tggataatct ctgccgggat ggggttttta aatagtcgag atcgggccct tcttatgagg 360
 ttttga 366

<210> 5010
 <211> 234
 <212> DNA
 <213> *Enterobacter cloacae*

<400> 5010
 gtatgtcacg ccactaataa tggttattta acatttatat attcacgcgac tatgtcdata 60
 gtcaggcatg caatacgttc attctcttta tcccgcgcca cttcaacct catggaggaa 120
 tgcattgtac gtttaagcct gattcgccct gggttgttta ttgcgctcgc cattatogcc 180
 agcacagcaa tcgggtttatt tacctatgtg gtcgtctcgg ccctggcaga atag 234

<210> 5011
 <211> 972
 <212> DNA
 <213> *Enterobacter cloacae*

<400> 5011
 acaacaatga atgcgacagg gctgaatatc atcaagacgc tgggctgtat gacggcggtt 60
 acctttttca ccactacaaa cactcgggat cattacgatt atgactatca ctggatcctc 120
 ggttttttta ccttcatttc gaccatcgcc acgcggttgt tttttgtggg tgcaggggat 180
 ctggacgggc aatcccagca cggcacgcgc tggcagctgg ataagatcaa acgcctgggtg 240
 atcgtctttc tgttctgggt aacgattttac tacctgtggg aaccctacca gcgcggatat 300
 ctgatccagc cctgggtcgt gttcgcggtt atcgtgattt acacgtttca cccggtgggtg 360
 gagcggctcg gccagcgacg aatgctcttt tgcgggggtga ttaccgccct gctgcttttc 420
 tcatacgggt acgatttgct gtcggccctc tatectgatg cccacgtcct ttcattgtcg 480
 ccgcagtatc gctgtgggac gtggctgctg ttttatctga caggccagct cttttgcgat 540
 ccgcagatcg cggcgtggat cgcccgcaaa aacgtggtca gggccgcggg gattgcgata 600
 ccgttcattc atctcttcac atggttttac gaacggcaat tcttttttgc gctattttaa 660
 gcagacagaa acgcctttat cctcaccgga tcgcaaatat acattctgat tattgccttg 720
 gtgattgcgg caaatggcgt gcggtttcgc cgcaatgcgg agtttaaaga gtccgtgctg 780
 gccgccatta gcaaaacgat gaccggggtc tatatcatgc actactcggg gtttcacctg 840
 ctgaccgcgc tcattccggg gacgtccctg agcaccaaac ttgctctgat tgtgcttacg 900
 tttgttaacg cggctcctgt ttcgctgctg atcctgtcca acacagtggc caaaaaagtg 960
 atcaccctct aa 972

<210> 5012
 <211> 225
 <212> DNA
 <213> *Enterobacter cloacae*

<400> 5012
 gacacgctac agcggcaata tccgtgcctc ggtatcgtct ctacggtaaa ctatgcaaga 60
 ttacggttca aaactgatgg ttacgggttc tgcaccttta gattaatgac tgagaggatt 120
 aaaggatatc catggctgaa tggagcggcg aatatatcag ccctacgct gagcacggta 180
 agaagagtga gcaagtcaag aaaatcacgg tgtccattcc tctga 225

<210> 5013

<211> 354
 <212> DNA
 <213> Enterobacter cloacae

<400> 5013
 tcaatggcgg cgcgaacggg ctggataagc gccgcgagct gtttaacctg gcgaaatcag 60
 ttctggtatg aggtgaatgt gggatcgcag acaataatcg ggctggccgc actggtcatt 120
 tccgctatcg cggcgctttt tggcctaggc catattcgcg gcaccagcaa agcagaagcc 180
 aaagccgacc agcagcgaac cgaagataac gcagcggcaa tggtcgcagc agccgaacgc 240
 agggtagaaa caacgaaaga ggccagcaat gtacagcaga ctgttaatca tatgcctggc 300
 gacgatgttg atcgcgagct gcgtgacgaa tggaaagcgtc ccggcggttg ttga 354

<210> 5014
 <211> 507
 <212> DNA
 <213> Enterobacter cloacae

<400> 5014
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 ctgcgcgatgc agcacaaatt caaagcctat gttgccgggt tcggttccgg taagacgtgg 120
 gtgggttgtg gcggcatctg taaggggatg tgggagcacc ctaaaatcaa ccagggttat 180
 ttgcgaccga cgtaccgcga gattcgtgac atcttctacc cgacgattga agaggtggcc 240
 tttgactggg gcttgaacgt caaaatcaac gaggggaaca aagaggttca cttctacgag 300
 gggagacgat accgcgggac aaccatctgc cgttcgatgg aaaaaccggc ctcgatagtc 360
 ggcttcaaaa tcggtaacgc gatggtggat gagctggatg tcatggcggc tgctaaagcg 420
 cagcaggcct ggcgaaaaat catcgcccg atgcgttaca agatcgacgg gttgcgtaac 480
 ggtatccctt taactggacc tgggtga 507

<210> 5015
 <211> 930
 <212> DNA
 <213> Enterobacter cloacae

<400> 5015
 acgatgaaag aatgtaaaaa agataggcct cctgagtata aatcgcttag tgttttatta 60
 ttattatctt ccatttttat tgtaatatat attccgggtg ctccactatt aatcttggtt 120
 attcttgttg ttactataaa gaaacaaaaa gcgagaacta aaccacaaga aaatatctat 180
 cactttgtaa aggatatgaa cgcttttggt agtattcttg agtcacgttg tttaatgtcg 240
 ttaacaggag ggcgatgtta tgccacttca atatttaacc ctacacttg gctaagcttg 300
 tttgacactg acaatatata atatgtttta gttatgaagg ggaaggcaac tgatgtcttc 360
 aagcctataa tttagcagcta tcgggaagtt tttctccctt ggaagtgggt gaagtttttt 420
 agaggtgagt atgtcagtaa ggctctgaaa gatttagagt ttaattgcga tgtcaagctc 480
 gtgcgtaatg agtacaaaaga atacaataga tttgtatgcg gcagtcgaaa gagagtgcct 540
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 attcaaaaaa tccttttttg gattggtgat atatttcttt cagtcttagg ttggattgga 660
 attgtatgcg gcaatctgat tttctctggg ttgtgtggtt gcgaatttgt aaactcttta 720
 atgaactaca taagcaaaaa taatgattct ttgcctacgc atttttcaat ttattgggtg 780
 atatacatat cagggtgtttt ttttgcgtga tttttaattg catgcttata tttcatcctg 840
 agaaaaaaat caattacctc gcgtgttgca aggcaaaaaga aaaaatacaa atctaactat 900
 aaatttatgc tttcaatcag tgagaaatga 930

<210> 5016
 <211> 396
 <212> DNA
 <213> Enterobacter cloacae

<400> 5016
 gggggggcga tgtccgatcc attttccggc acggggctgg ccggttttagc tttgaccgga 60
 gccagtgtct acgggtttatt gaccgggaca gactacgggtg ttgttttttg tgcatttgca 120
 ggcgcgctat ttacatcgc gacagcaact gacctgagta tgttgccgcg gctggcctat 180
 ttcgtcgtgt cttatatagt cggcattctt ggatatggctc tggttggttc taaactcgcg 240

tcctggacgg	aatatagcga	taaaccgctg	gatgccatcg	gtgccgtgat	tgtctctgcg	300
ctggccggtc	aaatccttac	gttcctgaac	aagcaggaca	tcggctcgct	ggtggcgctg	360
ataacgcgcc	ggggagggtc	aggtggtact	aatga			396

<210> 5017

<211> 234

<212> DNA

<213> Enterobacter cloacae

<400> 5017

aaacaacgaa	agaggccagc	aatgtacagc	agactgttaa	tcatatgcct	ggcgacgatg	60
ttgatcgcg	gctgcgtgac	gaatggaagc	gtcccggcgg	tggttgatac	cggttgatg	120
tgggtgaagc	caatcttcct	gacggatcaa	gacatcgacg	ttctggaccg	ccagacgaag	180
aaagacatcc	tggcgcataa	caaagcatgg	aaagcaaatt	gcgggaaaaa	ttga	234

<210> 5018

<211> 456

<212> DNA

<213> Enterobacter cloacae

<400> 5018

caaccgatga	aaattcactt	tattacaatc	gccttgctgg	cgacgatttc	ttcgccatcc	60
tacgcagcgt	ttcaggaaaag	agaatacaat	acttggtatc	aaaaagatgc	tgtactctac	120
gacattaccc	agacctcaga	gggattgcct	gtcatgataa	gcattctctca	accggggagg	180
gagtcagcta	atatgctcgt	atcctatatg	tccgatggtg	gctgtggaga	tgagaagggtg	240
cggtttaatg	ctaacgggaa	ggatgtgcct	gcaacttata	cttgtgtatc	agtcggagca	300
gacaggattg	aacactttgc	agtgaatgat	gcaagcaagg	tcaatgagat	ggttaaccac	360
ctcaagtcag	atttcacttt	gttgcttcag	aacgatatac	aagtctgggc	tgctaacata	420
aagacgccta	agtatggttt	agcaccaaaa	ttttaa			456

<210> 5019

<211> 1407

<212> DNA

<213> Enterobacter cloacae

<400> 5019

ctggacctgg	gtgagcgcca	acacattcac	cagcaccacc	tgccaataac	tcattctgtc	60
tcaaaaacaa	ccccgctccg	gcgggggttt	ttattgcoctg	gagaaaaatat	gctttataac	120
actggcacca	tcgccattaa	cggaatatca	gccaccggca	ccggcacgaa	ctggacggca	180
ccggccagcc	agattcgggg	tggccagacg	ttgtttgttc	tttctaacc	ggtacagatg	240
tttcagatca	ccgccatcaa	cagtgcgacg	tcaactgacg	ttacgcctgc	cgctctcag	300
gcgttgagcg	gccagaagta	cggcattctt	gttactgata	gtctctcagt	cgacggcctg	360
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gttcgcctgg	atatgcctga	tgattctgtc	tttaatcagc	ggatgagaca	ggaaccacag	1380
cttgagcctc	attctccagc	tctctga				1407

<210> 5020
 <211> 192
 <212> DNA
 <213> Enterobacter cloacae

<400> 5020
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 aacggtctgc tatacctgct cgccattacg cgactcgggg cagcatcatt gctgctgcat 120
 ggccttatgg ctgcagtcaa cccgcttact gtttcaaggt ctttagccca tccaccagtg 180
 aaaacaatct ga 192

<210> 5021
 <211> 237
 <212> DNA
 <213> Enterobacter cloacae

<400> 5021
 tatcccacgc ttacgcttgt tggtatctgc ctggctgcca ggctatacat gactctgatg 60
 cggagaatgc caactccggg gaacatcaat aaaaagagca acgaaactga gactcctgta 120
 gccctcgctg agagggttt tttttcaaaa aaaagccagc tcggacagaa ctggctgggt 180
 ctacgagtaa gtagggtatta cttcgcactc atttcgacgt gtaccctatt ccttttag 237

<210> 5022
 <211> 276
 <212> DNA
 <213> Enterobacter cloacae

<400> 5022
 ggaatgttaa gtgtcgggct gatccccatc ttccgcccctc gcgtccacta cattgatatt 60
 gatctgaact ggggtcgggt cgtcacatc accatcacgg gccagctctt tgcggagtgt 120
 ttccacctcc agcagccggc ggctcgatttc gatctgctgg agacgctgag cgaactcgct 180
 atccgccagg ccgagccgct tcattaccgc ttcaaacatt cgctcacggc tgatggctgt 240
 gatttcgaca ccattcttgc caaccttcac gcctga 276

<210> 5023
 <211> 228
 <212> DNA
 <213> Enterobacter cloacae

<400> 5023
 gtaaaagcta actccatggt aacgaaaaaa atttgcaatc acctctcaat acattatcag 60
 cattctacag catcaacctt atttttgggtg agcttttttcg aatggcgaac tggctgctat 120
 gtttcgtcca tgatgtctaa taacaaagag tcacttatta aacaaataag cgagtatgcc 180
 aggcttaacg agcaggaaga aatccagttg cgcaagataa tcagctga 228

<210> 5024
 <211> 270
 <212> DNA
 <213> Enterobacter cloacae

<400> 5024
 atgcaaaacg cctctgatta tttttcctgt aaccatatct tcagtitttac cgtgcgaaaa 60
 gtaggcgatc tggacacagt cattgtgtct aatccaataa tatccctctt tcataattca 120
 cctcttaaat tgtttcattt agaagtgtat atgacgattc agaacctggt ggctcgacaaa 180
 acgttttttt taaggatgtg gcgccgggtg cctcccgggtg acttatctct ggctcgtaaaa 240
 gtcgcgtgca tacctgcaca tagcagttaa 270

<210> 5025
 <211> 186
 <212> DNA
 <213> Enterobacter cloacae

<400> 5025

aaaaaaatct	tttttgagca	tcggtttcaa	aatggttttc	cttttatgcc	cggtgccgcc	60
ggggcgggtg	cgttaaatat	acgccatgta	agtaaattaa	tttataacca	tttgattgtc	120
aatacaaaaca	aaaaaacaaa	ccatgtttat	tattttatca	acgatgctat	tttaaagtcc	180
gtctaa						186

<210> 5026

<211> 270

<212> DNA

<213> Enterobacter cloacae

<400> 5026

acagaaatga	cgcatactgc	cgttttctcag	gctaatagtg	ctttgcagct	acccacgggtg	60
gagcatgtct	acgctcttct	gaaagcaa	tgtaaacctg	accgctttga	cgggcgtgac	120
ggacccgtgt	ggggccagga	atactcgtgg	aatctggcaa	aagatcgctt	acaggatctg	180
gagaaatacg	gtaaggcata	tgtctcccg	catgaagacc	gtatggggga	aggatttagt	240
tttggctctg	acctgtta	tattcgctaa				270

<210> 5027

<211> 2433

<212> DNA

<213> Enterobacter cloacae

<400> 5027

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gttcaggccc	cagctcagat	atatgaatcg	gcctttaaag	acacgaacgg	tattgagatc	120
cacgccccgt	cttctcgtct	tatgctta	ccggcatcac	cggtaacttt	gacacttatt	180
tcaggctctg	atcgtttcgt	taatgtcaaa	gtcacgaaag	acactggaac	tgctattctt	240
aatactacga	ctacacggac	gggtgtatca	gaccgactaa	cagctgctga	cggtagtgag	300
ttctacggca	aaaaagtaac	tttgccgtct	ttgggtgaag	gcaaatttgt	cgttcagata	360
aacgtgttag	atctcaatca	gaagcctgta	gcgacctata	actataactg	gctaattgat	420
gtcaccctc	cagcggcaaa	tgctcttacc	gctaatactg	gttctggctc	taccgctggg	480
gacgtgtgga	agcttggatt	agaggcaacg	gggcagtatg	acttcacctc	ttcgggcgta	540
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tacagcacta	cacagatgca	gtatgacgta	tcgggccaaa	agatgtacca	cacttactct	660
aagaattcag	ttaagggaac	cggataacca	gacagcaacc	tggatgaaga	ctttactgca	720
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cagggggata	atcttctgtt	acccgtttat	ccttccgaaa	atgggaaa	tggcacctca	2400
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<210> 5028

<211> 795

<212> DNA

<213> Enterobacter cloacae

<220>

<221> unsure

<222> (635)

<400> 5028

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gaaaagcatc	ggatgtttat	ggcagattta	ggccgcgtgg	tgcccgaa	ttgtggaggt	180
ctggtaaac	gcgtcgtctt	gccaggaaca	gaagttacag	tgctcgatgg	gttaccgctt	240
aatggccagc	cggtacgtta	tctcggaatc	aaagagaaca	tccctcacct	ccttgtagag	300
cctgatgctt	ccttaccttc	gctcgctaaa	aacgtctgga	tgtatgcaga	tectgaaggc	360
tggaagaac	attttggagc	tgaggaagac	tgccctactc	ctgaaatgat	gcagctgttc	420
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ttaggtgtca	tgttcgaaat	cgatcagggt	gtgcntgcct	tacacatcaa	caccggcggg	660
gatatgttgc	tccacattca	ttgcgccc	aacggactcg	ttctgacccc	tgatgcaagc	720
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<210> 5029

<211> 612

<212> DNA

<213> Enterobacter cloacae

<400> 5029

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cgtattgaac	aaatttttga	atttgcogag	ggtagtaacc	caagcgaagc	aatgagtctc	120
agagctgacg	aagttgctgt	actggcacgt	attggaaagg	cagttatgtc	gattgcgcct	180
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ccagaacagc	tacgacgcgc	agcagaactg	gtaatggata	atagccgggc	cgctgaaaca	480
gaagcgatgc	tgatgogtct	ttatgtagaa	tgtgacacag	gtgagcgag	gggcaacggc	540
actcaatctg	gogtagcaat	gccttcttgg	caaaccgttg	aagaggcacg	tgtgttgcta	600
ggggtgaaat	ga					612

<210> 5030

<211> 198

<212> DNA

<213> Enterobacter cloacae

<400> 5030

gcttttccta	aaggctacta	tgttcgtaaa	agtataaaaa	acttctccat	atgggtgctcg	60
aaattacaaa	tctataattt	gcctttcgac	aaaccttatt	gtgcgttcag	gacggaaatc	120
tttctttttg	gaattacatc	tgacatttct	gtggtgtcca	aactggcaac	gattgcaaaa	180
cttataacat	tagcctga					198

<210> 5031

<211> 237

<212> DNA

<213> *Enterobacter cloacae*

<400> 5031

gcgacctcgc	ttagcgagca	ttgcgatggc	atgcatgaca	tgtttaacgt	cagagcgttt	60
aaggaatggg	ggattcataa	cgataacatc	aaaagtttca	tcgggctggg	acccaagaaa	120
gtcggtatgc	accagctcga	ctcctgtgct	aaggacacta	tcgttcttca	ctgcaaggaa	180
tcgctcatcg	ttcaattcga	tcccgtaaat	caatgcatcc	ggagccgcca	gttttaa	237

<210> 5032

<211> 567

<212> DNA

<213> *Enterobacter cloacae*

<400> 5032

cgcacccgcc	cggcgggcac	cgggcataaa	aggaaaacca	ttttgaaacc	gatgctcaaa	60
aaagattttt	tttcagctat	tgaaaaacct	ctcaaagctg	gctttcaacc	tcgcttttac	120
actgtaaca	gtggccgaat	cgggtotcatt	acattcactg	ataaaaaatg	aacaaaacag	180
gtcgaacagg	tttattcctg	cacttcttta	gcccgaata	cttttgga	gcgcttcacc	240
acttggttag	aagaaatttt	tcaaaagcat	aatgaagaaa	aagtagctga	ttccgggttc	300
gaggttggtg	gccgtgtctg	ggataaatg	atgtatacgt	tgcgacccat	ttcagaaatt	360
cgtgccgggg	gggtgctggg	gctggataac	ggtgcacagc	gtacactgga	tgaagtgcaa	420
aaaacggcac	ctgaaacaaa	ccaggtggag	ccaaaggaaa	tctcttctact	tcaggagctg	480
ctgaacgctt	ccaaaaatct	ggagccgact	tcgcctgagc	taattgcggc	tcttaatgag	540
gctctgtcaa	cgcacataaa	acggtga				567

<210> 5033

<211> 216

<212> DNA

<213> *Enterobacter cloacae*

<400> 5033

ccatgtacaa	agatgatgga	gaaacaagtg	gccaaaaata	acaacagtct	caaacagcat	60
gtcttcaata	tgctgtcggc	tggcagcgaa	cttaaagaag	tgaagcgttt	tctcaccagc	120
aagcgagtta	aagcccgctt	ggcagtgtea	atgatccacg	agcaggcgat	tgctgtgcag	180
aacactgaat	accagaatta	tccggcttat	agctaa			216

<210> 5034

<211> 726

<212> DNA

<213> *Enterobacter cloacae*

<400> 5034

tgtgtacctt	actggcattg	tcattgtcct	ccgagtgtgc	gttcagcttt	gggaggacac	60
cggaacttaa	tgccggcgagt	cacggccatt	gtgaatctcg	attggattgg	cgaatacggc	120
ttccggtttg	gccagatgtc	aatgggttatg	cttcacccag	ctcattactg	tagtcattgc	180
cgttcagctg	agctgatgct	cctctcattc	tatgtggcga	caacggtagt	gagccagaa	240
agtgactacc	gttgtcatgg	cgtccagta	gagcgggtca	acctcttaaa	tcacagggtg	300
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tacctctcaa	ttcacagggt	gacaatggta	gtgagcccag	caagtacta	ccgttgtcat	420
agtcgtcccg	ttgagcagat	caacctctta	acttacagga	tgacaacggg	agtgagccta	480
ttaagtcatt	accgttgtca	ttgccatcca	gaagagcgga	tgatcctctc	aattcatacg	540
gogacaatgg	cactgagccc	agcaagtca	ttccgttgtc	atagccttcc	agaagagcag	600
atgagcctct	taattaacag	ggtgacaacg	gtagtgaagt	cattaagtca	ttactattgt	660
catggccgta	cagctgagct	gatcatcctc	tcaattcaca	cgcgcgacaat	ggtagtgcgc	720
tattaa						726

<210> 5035

<211> 432

<212> DNA

<213> Enterobacter cloacae

<400> 5035

atggcgatga	ataaaaaaga	acaagccgcg	tatgatgagc	tgggtggcaca	ggccagaata	60
aaccgcgctt	tacgctggtc	tgactatggc	gttgaacgcg	atatgcccgt	accagaggtc	120
tcgggggaat	acaaaaacgg	ctggagcttc	aacaccgcca	ctggcaactgt	ttatccgaca	180
tggagcgga	ctacggttca	cggcacacgg	gaagagggag	aggttgtcga	tgcaacctcc	240
cgcgcgatgc	gaggcatgaa	tggtagccag	aacggcatac	cacaatacag	caccaaagaa	300
cgcgcctga	aggcattacg	ctgttcgctt	gaaatcaagt	ttgccatgca	gctggatgcc	360
atagataaag	ctatcgcaaa	agaaatagag	ctgtccaccg	ctcgccggga	gagcgataca	420
tcagatgcct	ag					432

<210> 5036

<211> 633

<212> DNA

<213> Enterobacter cloacae

<400> 5036

cttttgcctg	atctgccgcc	gtctggtgaa	gacgtaacag	tagatgggct	ggagaacgto	60
cgtatacagc	tcaccgatgc	tctaactaaa	ccatccttaa	gccgtatgac	tcttcgcggg	120
ggccctgttt	ctgatgcggg	ggaattgtct	tgggtgaatc	tgggaaacaa	cctgtatgca	180
cctaattatc	ccaagatctt	tccgtctctt	aatgaaggcg	aaacatacac	tctcacagtt	240
caggccaaag	atgagatgaa	caacgttaaa	gaaagctcag	tccaatttaa	ctaccttcca	300
aacaatctcg	tcaggctaga	gaatctgaaa	accttagctg	tcaatgcttc	tctcaaaaaca	360
tctgacaata	ctcctctggc	tgttctgtat	gccagccagc	tgcgtaaaaa	ggatggttca	420
atcgctacag	ggcttcagga	cgcagtgcct	actgtccgta	aggacgctgc	attcggcgctg	480
actgtaaagt	gtgtttctgc	gatgccaggt	gaaagcaaa	agcttcaact	ggatttgggg	540
ctcggggaca	gccgtagctt	tcctattttc	cctgctgtat	cgggccttac	aggcagatct	600
gagttcatga	ttaacattga	agaattaaaa	taa			633

<210> 5037

<211> 294

<212> DNA

<213> Enterobacter cloacae

<400> 5037

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caggcccggtg	atcagagggg	ccttaacgcc	ctgaaagagg	cggttccagc	gacggcacaa	120
ctacagatgc	gggttacccc	tgaacgtaaa	ctgcgttacg	tcaatcaggc	aaaggccgaa	180
ggtctgggtc	taacagactg	ggtccaaaag	catatggata	acgtgtgtga	tctggcaggc	240
cagcctgaaa	taaccatgta	caaagatgat	ggagaaacaa	gtggccaaaa	ataa	294

<210> 5038

<211> 228

<212> DNA

<213> Enterobacter cloacae

<400> 5038

cggttacgaa	ctgttacctc	attacaattt	attaagtgga	tctatatatta	taagcccgca	60
acgctgaaga	gcacgtagg	tatttttctt	ttcagctggt	ctgttgataa	caagatcggtg	120
gtcaagagac	agtattttct	cgctcgaaatt	gcgcaaaacc	tcgtctattt	ttcctacgaa	180
ttccttgtgc	tgtggcctgt	ctatatcccc	agggatcaaa	gacttttag		228

<210> 5039

<211> 327

<212> DNA

<213> Enterobacter cloacae

<400> 5039

atccacttaa	taaattgtaa	tgaggtaaca	gttcgtaacg	gtcaaagaga	ggtgtgggaa	60
atgagaatgt	tgctgtttt	gcctgatgaa	tccttgttca	gccggttttg	tcggacaact	120

accgtgtacg	gtatgtcccc	atcttctctg	ttaacgatca	ttttcaacaa	acctgatatg	180
aacgtccatc	caattctcaa	ttcaggatta	aaggctatct	ctcttcatac	atccgaaagt	240
gcagatcagc	tctggcatga	acagacttta	ctccctcttt	ttgcctgggc	actaccaatc	300
agtcgtaatg	agatcctgga	cttcaac				327

<210> 5040

<211> 279

<212> DNA

<213> Enterobacter cloacae

<400> 5040

tcgctgtcat	cggggataac	gcgcggcgtg	accaccacgg	acagcccgtc	ttcgtcatcg	60
cgaatgatgt	tcattgctgt	gtcctgccag	gcggcaggaa	aaagggtaaa	ggaaccttcc	120
tggagggtgt	atttcataag	tgaactcggg	atgattttatt	cgaaaaataa	aattaaaagc	180
gctaaaattt	ataccgcaa	tattaattac	tgcttagcga	ctcagagaaa	tatgatcatt	240
agaacgttag	cactttcttt	ttttccgcaa	aaacttttag			279

<210> 5041

<211> 195

<212> DNA

<213> Enterobacter cloacae

<400> 5041

ctcctggttt	attggcttgt	ggatatgttc	tcgtccaacc	tttggatgtc	aaaatattat	60
gaacatcagc	gggttttttc	cctgttaatc	tatccaccca	tctttgtgtt	atacgatctt	120
tttgagaaaa	accacatttt	aaccccccacg	gatccaccca	ccccagcgca	ttcggcgcat	180
actggtaaag	gttaa					195

<210> 5042

<211> 549

<212> DNA

<213> Enterobacter cloacae

<400> 5042

cttctggcac	tgagattcgt	ccatagtgga	ataaagatta	tgctcaaccg	aattaccgtc	60
cagctcccgg	ttgaggggct	gcttttctgg	aaactctcgg	gcgcgaggcg	gatgtccgag	120
tcgttcgcgc	tgacgctgac	cgtgctcggc	acagacgcgc	gcacgcaccg	cagcaggctg	180
ctcggccagc	cggtcacggc	gacctcccg	acgcagaatc	tgctgacctc	ccgctatgtt	240
aacggcaaga	ttaccccgct	ggcggtgagc	gcctgggagc	tgacggggcac	ccgctatgcg	300
gtgtaccagc	tgacgggtgga	gcgggacctg	tgcccgatga	aacgcgaccg	taacctgcgt	360
atcttccaac	gcccaaaccg	tacgcagatt	gtcaaaaccc	tgctgggtga	gcacaaagtt	420
aaacctccaa	aaacaactca	cgggcagcta	cggggtgtgg	gactactgcg	tgacgtatca	480
ggagtcgagc	ctggacttca	tcagccgcct	gatggagctg	gaggggattg	cgtactactt	540
ccgccatga						549

<210> 5043

<211> 459

<212> DNA

<213> Enterobacter cloacae

<400> 5043

atcatcccga	gttcacttat	gaaatacacc	ctccaggaag	gttcctttac	cctttttcct	60
gcgcctggc	aggacaacag	catgaacatc	attcgcgatg	acgaaagcgg	gctgtccgtg	120
gtggtcagcc	gcggcggtat	ccccgatgac	agcgactacg	aacaagagtt	tcaccgccag	180
tgggacgtgc	tgogtctcca	gatgggggaa	attgcacaga	gcgaatttca	gcacgtaaaa	240
gcggggccag	acggaaacat	tagcgactg	gaagttgaga	ccacctttga	ccgtaacggc	300
cagcgccctg	ggcaaaaaa	gctggccgtg	cagacgccgg	gcaaacccgt	actgatgatt	360
tttacctctc	cgcccttaaa	agcctttacg	gaagaggacg	aggcgcgctg	gagcgactg	420
aagcagagtc	tgacgctaaa	cgacaaccgg	aatgtgttaa			459

<210> 5044

<211> 528

<212> DNA

<213> *Enterobacter cloacae*

<400> 5044

ccgattcacc	tgtttatgtt	gacggagttt	tacttaatgg	gggggtataa	aatgattgat	60
tttaaatgctg	atattttatc	aggaagagca	ctaggtaacg	tttttttggg	ggataaatatc	120
agtaagtaca	taagcgagtt	atatgctggc	tataaggtaa	cttactttga	ttattttcttg	180
cctgatgata	agaaaaggct	tgcataatatt	gtagatgaca	caatgacaat	cgctaccctt	240
gaagatggaa	cgatcatttc	tattggttgt	aacgtaaact	ataaggggag	gtataataaaa	300
atattacaaa	caggccaaac	gatgggggaa	ataatagggt	tgacttacaa	acagcgtata	360
tttaatggct	gtattattat	aaatgacgac	tttggttttt	cattcgagtt	gccagcgcca	420
tatgatgaaa	ttgcagatag	cattgcacat	gttccactag	atcttgttct	taatgaaatc	480
cgtgttgctg	attactctga	ttggaaccca	caaaaaataa	aacgctga		528

<210> 5045

<211> 546

<212> DNA

<213> *Enterobacter cloacae*

<400> 5045

attataatga	ttactatgga	ggattctatg	gaaagtagga	tgattaaagc	tacattcctc	60
attgttcttc	cactattttc	aatatattacc	tatgcagggc	ataataaaaat	gaatcaagat	120
tcgtttgtgc	aaatgattaa	agaaatgaaa	tcagtgtggg	gtaaacaagt	tgaggatgtc	180
agtaaaactgt	ttaaccaacc	gctgattaat	aatacacagg	agaaagaaga	ccgtttatact	240
tcagctccct	ttacgttaac	tgatggcaca	cggatcagta	atgtggatgt	tcgtttatgg	300
ggaaatggtg	ataacagcgt	atctttgggt	tctttcgtag	ttaatcaacc	atgtattact	360
cttgatcaag	tcaaatctca	ttttccggat	ctaaaattgt	ctaatatccc	tcgcggaaac	420
acgccgggac	aatcagttgg	atatcgccacc	cctaccgatg	aacgcgggct	ggcatgggca	480
tttagctttc	cagttctgaa	tcagggaatgc	ctgggcaggg	tagttatgtc	acgctacgaa	540
caataa						546

<210> 5046

<211> 186

<212> DNA

<213> *Enterobacter cloacae*

<400> 5046

aatacccagc	gcccgtcgca	gcccgcgtgg	gattactact	accgcaataa	cttgggtgcgc	60
gaagagcggg	acgataaccc	gttcaaattg	taccgctggc	agtacgacag	acagtgccgg	120
gcgtctcctg	gttcaggacg	gcacgcctggc	cggagaggag	caggggggtct	gggatgcagc	180
cgctaa						186

<210> 5047

<211> 315

<212> DNA

<213> *Enterobacter cloacae*

<400> 5047

cggccaaacc	cgaggaaccg	caaaaaaccg	cagacgcagg	tcagcttccg	ctacgatccg	60
ctcggtcgcc	gcatacagta	aacgcgacgc	cagaagctgg	gcggacagcc	aaccggcaag	120
coatcaccac	ccggtgtgtc	tgggaatgac	tgccactactg	gggaagcgca	cggggatgtg	180
ctgttcacct	acgtcgacga	aagtggtcag	gacaactacg	atttgctggc	gcgtgtagat	240
agtgttgatg	cttcatatat	cttctgggtc	cattgccaat	ccaacggcac	ggcacaactt	300
ataactgata	tctaa					315

<210> 5048

<211> 246

<212> DNA

<213> *Enterobacter cloacae*

<400> 5048
 tgtttttcca taacaatcat atggaacaag aataaaaagtc tagggaatat aatgagtgat 60
 aagatcatgc aaacagtaga tctgctaatt tcacatagtc aaatattggt acgatccaga 120
 gactatgacg aaaagctgag tcagtgggga aaaggtaatg tttctcaagg cgctgtttta 180
 cacaaggatt atgctgtatt cgttcttcta ccacagggga cgggcatccg cgcaatgcaa 240
 tgcgaa 246

<210> 5049

<211> 249

<212> DNA

<213> Enterobacter cloacae

<400> 5049
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 cgggaaattt tcatgaaggc gcgatgaatca gttattccgt ttccaatagg aataaagggg 120
 ttattatttc agtgggaaat gaggcctgta tttgccctgc cggataagtt agggggcatt 180
 cagaattcat ttattgagct gatgaatgtc tacgcggaaa aaactgggtc tgaccaatac 240
 cacctttaa 249

<210> 5050

<211> 189

<212> DNA

<213> Enterobacter cloacae

<400> 5050
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 tatgtcccga tcatcctcac gtacattttt ggctatgtcc ttgacgttta cttccctgag 120
 gttagccagg gattcatcct cctgttttac ctggtaaacac tgggactggc ttactggata 180
 tggcattga 189

<210> 5051

<211> 345

<212> DNA

<213> Enterobacter cloacae

<400> 5051
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 cccctctccc ttgagggaga gggtgggggt gagggggaac atacggctct ggtggtcatt 180
 ccgttcactt tatgttcctt gctactctgt caccgacatga ccggtgaacg tgccagggtg 240
 gctcagtcgc caccaccctg ggcaccggg cttccggcgg aaaatcgccg cttcgcggtg 300
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<210> 5052

<211> 756

<212> DNA

<213> Enterobacter cloacae

<400> 5052
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 aagttaccga caaataagac aaaacgcctt taccgtttgc ctgcccgtt ttatggttat 120
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 caaaatccgc tgctggatct gctcaacat cggctggcga aatatgtggc cattgccctg 300
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756

<210> 5053

<211> 726

<212> DNA

<213> Enterobacter cloacae

<400> 5053

agtgcgaggt	cagtaagcat	gtaccattct	gaagagatca	tccgccagct	tcagagccaa	60
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cacctgaata	atataggtgc	cgggtgccaa	cgctgctgt	actacacctc	ctgctttact	180
gatgaatatt	acgatgtatg	cacccgacaa	aacctggagg	acgctcgatt	ccgaaagggc	240
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gctcatcgcc	tgcaagtgat	gcatcccgcc	tactatcaag	cgttatacct	gcaagaactg	600
gagatgatgt	atttcctggt	ggagcctgct	tttatgcgcg	cgggcggtgt	aaccagcaa	660
tggactgaca	gtcaaagccc	ttatgatgct	gctgacacga	tcctgaagct	aatgggtaga	720
cactga						726

<210> 5054

<211> 1917

<212> DNA

<213> Enterobacter cloacae

<400> 5054

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ctttcgtttg	atgatgcaaa	tgcaacggta	gtagtaacgg	acagcaaata	taaccatccg	180
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acctggttcg	gcactttccc	ggaaaactaat	cagctgcgcg	gcagcgtaaa	ccagtttatc	660
gatgccgtgc	gtccgcggcc	ttataagcct	tatctgcact	acaacagctg	gatggacatc	720
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cgttactacc	tggatttaac	caaagatttt	gagatcccg	caggagagcg	ttcgcagttt	1800
accctgaaag	ccgtgtacgg	cagtaattcg	accgtaccag	aggagtataa	aaacgctgtg	1860
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<210> 5055
 <211> 296
 <212> DNA
 <213> *Enterobacter cloacae*

<400> 5055
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 acgctgatgt gggtgattgc gatggcggtg gccggttgcc tgttcgtgat cccaaccgcg 180
 gcggagatcc cgattattca gaccatgatg atggccggta tggggaccgc accagcgctg 240
 gcgctgctca tcacgctgcc ggcggtgagc ctgccgtcgc ttatcatgct gcgtaa 296

<210> 5056
 <211> 372
 <212> DNA
 <213> *Enterobacter cloacae*

<400> 5056
 gcttggggcg tcggtttcaa agcgattaat catgctggca gcaaaatgct gtgcgttggc 60
 ggcggacgtg ccattgccac aacagaggat tttgttgccg ttgagcagcg actgaaccag 120
 tgtcatcgct gcaocgcaga tgcgctccgg aagggtcttc gccgcggcaa tctgcgtttg 180
 aatgctttct gtgaagcaca ctttaattcg ttogagcagc gtatcccttt aaaatcttat 240
 ttatgcgtct tcgccaaacg cgtttttaag ccagtcgata gcatttccgg tgaaggctac 300
 cacatcgaaa cggcaatcca cagtatcaaa actcccatta tggcggggcaa gccacaagtg 360
 ggcagtctgt aa 372

<210> 5057
 <211> 405
 <212> DNA
 <213> *Enterobacter cloacae*

<400> 5057
 gtggataacg tactgcatca gcatagctgg aaacgcgcag cggcattgac cgcgctgttt 60
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 agcgccatgc cgggcatgca ccacgacatg agcatgatgt cggtgagcga gcatcatggt 180
 gatatgccgc attctatgcc agttgaccaa gctgaagcat gccgctactg cgtgctgtta 240
 gcgcatgtac cgggcgtgat gctggcgctt atcgtttctg tcagcgtggg gttgcagcgg 300
 ctgcgcgtga agccgcctcg tcaggcggtc agccactggc actttttccc ctggctttac 360
 cccgataccc gcgcgcgcgc gcgtcggtct gctttctccc tttaa 405

<210> 5058
 <211> 279
 <212> DNA
 <213> *Enterobacter cloacae*

<400> 5058
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 tgctactgga gattaaatga ggtcacccct caattattca aggttaataa cctgaattat 180
 gtgaaaagaa aacggcgctg accggatcgt cttgattctt taggttatat cagccaaatg 240
 aaacttgcca tacggcctgt cgtcttgctg cggcgatag 279

<210> 5059
 <211> 291
 <212> DNA
 <213> *Enterobacter cloacae*

<400> 5059
 ctgctgaaat gtaaattcat gagcgcgctc aggatcgagc tggaaaaggg ctttacgaac 60
 gaaggggtag tacatgaact ctcttgatt cccggtgtgc aaaccgggag gggattatgt 120
 gcgatccgcg ccggaaaggg aattgacctg tggcaaaaaa agccacgtaa aacgcaatcg 180

tttacttata	ggttcgcttc	ttatgcattt	ttctgcatto	atcctgagga	taaatacattt	240
agtggataa	ccacgcaatg	tcacactcct	gaaaattggt	atgaatgta	g	291

<210> 5060

<211> 183

<212> DNA

<213> Enterobacter cloacae

<400> 5060

tcgggggttca	ataaatcact	aaacagggtg	tactcoggag	ttgtttattg	tactaaacgc	60
tcccgtaga	ggatgctaca	gcgcacctat	gactcaattc	gcttctccgg	ttctgcatac	120
gttgctggat	accgacgcgt	acaagctgca	tatgcagcaa	gccgtgtttc	accactatca	180
tga						183

<210> 5061

<211> 381

<212> DNA

<213> Enterobacter cloacae

<400> 5061

acaagcctgg	gaacaggtgg	gagtactgta	atgcaggta	cggaactgac	ggatgacgcc	60
gtggttgagc	tggcccgga	aggcgcgctc	gcctttatct	ctaagctgag	cggtcagcgc	120
acgatcgccc	tctccacgct	caacgaggcg	cagcgtcagc	gcgtgggtgaa	tattctggaa	180
caggctatcc	cgcgcggaca	gccaccgggc	caggcgctcg	ctccgggcag	cggcgatcag	240
cgctattttc	gcattcagat	aatctggacc	cggcacaatc	aggcgagta	taccgatatt	300
attgtgctgg	ttccggagca	ggaagcgccg	gaatcgctga	tcgagctatg	gcaaaaagga	360
gaaggtcgcg	tgtgcgatta	a				381

<210> 5062

<211> 315

<212> DNA

<213> Enterobacter cloacae

<400> 5062

cggttcatca	agggaatact	cggggtcgat	atccacgacc	acacccaaat	atccgagcaa	60
ggtgtggcgg	acctgctggc	cgataccgaa	tttgctggca	atcatagtca	cctcccgga	120
aacattacat	acacactatg	tgcgggcaat	atttctcttt	tcaagttaca	tgacgcgaca	180
ggcaaaccct	ttcagatata	gcccttccgg	gtaggtagcg	atcaccgggt	gatcggcggc	240
ctgacgggaa	tgcctataa	attgtacatc	acgaccgcga	tctattgcgg	catcggcgat	300
gattttttgg	aataa					315

<210> 5063

<211> 852

<212> DNA

<213> Enterobacter cloacae

<400> 5063

tttcccttc	gtgacagcga	tcataaattc	agcatcccg	tcttttcttt	ggaaccggtt	60
ccatctagcg	taatactata	gattacgctc	tggagtcagg	aaatgagcag	gaaaattatg	120
gtggtcaccg	cgcgctatgg	tgcggatcag	gtgcgacagg	caggcggtca	acgggcaatg	180
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cacgacgagt	taatggccct	gcctgcgctg	ggcgagtcca	ttgaactgct	gggtttactg	300
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cgcgctacc	ttagcgaagc	cagcgcaactg	aacgcgctgt	ggcttaaagt	ttcgctgggt	420
catttcagcg	acaaacaacc	gcttgaagcc	ctgcgcgcac	tgtggtatga	aagcggcatg	480
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ctgtgggttg	ggaactcccc	ggaagaggct	gcacgtcagc	tggctccgcg	cgtgagctat	660
attcatgtca	aggccgcagt	ccgcataaag	gcgcagttcc	gcgccgtcgc	gccggatcag	720
accgattctc	gctggcgga	tctgcttaat	caactgcctg	ccgacgcgcc	gcgcggtatc	780
gaatttccgc	tcgaaggga	ggatctcacc	gccgtcaccc	gccattacgt	caacctgctg	840

cgcgaggagt aa

852

<210> 5064

<211> 288

<212> DNA

<213> Enterobacter cloacae

<400> 5064

atgacaagcg	ttatttttcat	caagcataaa	aaaaccccgc	cgaagcgggg	gtttttctta	60
ttccgtagca	gcgaccgctg	cgctccaggc	ctggctaaag	gcctgatgct	gggacgcgag	120
cggaccgatc	agcgcggtat	actggctcgc	ctgctgggag	gtcgggaact	ggataccggt	180
agagacaaag	ctcacctgcg	taccttggtc	actaataaag	tcacccacct	ggaccaactg	240
ctgagtaaag	acctgcgcgc	cggggatcag	cggttgcaaa	gcgtttga		288

<210> 5065

<211> 747

<212> DNA

<213> Enterobacter cloacae

<400> 5065

ggtggcacia	tgaacgacgc	aattatcacg	gacaatgagc	gtattaacat	tgaacaaaaa	60
gatgtaatgg	taaaaggttc	aaataaaaaag	caaggcgtaa	acgctcaaac	ttctactcaa	120
cgtagaccag	agcaccaggg	tatggccaaa	gttattatta	accccggcac	cccagacttt	180
aaccggtttt	taactgccag	aaatggagca	gtcatcagag	gttttgatga	tgtgagtatc	240
gctatttcct	ctctctttta	aacggttgat	gcagttaaac	atcctgacct	tggtcaggct	300
attcaggatt	ggttcaacga	gctgcgatga	gaaaacaata	agatgaaaga	aaatcttggt	360
gcttatatta	agtcaattga	gttcogacaag	aatgactcat	tcatgtcatc	aactcagttt	420
gtacctttca	gttttgaaac	agtacaaactc	aacttcaata	accacaacac	catgagggtt	480
tacaagtaca	tcttcogagat	gaaccagctc	atgaacacaa	tgtatgagta	caactcattg	540
gggtttactgg	ctgtaagcga	ctatccgggt	atgtctcaca	acattataaa	gagtattaat	600
ttatatgttg	agaatgtgaa	aaagactctg	aatgtttctc	gccgtaagga	tgggccatac	660
agtccagcag	agttcatcac	caaagtaatg	caatataaaa	gtgtgcaggc	atacattgca	720
gccgaactgt	caggcaaacg	tcgataa				747

<210> 5066

<211> 924

<212> DNA

<213> Enterobacter cloacae

<400> 5066

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tcattctcagg	agaatgatgc	aacctctgta	atgattgagg	atatatcaag	cctctctcct	120
tttgccgaga	ttctaggaga	tcagaagtac	actgttcctg	atcatccaaa	tccagaagtc	180
ctgaaattca	tcgagtatcc	aactcgtccg	acgggcatac	agacatttaa	tgaacagtca	240
atcctgtctc	tgtatcggga	aaagctgcac	tcaatttcaa	tgatgttagc	tatcagcgat	300
agcgacatca	gggacgatgc	atatacattt	actaatttag	ttttaaagcc	cttggttgaa	360
tatgttcogct	ggatacatct	tttgccagct	tcggaaaatc	atcatcataa	tggtattggt	420
gggtttacttt	ctcacagcct	ggaagtggcc	atactctctt	taaaaaatgc	gcatactca	480
gaactgagac	caatcggata	tcaagatgaa	gaagtagtcc	gtagaaaagt	atatctctat	540
gctgcgttta	tctgtggttt	agtccatgat	gccggaaagg	tttacgatct	cgacattgta	600
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cataatatct	ggtccagcgt	tttccttgag	cgaatcctaa	acccggtatg	tcttgcatth	780
ttggatcggg	taaataaaga	acgtgtttat	tcaaaaatga	tcaccgcctt	aaacgtttat	840
actgatggga	atgacttttt	gtctaaatgc	gtgaggaccg	ctgattttcta	ttctactggt	900
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<210> 5067

<211> 624

<212> DNA

<213> Enterobacter cloacae

<400> 5067

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ttcacatcag	gaggcgctcat	gagtaattca	aatcttataa	gttctataga	gctaacacgt	180
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tactggatca	agtggaagga	acgaaaccac	caagagatta	accttaccgg	acatagcaaa	300
gttccaaaaga	gggagtacct	gggttctttac	gcacccaaaag	ttgagctaatt	tggtaatgcc	360
agaaaagtaa	cgatcacttg	gcatacagttc	agcccttata	aaacaagagc	gcctagccac	420
atgtcaaaac	gggtgcaacc	aatgaaaagt	ggaaaatatt	ctaagaactg	ttttgtaaac	480
catgccagct	gggaatacga	aatgattttct	gaaacgggaag	cattgctgga	gccttacaga	540
gaaatgcttg	agctctatca	ttcagcatat	atcgaacttg	gacgaaaaat	ccgtcaatac	600
tcaaaaacta	aggtggcaca	atga				624

<210> 5068

<211> 183

<212> DNA

<213> Enterobacter cloacae

<400> 5068

cttaatatata	gcaacaagat	tttcttttcat	cttattgttt	tcttcatgca	gctcgttgaa	60
ccaatcctga	atagcctgaa	caaggctcagg	atgttttaact	gcatcaaccg	ttttaagag	120
agaggaaata	gcgatactca	catcatcaaa	acctctgatg	actgctccat	ttctggcagt	180
taa						183

<210> 5069

<211> 192

<212> DNA

<213> Enterobacter cloacae

<400> 5069

tcgagcaaaa	tctcaatcgc	attcgggcacc	ctcagtaagg	ttaaaggcag	gagtgttatt	60
gatactcgtt	gtgaagaggt	aatgaaaccc	cctgcaattt	ttaacaaatc	tttcttcgat	120
tccaaatcaa	aaagtaaatt	attgactttt	ataacgtcat	tatctgattt	agcattcaag	180
acaaaagaat	ga					192

<210> 5070

<211> 336

<212> DNA

<213> Enterobacter cloacae

<400> 5070

ctggagcagt	ttcaaagagt	atcgctgttt	gcgttccct	ggctgttccc	gattactgtt	60
tgccgcgtca	ataagtcgct	ctggggggaa	atagtgtgta	gtgcagatgc	ctttaatgca	120
gatgatcaat	ggtacgacgt	ggtcagaagg	gccgataatg	cagttatcta	tagcttcccg	180
gcggaagggg	gatctctggt	ttatcgagta	aatggaatag	tttcattacg	acccttactc	240
gaagaggaag	aaatcttcac	tcttaacggg	tttatgcaat	ttgcaaaacg	gcttgggtac	300
cgaattacac	caccgtctga	tatcattctt	tcatag			336

<210> 5071

<211> 621

<212> DNA

<213> Enterobacter cloacae

<400> 5071

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ctgatcccg	caacccccga	gaccagcgat	atcctgcaat	ccaaaaccgg	gctcggcgat	120
gttcttggtg	ccgaattcag	gcgggttcgc	aagccggcat	tccatcgacg	ctttttcgcg	180
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cgtaagctga	ttactggcta	cgccaagttg	ctggcttcgt	atggtggtaa	tgagggggcg	300
ctgatecgatg	ctgctgagca	gtatcttgag	caggttgcat	accgcccggg	cacaaacggc	360

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gccaaatgg	acgaattcga	gtttcagcaa	ctctataaag	ctgcgctoga	tgtcctctgg	540
cgctgggtcc	tgtcccggtc	attccgcagt	cgtgatgagg	cgcagaatgt	cgccgcgcag	600
ctgcttggtc	tgcgggggtg	a				621

<210> 5072

<211> 198

<212> DNA

<213> Enterobacter cloacae

<400> 5072

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tgctgtgac	atttccaccg	ggaggcacc	ggcaccactc	cctcagttat	tgccaactta	120
gctatttatg	cctgcttttc	cgagcaggct	tttttttcat	ttattaatca	tccatttgac	180
ctgctccccg	ttgattag					198

<210> 5073

<211> 189

<212> DNA

<213> Enterobacter cloacae

<400> 5073

aagcagatgg	cagggcatag	tgaggaaatg	gtctgttatg	agcgagaagc	ggactctacc	60
gtggatttta	tcaacactca	gggtttgctt	ttaaaaattg	ttatccagtt	ttactgcatg	120
aggtatccca	taattgtcct	accgtttttac	tcattttattg	tctcttttat	ctatgacatc	180
aatggttaa						189

<210> 5074

<211> 297

<212> DNA

<213> Enterobacter cloacae

<400> 5074

atatacatat	tgcgatctt	atcaagagt	gcatgtccgt	cgaaaagatt	gtattgtgcc	60
tgttctggcg	agaaccttcc	tatttttatto	tcgggatata	gagcaagctt	gcccttttca	120
tgggcggaag	aagttaccgc	tgttagtga	acacatgctt	cgatgaagc	atattccgca	180
gcgctttctg	tattcgggtg	aaaagatttg	gttgaactta	ccattgttat	tgccaccatg	240
aatgccatta	atcgtatggg	tattagtttt	cgaatgaagc	cgcttgctaa	agcttga	297

<210> 5075

<211> 261

<212> DNA

<213> Enterobacter cloacae

<400> 5075

gagagtgtga	aatcgccacc	actggcggtt	aagaggcatc	tcatgaaact	acgtatcaca	60
agagcaatcg	gcctcagcaa	gttctcgcca	cgttgggtta	aggttatctg	tttacggttg	120
actaaaaacg	atattgagcg	ctccctcaac	gctcttctgg	ccacaatcga	tgaatctgaa	180
cttacccttg	agcaagtcaa	agcattaagg	gaatgcattg	acagaattaa	catcgcaagg	240
gggaagggtg	tgcaggcggtg	a				261

<210> 5076

<211> 822

<212> DNA

<213> Enterobacter cloacae

<400> 5076

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cttgtgcatt	gatattctgc	atatcaaact	gggactcctc	ttctccagcg	tcgcctatct	180


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gggaaaggat ttagtacagc cgctgattta gcttttgaag tggaaacacg tccaggtagt 240
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tacgatgccg gtgaaaaagt gacttttctg aatgggtacag tggatatcta taatoccaaag 420
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<210> 5077

<211> 453

<212> DNA

<213> Enterobacter cloacae

<400> 5077

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gccagcgtaa aacgtctgaa tgcgaatttc tatgagatcc atggtaacgg ttttgtgata 360
tcgataagcc tggatgaaaa cgggtattacg gacgcgtcat ggaataaaac gaagggacgc 420
gaacacggcg ttttacgcgt tagtcagaaa taa 453

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<210> 5078

<211> 225

<212> DNA

<213> Enterobacter cloacae

<400> 5078

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ggggttgttt tagaatggaa agaatcattt cggtagctat tcgataatca atactataaa 60
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gccattatct ggctgcgtat tttcacccgg tcagcatctg gatcttgctg gaaaacaggt 180
gatgaccaca gaaaatgcaa acgatcgtct ggagaagcgg attga 225

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<210> 5079

<211> 276

<212> DNA

<213> Enterobacter cloacae

<400> 5079

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aaagttaaaa aacagatggg gcttgaaaaa aacgccgcca atatagagcc ttttgtcacc 60
gggctcaatg gtttatttgt ttactgtttt gtgacacagg gcacagggca gggaagaacg 120
ccgtttgtat ggggaagatt gcactttatg ctaaataaaa acagcagctt acgtatgatt 180
tgtcagcatt gtaaaatcag acaaaagagt gtgacaaatc gtgcgattgg caggcgaaaa 240
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<210> 5080

<211> 291

<212> DNA

<213> Enterobacter cloacae

<400> 5080

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atztatcact tccatttatg gacttttggtt attgcatttt ataccttctc ttttgaatca 60
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gatgcaacag ccgtggcgca gcgtattgat actgtgctgg atattcttgt cgcaggcgat 180
tatcactctg ctatccgtaa tcttgagatc ctcaagtctg aactgctggc tgagaacggc 240
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<210> 5081
 <211> 222
 <212> DNA
 <213> *Enterobacter cloacae*

<400> 5081
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 atggatggca tttcgggttag gcaaacccgt aatcgatatcc gtattggcga gaacgcgcag 180
 gcgctcctgg gcccgacgt cctcggttat gtcggtacct ga 222

<210> 5082
 <211> 336
 <212> DNA
 <213> *Enterobacter cloacae*

<400> 5082
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 gttaacaggc tgcataaata cccgctatct atcgcatatc tgggtgtttgt aatcgctgtt 180
 gcagccgttc agataaacat ctttgctaatt ggctacgagt ttgtccgcag ctttttgcat 240
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<210> 5083
 <211> 192
 <212> DNA
 <213> *Enterobacter cloacae*

<400> 5083
 aaagcggcct gctggccctt gccgttcagg gaagctattg cgacagggga tggctactac 60
 ctgctctggc caaaaaattc actcaaaaga gagagcattc agcatcttct ggcctggctg 120
 caaaaccata ccccggtcgt tccggcgctg gatatcgatt atctggaata cgatgacagt 180
 cgggtttatt aa 192

<210> 5084
 <211> 720
 <212> DNA
 <213> *Enterobacter cloacae*

<400> 5084
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 catgcattca ggagagacaa gatgaaaatt gcactgatga tggaaaacag ccaggccgct 120
 aaaaatccca tcatccttaa tgagctgaaa gccgttgctg atgagaaagg tttcccggtc 180
 tataacgtcg gtatgagtga tgagaacgat catcatctca cctatattca cctgggcatc 240
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 tttaccggac gcaatggcga aggttatcca ccagagcgta aagagccgca ggtgcgtaac 540
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 cgagcaatcg atcctgagct gggttaaaacc gccgtctcag gccagcgctt ccagcagtgc 660
 ttcttcgaga actgccagga caaagagatc gaagccttcg tgcgcggtat tgttggtgta 720

<210> 5085
 <211> 501
 <212> DNA
 <213> *Enterobacter cloacae*

<400> 5085

atagtcataa	tgagaggaac	cggggcaaac	atgacacttg	atgcttttatt	tcagttaatg	60
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cttatctcca	ctaaaaatca	ttctgaagcc	cttttaccgt	tttcgcagcg	cgcgatatatg	180
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gccacgctat	taogcgcggc	aatcattgat	gctgagcaac	agaaaaacac	gccagcattt	420
tatattctgg	ataaggtact	cagcctgaac	agcgctttgc	cagaacgtta	taaaaagatg	480
gcaaacatat	cttattcatg	a				501

<210> 5086

<211> 810

<212> DNA

<213> Enterobacter cloacae

<400> 5086

gaaacaattg	cagttatgga	aaatgttaaa	cagtctgcac	cacctcctga	ttttgttgct	60
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gatgacaggg	atcctcctgg	cgaccactgg	ggcactgggt	ggttagttga	agaatgcaat	180
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aataccagat	ataccgaggt	aaccaatgca	ggcggatat	ggaccccttg	tgactctcgc	720
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<210> 5087

<211> 183

<212> DNA

<213> Enterobacter cloacae

<400> 5087

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aaacggatct	gcgcgacccg	cctgcaatgg	gatcctggca	agcgctgcat	cgatttcgcg	180
taa						183

<210> 5088

<211> 2016

<212> DNA

<213> Enterobacter cloacae

<400> 5088

ggaacaaaaa	tgaggggaag	caaagaaaaa	tctatgcggg	atgtttctgga	ctctgcccag	60
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tgcttgctgc	tgccacagaa	agccagcgtg	gagacagtaa	ccgttgagct	ggatgaggat	180
attgaactca	actccaggca	ggagcgcatt	tacgttcagg	ttaaaaccgg	cctgaaaccc	240
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ttacaaaaat	tctgggcact	cgatggactg	gttttttccg	agcttaaaga	cggtgtttct	1920
gagcaaattg	cacaatggct	ggaagcgatg	ggagccttgc	ttacagaaca	tgagtttggc	1980
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<210> 5089

<211> 324

<212> DNA

<213> Enterobacter cloacae

<400> 5089

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ggcttcatcc	gcgacatcta	cttcgctcag	gacagacctg	gcgtcgctat	ttttcttgaa	180
tgtgactctg	tcatgaagc	gatgaacgta	atggccgaat	tcccgcctggc	aaaagcaggc	240
ttattaagct	ttgagtgcct	tccgcttggc	tcttttatta	actgggaaaa	tctctttgcc	300
gctgaattta	aaaataaaga	gtga				324

<210> 5090

<211> 555

<212> DNA

<213> Enterobacter cloacae

<400> 5090

aacttgca	gctgggaatg	gcatgacttt	gatcaagaga	gcactgaagt	agaggctgat	60
gaattcgacc	aatacaatct	tgatgttgaa	aaaaatgatg	tagtgaccag	agaattttgg	120
gcaggctcag	ttgccactgg	tcatcgctat	gctatcggtt	ttgtaaagtc	cgaaaaccat	180
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gaaagtgggtg	cttgggtggg	ctcgtttgac	ctggctgatg	gagaaaaatg	ctatgagcat	300
gttgagcttg	acctagggc	tctaaggaa	ttagtggatg	gtgttgctcg	tgacttttat	360
gaccattaca	atgtttctaa	agcgggtctt	tatttctgga	ttgcagccag	agaagaacta	420
gtcagcatct	atgataaagc	tttgggcctg	gtcccggaaa	agacgttaaa	gttgaagcct	480
ttacctttta	cagaaaacct	caatcagtta	ggcgagaacg	ggaggggtta	tgccatcatc	540
acgaaatact	actga					555

<210> 5091

<211> 606

<212> DNA

<213> Enterobacter cloacae

<400> 5091

gcgagaacgg	gaggggttat	gccatcatca	cgaaatacta	ctgaaaaccc	tacagccgat	60
cagctgtacg	aagaagttac	ccgtaagctt	aagacagcct	cttccaatat	tgctaagcga	120
aagctcgagt	ccggtgagta	tgtgatgcac	aacggcagaa	taataccggc	aagcggttctg	180

gaagaggcca	atgcagaaaa	tgcaataagc	aagcgaagga	gccatggtgc	tattccattg	240
ccatcattca	cccggaagtc	tgaggaagca	aggccactgg	ttcccgtctg	gatagggggg	300
gatgaacagg	ataatggaga	atggaagggc	agccggaaaa	gtattgctgc	ggcctcagta	360
caaacatcac	ttcgtcctcc	catgcgtgta	agagctgctg	cacattttcg	tgaaaaaact	420
cagacggtgg	atgtacatct	tgaccattca	gggattgctc	cgaagcacgg	ccagattttt	480
gcgtatgatg	caaaatccgg	acagttttatc	ccggtcattt	ctggtagcgg	aacgatggct	540
caggataatc	gcagagctaa	ggacaggaaa	cacgctggac	tgctggccgc	cagaaaatca	600
aaataa						606

<210> 5092

<211> 270

<212> DNA

<213> Enterobacter cloacae

<400> 5092

cgtcagggca	ggtcagtaat	gttaaacaga	aatcttgagg	ttctgacctc	atacttcaat	60
gacctgctgg	agtcagcgcc	gcagcaccgg	gataatgtag	tcgcaattct	cgcgagata	120
gaaataatga	agtcgcgacc	tgttttctca	ctggagccct	caatcctgct	ggcccgtaaa	180
gaaatcgata	agtgacacaat	atgtaagaag	cagggtgctct	gtgatgagtg	gccagaaacg	240
ctattttgtg	gtctcccggg	atccgactga				270

<210> 5093

<211> 210

<212> DNA

<213> Enterobacter cloacae

<400> 5093

gctcgtgcat	gtagtttgag	cacaggagga	gtgtatgggc	acaatcatga	cttacacctg	60
aatttaagga	agaagctact	cactatcaca	gacacacaga	acagaacgaa	tgaccttttt	120
aaccaggcca	gacaggaatt	aagtttatat	ggcattgaat	ttgaagatat	tacgggtcact	180
caacatctta	acgtcagggc	aggtcagtaa				210

<210> 5094

<211> 825

<212> DNA

<213> Enterobacter cloacae

<400> 5094

agtcgcgacc	tgttttctca	ctggagccct	caatcctgct	ggcccgtaaa	gaaatcgata	60
agtgacacaat	atgtaagaag	cagggtgctct	gtgatgagtg	gccagaaacg	ctattttgtg	120
gtctcccggg	atccgactga	ttccgagcct	aaggggattg	ggtttttcgcc	tgttggtgat	180
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cagtcggcgc	aagtcggttt	ttctggccgg	gagactgact	ttgttcgggc	aagccaggcc	360
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atcccggata	acgctatcat	tgcgctggcg	gccgggatat	tttttggtct	gggtgagtct	780
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<210> 5095

<211> 363

<212> DNA

<213> Enterobacter cloacae

<400> 5095

cgccattcgc	caaaaactat	cccattaaat	acattttcaa	aatggtttga	tttactttat	60
aacatcatat	atatgtctacg	gaaacaaaaat	gaatttatct	gttcagaatg	cattaatgaa	120

aaaataggaa	gcagagttgg	gtgggtcata	ggaggactga	atatttatgg	gattgtacaa	180
cgtgctgctg	atagcgcaga	taatctaaaa	aatttctgcc	caatatttta	taacgcctta	240
tatagagagg	ggttagaaat	gatgtatttc	ttgatcgaac	ccatgatcat	gaagtcttgc	300
tatctaaata	ttagcacagc	atctgatgaa	gaaattgtca	gagcacttaa	gagaatgatg	360
tga						363

<210> 5096

<211> 507

<212> DNA

<213> Enterobacter cloacae

<400> 5096

ttcactcctc	aaataaaaaac	aatgaattct	tttatggata	ctttcaaaaag	tgagataaac	60
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atgtattaca	gcgaagaaat	tattaagcaa	cctggaactg	acaaagagct	agctgtgcgg	180
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agcgatgtag	aaaagaaaaac	aatccttgaa	aacttaacgc	cattcgccaa	aaactatccc	480
attaaataca	tttcaaaaat	ggtttga				507

<210> 5097

<211> 183

<212> DNA

<213> Enterobacter cloacae

<400> 5097

cggatttcgc	cgggtgagtg	tgacctgata	tgcaaattggc	agataattat	tgctgatatt	60
catctaaatg	ctttttcacc	cggcagttcg	ctgcttattc	cgcagaatta	taagaaattc	120
ttttttggtc	atttaaaagc	tgataacggc	tgtttactat	cttttgga	tccatactgc	180
ttaa						183

<210> 5098

<211> 204

<212> DNA

<213> Enterobacter cloacae

<400> 5098

gtagagcacc	gtaccgacgg	taaaggcttc	cagggcatgg	gcgttgtaac	tttctatctg	60
gcgaacctgg	taggtcagtt	cggcgaagcc	aattccgctc	gcgagcgagg	agagcttcat	120
caggttaagg	tactggccaa	cgacgggttg	ccaggcggtta	gcgagtcctt	gtggcagaag	180
aatgtagcga	aacagacgcc	atga				204

<210> 5099

<211> 237

<212> DNA

<213> Enterobacter cloacae

<400> 5099

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gagaagttgt	acgttgTTTT	ttgtattcca	agcgtgaaa	ccattcacca	gggatttggc	120
gcgcattata	cgctgattta	cagtaaaaaag	gaaaatggaa	acagcgtttc	aaaaacaatc	180
tgtgcagatt	cacataagtt	tgttatcaag	gcgttaaggc	ctaattgtcat	cttatga	237

<210> 5100

<211> 186

<212> DNA

<213> Enterobacter cloacae

<400> 5100

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cgaccagtga	atgcggagaa	cagcgcgcaa	cgtgttcttg	agtcaatact	gcctgtcgcc	120
agcctgtatg	gcgtggacgt	agccaacatc	gaccgggagt	ggttccatga	taaaacgtca	180
cgctga						186

<210> 5101

<211> 1319

<212> DNA

<213> Enterobacter cloacae

<400> 5101

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accgtaagct	ggcattcacg	accgtcctgc	aactaccgct	cggatgcggg	gctttacctg	1260
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<210> 5102

<211> 573

<212> DNA

<213> Enterobacter cloacae

<400> 5102

accgatagtg	aatcagccga	tacagcttca	cttctgagca	taggtcttac	tcacacctac	60
cttacaaata	gtcaactcat	tggcccgcca	tcaaaagcgg	gcttttttta	tttcaggctc	120
aaggaaacat	catcgacacg	cctacttggt	aaatcgctcc	gagggcctga	cctaatacat	180
cagcaccaag	caggtgcgaa	catgaagaaa	accactatgc	aagacagacc	agatacctgg	240
gcggtgatgc	ttgcgtggct	tgtaaaccac	aaaaacgaag	ctggctattc	ggtactggct	300
tttgtcatgt	cgatactcgc	tacctcgcgc	ggcgcgaaat	caaagtggaa	agaccggatc	360
gccggcgcaa	cgatgtgcgg	gatcctatgc	ttcttcgctc	agcctacact	cacggctata	420
tgggcaatct	tcaactggaa	ttttccccc	gagctttgct	ggcccatctc	ggctggcgctc	480
gggtatgtgg	gggtggatcc	gcttttcgcc	tatgcgcgcc	gtcgccctgg	cctgaatgaa	540
ccgggagaca	aagcaaatgc	tgaccctcag	taa			573

<210> 5103

<211> 474

<212> DNA

<213> Enterobacter cloacae

<400> 5103

tggcgggttt	tctttttcca	ggagacagct	atgtctgcac	tttatgaaaa	atcgacagctg	60
acgaagatcc	ttattttcctc	cctgccagcc	accaaagaaa	cgatggattc	cgcaaccttc	120
ctcgatctga	gttgacccat	caaagaaatt	cagttcaccg	gtggtcagaa	gcaggatatac	180
gacgtaacaa	cactttgctc	taccgagcag	gagaacatca	acggcctgcc	ttctccgtca	240

gaaatctctc	tgtccggcaa	cttctacaag	aatccggcgc	aggacgcctt	gcgtgaggcc	300
tatgacaacg	atacgacct	cgctttccag	gttatcttcc	cgccgggcaa	gggctttaag	360
ttcctggctg	aaatccgcca	gcacacctgg	tcttcaggta	ccaacggcgt	agtggcgga	420
acgttctccc	tgcgcctgaa	aggtaagcct	gaaaacatcg	agtctggctc	ctga	474

<210> 5104

<211> 441

<212> DNA

<213> Enterobacter cloacae

<400> 5104

gggctaataa	tgacgatctg	gctgggagcg	ttaaagaact	tgctggcgcc	gttaacaggc	60
aaaacgttgt	catgtctgaa	gtcgcagaac	aacgggctga	gtcggccaag	cagaaccgaa	120
tgctccagag	cgagattaag	cgctacctgg	cggcagataa	gtgcgctgct	gctcctgttc	180
ctgatgccgc	tggtgagcgg	ttgcgcgcag	cagcagaagc	cgcccggtga	ataccgggtg	240
ataaagcatc	cagccctgaa	ccttccggcg	gagctgacgt	cgcgcttga	tgtgccggat	300
ctgccagaca	atccctcata	cggtgacagt	gtttcgatga	acgcgacact	ttacgggata	360
gtcggtcagt	gcaacatcga	cggggaagca	attcgcaaaa	ttgagaaagg	gcgaaatgat	420
gaaaaccaac	cagtgcagtg	a				441

<210> 5105

<211> 702

<212> DNA

<213> Enterobacter cloacae

<400> 5105

agccaagaca	gcacgcgaac	gcctgaacag	aaattaagta	acgaggtgaa	gatgactgaa	60
tcgaaatatg	gttcagggct	tccgcacgcc	catgctgcct	gcattgtgga	tgatgcgaa	120
ttatcggtac	gatcccgtaa	cagccactac	tgtgaaaagc	attacatgcg	cgccggcgct	180
catggaaacga	cagagaagct	cagacaaga	aaggatggca	agctggagca	cactggcgga	240
tatctgctgg	tgtatgcgcc	cgatcctcct	ttggcatgtg	ggagtcctcg	tgtttacgag	300
caccggaaag	tctattacga	caaacatggg	gctggacgct	tccgttgtca	ctgggtgtgca	360
aaaaccgttg	gctgggacac	ccttcacatc	gaccacctcg	atgactgtaa	gaccaataac	420
gagcctgaca	atcttgtgcc	aagttgccct	gtgtgcaatc	agaagcgagg	cgtagacaag	480
atgagaaaaga	caatgcgaga	gaactccgac	cgcagatata	ccgctcacgg	caagacgatg	540
tgtcttaacg	aatgggcgga	ttacctgggt	atttcgagaa	actccattga	gtatcgactg	600
aaggcaggct	gggacatcag	tatgggtgtc	agccctcgca	ttggtaacag	tggtcccccg	660
agccggaaaac	tggcgaaaat	cgtgcgatgag	tcgggttaaat	ga		702

<210> 5106

<211> 465

<212> DNA

<213> Enterobacter cloacae

<400> 5106

gcaggggata	gaaaaatgat	tgagacgagc	ctcgattttt	ccggcctgaa	tgacatcgca	60
aaggatcttg	aggcgcttag	ccgcgctgaa	aacaataagg	ttcttcgtga	tgccacgcgc	120
gccgggtgcg	aggtgcttaa	ggacgaagtg	atgcacgctg	caccggtagc	caccggaaaa	180
ctgaaaaaaa	acgtggtggt	tgttacccaa	aaaagccgcc	gccgcgggga	gatttcttcc	240
ggcgccata	ttcgtggcgt	taacctgcgc	accggaaaca	gcgataacac	gatgaaggcg	300
aataaccgga	gaaacgcctt	ttactggcga	ttcgttgagc	tgggcaccgc	gaacatgcct	360
gcacatccgt	ttgtgcgacc	cgcttacgat	actcgcgagg	aagaggccgc	cagcgtcgcc	420
attgccagga	tgaatcaggc	tattgatgag	gtattgagca	agtga		465

<210> 5107

<211> 288

<212> DNA

<213> Enterobacter cloacae

<400> 5107

aaacatcgag	tctggctcct	gagaggtcgc	atgaagaata	ttaaaaatct	cgccctggct	60
------------	------------	------------	------------	------------	------------	----

aagatgtcgg	gatttcgtca	taagacggtc	gccgttcctg	agtgggaagg	cgtcaaagtg	120
gtttcccg	agccgtctgg	agaagcctgg	ctgcgctggc	aggaggtgg	gaaagcgggt	180
gctgatgatg	aaaatgtgtc	ggtatcgga	aaggcacacc	gtaatctttg	cgctgacgtg	240
tgctcttcat	tgacattcga	ccacggcggc	tggtatagac	cacgctcc		288

<210> 5108

<211> 231

<212> DNA

<213> Enterobacter cloacae

<400> 5108

gttgaaaagg	gtaattgtcg	agaggtattt	cagcgcgcca	tcgctttatt	ccatcaatgc	60
ccggaaaatc	cgtttacgtt	tcagttaaac	gagtttattt	acgattgcgt	attattgatc	120
cgtaataaca	atgacaaagg	ccacctgcgg	gtggctttat	ttaatggcgt	taaccagcga	180
gagggatccg	gcacaaacgg	tgcgacagaa	ataattagcg	ttgtaacctg	a	231

<210> 5109

<211> 183

<212> DNA

<213> Enterobacter cloacae

<400> 5109

accttcaatg	gagggatatt	ccgtgcggta	actgacgata	accggatggc	gaaggttgag	60
aaagtgatgg	gcgaggccga	tgcgacggcc	tgcgccagtg	atcaatattg	ggcgttgctg	120
cgtgtgtccc	atcgtaatct	ccttttcagt	tcaacaatgg	gacaggcgac	gctatcccat	180
taa						183

<210> 5110

<211> 189

<212> DNA

<213> Enterobacter cloacae

<400> 5110

cttttacaag	ttaatttaat	gttaatgagt	tgttctatta	tgccgctata	tcattgtttt	60
accgcttcgc	ttgcgcgatt	tatcggtcct	gaaggcgaat	ttaaggtaaa	tatctctgtc	120
agtaaccccg	atcgcttatt	tttcacagat	aaagtaatct	tcaccacgcg	gtcgacggtc	180
aacgaacga						189

<210> 5111

<211> 282

<212> DNA

<213> Enterobacter cloacae

<400> 5111

ggtattcata	tccattccat	tcaaaaagta	ctgattaaag	ggaatgatac	acgcagagag	60
aaaattcaga	cagaggcggg	ggaaagacgc	gtgaccggga	acccggtcac	gcagaatgat	120
tacagcaggt	cgccgatcat	tttttccagt	ttttcctggg	cgatagcaaa	cttacggata	180
ccgtccgcca	gtttatctac	ggccattgga	tcctggttgt	gctgccacag	gaactcggac	240
tcggtgatgc	gctcagggcg	cgctttcact	tcgccagtgt	aa		282

<210> 5112

<211> 198

<212> DNA

<213> Enterobacter cloacae

<400> 5112

cctgtgctat	atctgtatgt	aatgcagtca	cccttcacgg	atcgaaggga	tcattgaatca	60
ggaggtotta	tgaatgaatt	caagaggtgt	atgaacgtgt	ttaccactc	tccttttaaa	120
gtgcgcctga	tgctgttgaa	catgctgtgc	gatatgttta	acgccaaacc	ccagcaggac	180
gacaactctt	cccactaa					198

<210> 5113
 <211> 525
 <212> DNA
 <213> *Enterobacter cloacae*

<400> 5113
 aatttacagg atgcattgat gaaaaggata tttttatcag tcgctatggt gctgggtggga 60
 tgtagttctg ctgccagtca agagcagagt gcgaaagata ctaccgtatc attttataaa 120
 tcctatcttt gtgcattcgg cagtaatgaa gccaggccct atcctgccga cgaactgcgt 180
 aaatatgttt ctgctgatac tattgctcgc attggtgcta ttcaggaaat cccggaacaa 240
 gaattaatag agtctgacta ttttacgtat acccaggatt acgcccgcga atggatacct 300
 gcgttacggg tggaaaacgc aaggccattt ttaaacgggg aagtagtcca ggtgatggaa 360
 ggggcagggt gcgggaggag cattcacctt gaagtatttc ttcgtcgtga agatgatgca 420
 tggaaaatct accgcgttcg tgacttaacg aacaatcacg agcatcccat attcaatgcc 480
 ggagcaattg cccaggcaaa aattgcagcc gaaagcgggc tttaa 525

<210> 5114
 <211> 441
 <212> DNA
 <213> *Enterobacter cloacae*

<400> 5114
 gcattattta aocaaacatca ggttaatgac tggcacaata attccgttct tacttaactta 60
 agggaactaa gaatgagttg gaataaagat gttgctgttt cgtatctccg ttcacacgcg 120
 ctggggcact ctcatagtga atgtgctaag tttaccgcgc tggcgattct ggctggaggt 180
 gttaaggtgc ctaatacaga ttatgcaaaa gattatgggg cggaattatt acgtgctgga 240
 ttccgtgagc tgccgcccgg ttcgacttta atagctggcg atgtggctgt gatacagcct 300
 tatcccgagg gaaacggcat aggtcacatg actatgtatg acggcacgca gtggatttct 360
 gattttgttc aaaaaagcat gtatccgggg cctgggtacc gcaaaatgca accatcattt 420
 aaaatttaca ggatgcattg a 441

<210> 5115
 <211> 192
 <212> DNA
 <213> *Enterobacter cloacae*

<400> 5115
 aaacgggggc gagctaccgg ctggtattac gcgacgcacc cggccctgaa aacgggctgg 60
 atgcgtttcg cgctgtctg ctcagtcgag gctgacgtgg tgtttcatca cccgtttgaa 120
 gaggtcata cgggcacgca tgaagcgggt ttcaagccga aaacctgcat gtttattcac 180
 accaatacgt aa 192

<210> 5116
 <211> 210
 <212> DNA
 <213> *Enterobacter cloacae*

<400> 5116
 ggattgaaat tttccggcga tccttcggag caatacacca gcgtttttgc cgcgacgggtg 60
 gaactgaccg tcagtgcagc aagcgccagc gttatcattg tgaatgtgct tttcatcatt 120
 tattcctgtc tttttaattc gacggctaatt tacttctttt gccatttcat aaataacatt 180
 aaagtgatgg cgcaaacaca tgaaaaataa 210

<210> 5117
 <211> 522
 <212> DNA
 <213> *Enterobacter cloacae*

<400> 5117
 ggatgttctc actatgtctg cctttgtcta cgcttatttt atggtgcgaa attagatttg 60
 cataagatgt gccagaaaag cagcattttt acacgacaaa acagcaatat agcgagtaaa 120

gaggggtttta	tggaatggaa	ggttggttag	actattgcga	gcccggaaaag	cggaactatc	180
ttttgcaaag	ttgaaacaca	gtatggcctg	aattatatcc	tgtgggttaaa	gggagattat	240
tacgttcgta	caggtgaaat	catcaccacc	tcaaaaccagg	ggatcctgat	aaacgatcga	300
cgccgtagag	tatggatagc	gcaggcaatg	ccctttacat	ccataggctg	gatgggggttc	360
aaacagaaaa	acgcgtgtcc	aggcaaccgg	caagagatgg	atcgctcgtg	cacggctgaa	420
accccggtgc	agttcaaact	gtgcccgttc	ggcttaaaac	ggtatatattc	ggaaagtatt	480
tccacgacga	aaattaacaa	ccatcctgac	ggcaggcttt	aa		522

<210> 5118

<211> 183

<212> DNA

<213> Enterobacter cloacae

<400> 5118

atagttgagc	aaataactca	ggtattcagt	acgacattgc	tcacattgct	tccagtattt	60
cttgcccact	tttttagtggg	cttttttttt	tgcctcaacc	cacaaaaatc	tggcggtttt	120
tctgtggagg	tgaaacgcta	ttctctgttg	cttctgaata	acaaaaaagc	gttgataaca	180
tga						183

<210> 5119

<211> 843

<212> DNA

<213> Enterobacter cloacae

<400> 5119

cgaggtggct	ttctgatggc	taactcattc	aagcaaata	cccgtgacgg	gaccatcaag	60
cgcaccgata	cgggatgtt	catcagcctt	gaccaaatac	atgtgcggga	aggtttcaac	120
aaacgcgaag	atgatgagcg	taccgcgcag	gcagatgatg	acctcttcaa	ctacctgatg	180
aacggtgggt	ctgttctctc	actggaagtt	atcgcccgcg	atgaaggtgg	agtgtgggtt	240
gttgaaggcc	accgtcggcg	tcgtgtctat	gcgcgctgtg	cagaagcagg	taagccagta	300
gaccgtatcc	acatcatgcc	gttcaacggt	aacgatgttc	agcgccctgg	gcgcacatcg	360
accagtaaca	accagctccc	gctatccgat	atggaacagg	ctgctgttat	tcaggagctt	420
cataatgcct	tcaaccagac	caccagcgag	atagcaaagc	tggtttaata	gtctgtccct	480
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tccggggaccg	tgtctgtaga	tgtggccggt	gaccgagtaa	aagagtttgg	cgaaaaggcc	600
ggtgaggttc	ttcagaagga	taaagcttct	gctgctgcc	aaggttaagaa	gaaagtcacc	660
cgcagcggtta	tagcgcgcaga	aattagcgtt	aagaaagcgc	gtcgccttgt	agagctgatc	720
agcctggcgg	gtataagcga	cacaggtggt	atctatctcg	aaggattggt	ccatgcagaa	780
gtcgtggaga	ttatcgacga	gcacaaagct	atcgccgttc	agcgtcatgg	agaagcatca	840
tga						843

<210> 5120

<211> 282

<212> DNA

<213> Enterobacter cloacae

<400> 5120

tcagcccga	gtccactggt	caaccttcca	cttgaagaag	cgtcagacat	tattcgtgaa	60
agtcttcgca	ctgaggttcg	ccacgagctg	gaatatgaat	acgatgaccg	tatttcttct	120
gctgaagaag	aggcatctga	ttgggaatca	cgggcagaca	gttacgaatg	cgatgcgatt	180
agttttgcc	gagcgataga	gaaagccttg	cttgaccaa	ccttgatga	agcaaaaatt	240
attctogaac	gcgttcgttc	tgataatcgc	gaatattttt	aa		282

<210> 5121

<211> 462

<212> DNA

<213> Enterobacter cloacae

<400> 5121

tacttaatga	atattttacga	atttggcagc	attcaagtgc	cgggattcgt	gcaacaaaaa	60
ttcagcgctg	tgcagagcgc	tcataacacg	gagaaactat	ccatgacgaa	cacacagaa	120

gtcaccgagt	tacaaccacg	tatgaccogg	gagcagctga	tcgacgcagc	gcgtaaggca	180
gccccctctcc	ttccgccagc	ttatcgccgc	attatgaccg	aactgggctaa	ccgcctggac	240
tataccagcg	tcgcgctttg	tgaggcgatg	gctcagcgta	aggaactggc	tggttcagaac	300
gctactctgc	gtgaagatgt	cgcaagctgg	gocaaagagt	gtgaccgcat	tggtgaacgc	360
cacacgaaga	gcagaaccaa	tatgcattta	ctggaagccc	agcgagaatt	gcgtgagcta	420
tcacccatcg	tcattttcca	aaataacgag	gtggctttct	ga		462

<210> 5122

<211> 339

<212> DNA

<213> Enterobacter cloacae

<400> 5122

ccagtttctg	gcagtacgtt	tgcgagaaga	agtatgtttc	agttaaaacc	gggcagcatg	60
gcgatgatcg	tgggtgcgcg	tacggcggca	ggccgtcgaa	atatcggtaa	atccgtggag	120
ctgtttggcc	tttgtcagcc	gggccagcgt	tttgtaaacc	cggttaacgg	cgatcatgac	180
caattacctg	atacatcagc	acgtgcgctg	tggtctggtca	ccggtgatgt	ttacgccttt	240
gataaccagc	acggtttttg	gtttgttgcg	ccggaacatt	tgatgccgct	aactcccagc	300
gagatgccac	acaacgtgga	tgagctggcg	atcggttaa			339

<210> 5123

<211> 219

<212> DNA

<213> Enterobacter cloacae

<400> 5123

gttttctcac	catatgccat	acccgggtcat	ggatatgagc	tggcagatag	cgaacatcac	60
cgccgtgata	actacaactt	tgactggagg	cattattcgt	cctcctctcg	accaaggtat	120
gaaagagagc	tgatcgccct	tggtttaaaa	tcacgcgccag	aaatcaactc	cttcaacttg	180
tctaaatcag	cctgcgattt	tatgcggaaa	gtaagttaga			219

<210> 5124

<211> 198

<212> DNA

<213> Enterobacter cloacae

<400> 5124

attcttctga	aagcggatga	gggagaggct	aaaaaaagcc	ccgatgttga	gatcggggca	60
aaacatcttg	attacggaat	gatgttctct	ggtcagtgtg	agaacaggta	tcactataag	120
agggaatcgt	gcaggtttaa	tggagaaatc	atggagaaaa	cggcgatgac	ccgttactct	180
gacgttttta	caccctga					198

<210> 5125

<211> 282

<212> DNA

<213> Enterobacter cloacae

<400> 5125

aataattact	ggcatcggca	cgccgatgac	cagcctgcgg	agttcggcta	tttcgtcggc	60
ctgctccatg	actctggcgt	acaggctccg	ggcttcacct	ttccaccagg	caacgtcggc	120
tttaaggcgg	cgcaggcgcc	gctgtttraag	ttttctcacc	atatgccata	cccggatcatg	180
gatatgagct	ggcagatagc	gaacatcacc	gccgtgataa	ctacaacttt	gactggaggc	240
attattcgtc	ctcctctcga	ccaagggtatg	aaagagagct	ga		282

<210> 5126

<211> 186

<212> DNA

<213> Enterobacter cloacae

<400> 5126

tgggtcgtcg	tcccggtcac	gtcatcagac	ataacgattt	cacctgtgat	ttgccaatac	60
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gtagcttgc	acattagcac	gggacggaga	gggctgaaag	aaaacagcca	gcgggagcgc	120
tggtgttg	gtcatgcgtt	gctggtggat	gactgtttct	ggagcaattc	gctaaaattt	180
aactga						186

<210> 5127

<211> 210

<212> DNA

<213> Enterobacter cloacae

<400> 5127

ccttcatt	ccaggttaag	acgcaggagt	gccgcgatat	cgtgggtcatc	ttctaccagc	60
aggatctgct	tcattgggttaa	gccttcaatc	atttggttatg	tcgtaagctt	acctgatttc	120
gagcggggga	agagttcaca	ttttggtgaa	cattgtgtgg	ggtttatgcc	ggggggcggc	180
ttcgcccttac	ccggcctacg	ctttggttaa				210

<210> 5128

<211> 399

<212> DNA

<213> Enterobacter cloacae

<400> 5128

gcctgtatca	tgatcatcaa	aaatcaatcc	cagtattttt	caattgctgt	atacatccct	60
gaggagttga	agcagacttt	tgtagaagaa	tgcagtattg	tcggcattga	cgccaaaaga	120
gtacaatgtt	tctcctccaa	tccaggcata	cgtgaatata	tgagcatttt	agttgaacgt	180
gggcagaagt	ttgcgccata	ccttcttaag	gtactgaact	tggtgcagtc	aaaatccaaa	240
ataagaattg	aagtcgcagc	cgatagaaaa	atcatagact	tacaagggtg	aagtgttgat	300
gatgctctaa	agttgattca	agctgctgat	gccattcggt	taattgacca	gcaagaaccg	360
gaagatatga	acagtgatcc	cgcaaaaacac	acaatctga			399

<210> 5129

<211> 315

<212> DNA

<213> Enterobacter cloacae

<400> 5129

aacgataata	aaaaccgagg	taatgtaatg	aatgataaaa	aaatacaaat	agttgagcta	60
ctgattttcac	atagtcaaat	gttggttacg	tccagagact	atgacgaaaa	gctgaattac	120
tggggaaaaag	gcaatgtttc	tcaagggtgct	gttcttcaca	aagattatgt	tatattcgac	180
ccattaccag	aggacgcatt	tggagccaac	gtcaatatca	aaatagataa	ttctttttata	240
ttagatgaaa	ctgctcaacg	ctgcattgta	gtgccatttt	ttattacaaa	taaaaataag	300
cttcagggtcg	catga					315

<210> 5130

<211> 687

<212> DNA

<213> Enterobacter cloacae

<400> 5130

actttacaga	aggaatcatc	catgaaccaa	tttacagagg	acctacataa	tgtagtagct	60
caaatcttag	ccggcgcaga	aatctctgat	agtgaatttt	tcaaagaatt	aactattgaa	120
cctgattttt	acaagggtgca	ggaccagtat	tacgggtggaa	atgggtatcta	tttcaactct	180
gaatcagaaa	cccgcttttc	actgcgtagc	aaatccaaaag	gtgtattgta	tctggccacc	240
acggcattta	cagggctgaa	agagttttat	caggatgctc	cgcttggtga	aactgaggat	300
cttgagaaaa	actgtatggc	ggtaatccag	gcagcacgca	caatcaagat	tattgattta	360
gctgccctgg	cgccccatct	gaaaactccg	ttaggttatt	tgatgggctc	taaagctgtc	420
tatgaggata	ctcagtggct	ggcagaagtg	ctttctcatt	atgctgatgg	tattgaatat	480
ttgtctcgac	acacoggcaa	aacctgtatc	gcgttggtgt	ctgacaccgt	tgatggaaac	540
ggaatgctga	agaacatctc	agtcactccg	ttaatccagt	tcagtctcaa	cggacaaaag	600
acgcaggcga	tcttaaaaatc	aaagctgggt	attcttactg	tcttcaccac	aggggggcgg	660
gcgaaccgcg	ctaagcaagg	cgggggaa				687

<210> 5131

<211> 186

<212> DNA

<213> Enterobacter cloacae

<400> 5131

actccaattg aagcaattaa gggtagcgaa atatatacctg gcggtttata tgcgctgggtg	60
ttcagagccc agggctttta catggatgat tttccgtccc tgcggggccg gaattcagcc	120
ccgggcttta tgcccgttaa ccgggacctg gtttcaggt gtcataattt tccttcattt	180
gaatga	186

<210> 5132

<211> 306

<212> DNA

<213> Enterobacter cloacae

<400> 5132

ggaccaaaaa tgaaaaggac gctttgtaca gtgctgacgg cactcacgct ggcgactgcc	60
ttgcctgcta taggcgtac caccgaagca ggtagcacca gcgcagcaac aaccggaaca	120
acaaccggag caacgggtggg aactaccgct ggcactacgg ggggactggc ggcaggggag	180
attgggacaa ccgctgttgt caccaccgct gcgattgccg gcgtagcgac gttagccgtt	240
gtcgcggcaa gcgacagtgg cgatgactca agcaatggta cttccacgac gacagttacc	300
cgctaa	306

<210> 5133

<211> 186

<212> DNA

<213> Enterobacter cloacae

<400> 5133

tgtagcgcaa agaaaatagc gccgcacttc agcctattac caggccagac cgaaacgtct	60
atactcgctt caattagccg ccacgacggc gaaaggatgc aaaactatta tggctcactc	120
acatttatta gcagaaagaa tttcccgcct cagcagtgcg ctggaaaaag gcctttacga	180
gcgtag	186

<210> 5134

<211> 255

<212> DNA

<213> Enterobacter cloacae

<400> 5134

tggaacctat gtaaagcctg tgaaggtagc gcagacttcg cgataccacg tgccattaag	60
accgtaggac gaggtcatgg ttgcaggctt taccgttctt tacgacgttg cctggccatt	120
gctgacttgg gtggggcgga taatgtagca ccgttatata ttatgagcta tcaactcgttt	180
ttgtttaaaa aagcggcaat tgcggagtgg tttgattttg ctattgttaa atctgcgttc	240
ccgcatgcct cctga	255

<210> 5135

<211> 339

<212> DNA

<213> Enterobacter cloacae

<400> 5135

aaagcaaaat tcaaggctga caaagccagt aatagcaaca aagaggaaaag agaaactttt	60
ttcaggtttt ttacagctcc ggccttaaaag gccgcacggc attttctaaa tacagtttta	120
cataaggaaa atcgtatgac tgtatttcta atcctcaccg ccacgcgata tggcatcttc	180
aaagccggct gcttcactct attagtggtc aaggggtatc agggctggac attgttctgg	240
aaaaactatg accgtctccc tcatatcacc cgttcccgcg gccgatatca gagacgattc	300
attttcagac gcactctggaa gcgaatcttc agccactga	339

<210> 5136

<211> 324

<212> DNA

<213> *Enterobacter cloacae*

<400> 5136

ctgtttctgg	acattatcaa	tcttggtatg	gacgcccaga	ttcagcgtga	gcatatagaa	60
caacagattg	atatgagcct	cggtagcggc	attaaagctg	cggttcagacg	ctcgatcatg	120
actacctcca	acgcacattt	ctgccgtaag	acgggttccc	tgatgttcca	gcaccgcata	180
aagatctata	ccacgtcgtt	tcacctcacc	aagtacatcc	acggaaggcg	tttcgaaaca	240
cgcatacatc	tggtctataa	aotgotgata	ggctatgccg	gcattttcaa	atcgctcatc	300
cctgatggcg	tccagtatct	gtga				324

<210> 5137

<211> 282

<212> DNA

<213> *Enterobacter cloacae*

<400> 5137

gtgtcatttc	gtgtctttta	ccataaccct	tcgagcacgg	ccaggaaact	ggccagacca	60
atgggtattg	ctgggaaaaa	aatgtggaag	gaaacagtaa	atgcaaactg	taccctggcc	120
aaatggaagg	catctaattc	gaacatagtt	caccttaacc	ccgataatac	actgataatt	180
aattatttct	tatcaaatca	gagccttgat	gagaaatttc	gactattgaa	aacaatcatt	240
tttttgtatg	agataaaaac	tcacttgcaa	gtacattggt	aa		282

<210> 5138

<211> 570

<212> DNA

<213> *Enterobacter cloacae*

<400> 5138

gcaatgacac	aggcgcgacg	cccgtcaccg	ctgcagcggc	gggtgctgat	tgtgctggcc	60
gccctggatt	cgaaacgtcc	ggggccgggtg	gccacgcggg	atattgagcg	ggtgctggaa	120
cagggcgggg	acgccccggt	gtacgggccc	aacctgcgcg	cctcctgccg	gcgcatggaa	180
gcagcgggct	ggctgcgcac	cctgcgcgcg	cctaaccagc	agctggccgt	ggagctgacc	240
ggggccggac	gcgatgtggc	ggaaccgctt	tatcaggcag	cccgtgatga	cgaaatctcc	300
cgccagcgcc	agttgaagg	gcacagtctg	cccttgccgcg	agtcgacaac	cggtagggcg	360
gtggagggtt	ttctcgggtg	cagccttcac	cgtatctgtc	aggcagccta	cgtgatccgg	420
ctcgacggct	ccacctgtct	gcaagtgcag	aatgcagggtg	gaatacgtca	gataatggaa	480
ggcgatcccc	tgcagggtgg	tgacttgat	cagacctggt	atgacgcggg	tcttcgggta	540
catatccaga	ttaacgagag	ccaggattag				570

<210> 5139

<211> 306

<212> DNA

<213> *Enterobacter cloacae*

<400> 5139

tgcgcttgca	aaggcgattt	catccctgac	ctcggctctgc	tgaccaacaa	tcacaaactg	60
ttccggcgct	agacggtgaa	caagaaccgc	atattgtaca	ccggtgatgg	tggcgttctg	120
aaaaccttcc	ctcacgggcg	cgggcaaatg	aaagggtgatg	cctgtgtcat	cgttttgcgt	180
accogagacg	gtgagatatt	ccaccagtat	tttgccatcg	ctgtcctcgt	cggccctctt	240
ttgccccctt	atttcggggc	gcgcgttatg	tccgggggac	ttcgtgacgt	aagctatctg	300
ttttaa						306

<210> 5140

<211> 297

<212> DNA

<213> *Enterobacter cloacae*

<400> 5140

ctaaaccgga	cattatcaga	cggagcgtgc	aggatggatg	agaaagaagt	gaatttttca	60
------------	------------	------------	------------	------------	------------	----

ctcagctatg	agcagctgac	cgggatagcg	gaagaacgta	tccgtgaatg	cgagctggac	120
agtcaggcgg	ctaaatacat	cagcgaatcg	agtatggcca	gcacccttct	gcaattctgg	180
tatgaactgg	cgattactgg	tgcgccaatg	aaaaattacg	aacaaaccaa	agcgctcatt	240
gacgtcgatc	atcagcgtct	cagaaaactc	atctggccgg	agacggataa	gcaatga	297

<210> 5141

<211> 417

<212> DNA

<213> Enterobacter cloacae

<400> 5141

gttcccatga	aaaaaaccaa	atacagattt	gagagtgatg	acgatccctt	tgtatctaaa	60
gatgttttga	ctctgatcga	caacggactt	gtgtttctgg	ataaggcgcg	tgaagaattg	120
caggactcca	tgcccaaatt	ttcgattgtc	agttttctgga	cagcggtcga	gatcctgctg	180
aaggtagctt	tgttacatga	gcaactggagt	ctgggtgtgct	ccggcaggaa	aatagagcga	240
gcaaggtagc	ttgcagggtga	tttccagtcg	gtgacatacg	atgaaacatg	tcagcgatta	300
gctgatgttc	tggaaacccc	tcttcctaaa	gaaaccatcg	acgtattcaa	aaaagtcaaa	360
gaccatcgca	acggggtggt	tcatttttat	cattccgatt	ggcactgttg	caaatag	417

<210> 5142

<211> 582

<212> DNA

<213> Enterobacter cloacae

<400> 5142

aatgtaaggc	ctttgaataa	gacaaaaggc	tgcctcatcg	ctaactttgc	aacagtgccg	60
gacatagatc	caaaacaaac	cccggacgac	gcagcatatg	cctggagtaa	cattgtagac	120
gacgccagaa	gtaatcaggc	ggtaccggca	ttgtccttgt	attcaggtaa	tcactggtct	180
acggcaaagg	aaatttttaa	ctcaaccaga	aatctggagt	tgtggataat	ctctgccggg	240
atgggttttt	taaattgtag	agatcgggtg	ccctcttacg	aggcgacatt	tcataaagta	300
ccattcaggc	atgatctctg	gtggaaagcc	atcacaaaat	cactaggaaa	gcataaccgt	360
tgcgcaacta	taagccagtt	aatgcagtc	agtcggaatg	atgaatattt	gattgcggct	420
tcgcctgttt	atattgtctg	tgtccagaat	gacatcctga	agggcattga	gagtttgact	480
cactctctta	cgcaactaac	gatcgtgaca	tcaggggcat	atgctggccc	acttgaagaa	540
tacttaatta	agagttcttc	ggtaatgact	ccaacttatt	ga		582

<210> 5143

<211> 213

<212> DNA

<213> Enterobacter cloacae

<400> 5143

gttaacgcgg	ctatgctgtc	cttaacaaac	aaggaggaca	atcacatgaa	cataaagacg	60
ttaaaaaatg	atacgggtgga	aaccgtgtca	tttctggtga	aggctctgtt	tttctgtgta	120
agaaagatat	atctgaagcc	ggcagtcgcg	gtatgtccgc	tgccgcagac	actggcggag	180
tgccggatat	acgcagcacg	gagtatctgc	taa			213

<210> 5144

<211> 1068

<212> DNA

<213> Enterobacter cloacae

<400> 5144

tatagcaagc	ccacacagag	ggaaagagga	atgagccagc	aactgcgcaa	gcggtctgac	60
attgagaaaa	aggttgcggc	cggagaggct	gttaaggaac	agccgcgtca	gctaatacagg	120
gacatatca	ccgggaaaat	catttctaac	gagcgggtgc	ctgaaaacgt	cccggcctgc	180
ctgatagcga	tgcagtcgaa	tacgcttgct	tacaacgatg	tagatgtgga	ggcctttcag	240
cggaaggtcc	gtcagcaggt	atcacagata	ctggacgccca	tcagggatga	gcgattttgaa	300
aatgccggca	tagcctatca	gcagttttata	gaccagtatg	atgcgtgttt	cgaaacgcct	360
tccgtggatg	tacttggtga	ggtgaaacga	cgtgggtatag	atcttttatgc	ggtgctggaa	420
catcagggaa	ccogtcttac	ggcagaaatg	tgcgttgagg	gtagtcatga	tcgagcgtct	480

gaacgcagct	ttaatgccgt	cacgcaggct	catatcaatc	tgttggttcta	tatgctcacg	540
ctgaatctgg	cgatccataa	caagattgat	aatgtccaga	aacagctacg	tactaaaactc	600
ggttttctgg	aagagcggct	cagaacggtg	cttaacgagt	acatctatgc	aaatcaactt	660
ggccggatcg	ttctggacgg	gttacatgca	agcgagaccc	tttatggctg	gattttgctt	720
gaaaaaaatg	acctggatgc	tgcocgggtg	atttataaga	atgattttaa	gctgaataac	780
gaaatgaagt	ttgccgagct	tcatgcagag	gtgatgagca	tctacaaaaa	gagatacaca	840
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agagcacaat	tgcgttttaa	gctgtgttat	taccttcacc	agacaggaca	gattaggaag	960
tatatcgatg	agctgacgct	gggtgctgat	aacaacgaca	cgagtgcgac	taccgtggat	1020
gtccggtccc	tcctggttcc	ctctgcatcc	gggctcgcaa	ctcaatga		1068

<210> 5145

<211> 186

<212> DNA

<213> Enterobacter cloacae

<400> 5145

aataattgtc	tcgtcagaaa	aaogcctcaa	gggtccggat	attccggcat	aaccagcatg	60
gggtcatattg	cctgtagggc	ctggaactca	tcaatgcagc	tgatcctgaa	cacctcccgc	120
gggtctgtcga	cggtagtcag	ctccttgctg	attattttatt	cctttgtttg	tgacatctac	180
ttctga						186

<210> 5146

<211> 375

<212> DNA

<213> Enterobacter cloacae

<400> 5146

cacaccatga	aacgcacaat	tttttttggc	ctttctacat	ttttactggc	aatgactgcc	60
agctctgtat	acgccagtac	cgaacacacc	ggatatgtctg	acttacgggt	tcagaaaacc	120
gctaattgcc	gtactgttaa	tccagggtca	catcggttgcg	aggccccctt	tactattggc	180
cgggataata	ttgcaaaacc	agacgggtca	gataaaaact	actgtaatcc	gggatcacat	240
cgttgctgagg	cccccttttc	tactggccgg	gataatattg	ccaagccaga	cggaacagac	300
aaaaactact	gtaaccctaa	ctccagaaaa	tgtaatgcac	ctttcaccac	cgacatgat	360
aatattaatc	agtaa					375

<210> 5147

<211> 183

<212> DNA

<213> Enterobacter cloacae

<400> 5147

gctcgccagg	gatgttctat	gaatacgaaa	ttacaggcat	cgttagtcaa	ggtgcctcag	60
attaccctta	cgttctggat	agtcaaaata	gcagtaacca	ctttgggtga	gaccggtggg	120
gatgctgttt	caatgtccat	ggggataggg	tacgcgggca	gggtaatgac	tccaacttat	180
tga						183

<210> 5148

<211> 237

<212> DNA

<213> Enterobacter cloacae

<400> 5148

tcacctaaat	ttttcagtaa	gttacacata	acccccccca	ctattaagaa	ttactctcaa	60
cactatttgt	atcgtgcagt	atcaggaatg	atcgtggttg	ctgacacaat	aacgaaaatc	120
ctgcattttt	gtaatcgacc	tcacttatca	ctacattatt	gcaacttatt	ggacacattt	180
aatcatgtgc	ttaacaatgt	acttgcaagt	gagtttttat	ctcatacaaa	aaaatga	237

<210> 5149

<211> 837

<212> DNA

<213> Enterobacter cloacae

<400> 5149

tctgcggtgg	aagcagactc	accgatgaa	tacggcaaca	gtcatcccag	gcaggaaaca	60
atgcgaccac	aacaaaatac	gtccccggt	ttcccgatga	ataaagttcc	tgaagtcaca	120
ctctttttct	ggctgataaa	aatgatgtcc	actaccgtgg	gtgaaacagc	ggcagacttc	180
ctgaatatgg	atctcaactg	ggggctgact	aatacctctc	tgcttaccgg	catattgttt	240
gccgtggtac	tgacctttca	gttacgtgcg	aatcgctata	ttccggctct	ttactggtca	300
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ggagtgcgcg	tcgcgctgtc	aacatcggtg	tttggcggat	tgctggttct	gacattcgga	420
ctctggtacg	cgaaggaaaa	aaccttatct	attcacagca	tcaacagcct	gaagcgggaa	480
aogtattact	ggatcgccat	tttgttcacc	ttctcgctgg	gaactgccgc	aggagactgg	540
gcagcggaaa	gtctggggct	tggttatctg	aatgcagcca	ttgtgtttgg	tcgctgatt	600
gcgctgaccg	cggtcagtcg	ctatctgttc	aaagcgaaca	gcgtactgtg	tttctggatt	660
gcgtatatct	taaccgggcc	tctgggagcc	tcttggtgtg	atttgttatc	tcaacccttt	720
accagcggtg	gtctggggct	tggcacaaca	ggaaccagca	ttttgttcct	gctgaccatc	780
accagtctta	tcggttacct	cacctataaa	atgaaactcg	aagaaatcaa	cagataa	837

<210> 5150

<211> 219

<212> DNA

<213> Enterobacter cloacae

<400> 5150

aaaagaaacc	atcactttgc	aggttgtaat	aaacgggggg	cgagtgtttt	cgtatttgct	60
ttcagtaaaa	accagactcc	ctgtatacaa	aatcattcat	atcatttttt	aaaaaacgat	120
tttactatct	ttatatcgaa	agcaggtcac	tccctttcat	tctatggcca	gcacacacct	180
gacgagcccg	cttaccgat	tgtaaatata	tggcactga			219

<210> 5151

<211> 324

<212> DNA

<213> Enterobacter cloacae

<400> 5151

ccgccaggga	ccgaogttga	tccccggcgc	caggtttgca	tactggctgt	cgctgcgggt	60
gcctgccccg	cttcttgccc	ggctgtttgc	cccgtccagg	ctgtagttag	gcattggcgc	120
ggtaatgcct	tcattcccaca	tatccggcgc	aacgtaacct	ctcgctggca	ggtctatggc	180
cgctgtgggg	atgctgatcg	ccaggcgctg	ggcgccaaac	tggaaatccg	cgctggcctg	240
tggaaatgcc	ctgagatcgg	cgcattctcc	ttccccggcg	tcgagctgcg	ggaaaagcgc	300
cgttttcaag	ccccacgctt	ttaa				324

<210> 5152

<211> 486

<212> DNA

<213> Enterobacter cloacae

<400> 5152

agccagcata	tgcaatttac	aggcatgact	gacatgaaaa	aaaaaattct	ggcgatcctg	60
cttctgcccc	ctctcgcatc	cgctgcacag	aagttcccc	ctgaggtatc	cgctgccctt	120
cagtttaata	agtggtagat	ctcgcaaat	attatcgga	aagagcccct	gaaaaactat	180
gaagcgctga	ggccatatgt	aaccgcgcaa	actatcagca	aactcaaagc	catggataag	240
ctggatccag	atgaatatga	cgtgcctgac	gtcgatatgt	tcattcaaggc	tcagggatat	300
gaagatgact	gggacatcgt	cagtgcgcgc	gcgctggatt	acgatgcgcg	ctgtatgcag	360
gtttatatct	cattcggcaa	aaagcgggat	cacaccgtga	ttgactgcat	ggtcaaggaa	420
gatggcgtgt	ggaaagttga	atccgtggcc	agtatgaata	tttcagacaa	cctgatgatg	480
gaataa						486

<210> 5153

<211> 246

<212> DNA

<213> Enterobacter cloacae

<400> 5153

aaagcattat	ttatcaatgc	attgaacaaa	tctaaccatc	ccatccgcat	cccgtcacag	60
gggtctatgct	taatgaaagt	agccaaaaag	ggcgggtttag	cccaaagtcc	ctgctcgcag	120
ggggttgaag	tgataatcgt	tatcactaac	atgggtgttat	gccctgggtg	cttatcagat	180
gaggtggacc	tatggaactg	cattcagaaa	ccttcaatcc	ggccgatttt	gcctggcgtg	240
gcttaa						246

<210> 5154

<211> 480

<212> DNA

<213> Enterobacter cloacae

<400> 5154

actatgttaa	atattctgat	tcaggaaacg	gatctgtttt	ttcaggctgg	gctacagagc	60
tttttogaag	atTTTTTTaa	gcataacttt	catcgctcca	tcacttttca	cctggcgcgtg	120
accaatgaaa	acgtcagcca	ggccgatatt	attgttcttt	cattatgtca	gggggaaacg	180
ctgacctgtt	ttccggaatt	actggcccg	caaaaaggaa	ttgtgatagg	tctcgtcgac	240
gatgagctgc	gcttttcggc	gctgcctacc	tgctttcagg	acattatttt	tcttcctcgc	300
cgggcatcgc	ttgatcgtat	tagcggcggt	ctgtttattg	cgtgggtcac	gacgcaatta	360
ccgggttaca	cctggaataa	aaagacctgt	ttcgactgcc	agcataaagg	gttatcccg	420
caacaaattc	gtattctggt	caatttttac	cgagggctgt	cggtagtgc	gaccgcttag	480

<210> 5155

<211> 231

<212> DNA

<213> Enterobacter cloacae

<400> 5155

aaaagcatcg	ccgggctggc	tacgggtggc	ttcacggcga	cagtggaaact	gctgcgtacc	60
ggaaagggtt	attccgacca	gatagctatc	atgccagtgg	ggatcaaagg	catgtccttc	120
gaaatgcgcc	ttaatgtct	caataacctgt	ttctgcatgc	tgacgcagct	caagccagtc	180
gtttgccata	ctgccctcct	cttaccgtca	gcattgtcac	atcttgcctg	a	231

<210> 5156

<211> 438

<212> DNA

<213> Enterobacter cloacae

<400> 5156

tcattcaaca	taaacgaggc	acacatgaga	aattttgata	tgcacggaaa	aggtcacggg	60
cgtgggtttg	gcgcacatcg	tatgggtaag	ggcatcgtga	ttggcgcagt	cctgttcgtg	120
gtgcttgccc	tgtgtgtcat	gtccctgtgg	aacgcgttgc	tcccggccat	cctgggggtt	180
aaagccattg	gctttctggca	ggcgtctggg	atcctgctgc	tgagccgcat	tcttttcggt	240
gggctgggtt	tcggtcccg	tatgttcggt	gcgcaccgcc	gtatgcacga	acaatggatg	300
aatatgagcc	ccgaacaacg	tgaggccttc	attcagcagc	gtcgggcggg	atttggctcg	360
catggtcatt	gccgatggca	cgatggccgg	gatgaaaaac	gagatgataa	cgtgacgaaa	420
gcgcgggaag	ccgagtga					438

<210> 5157

<211> 303

<212> DNA

<213> Enterobacter cloacae

<400> 5157

gactaccgga	cgccatgac	agcacatgtt	tccaacgata	ctttgcatgg	cgtaacgctc	60
gaaatgcagg	ttaacgcgct	ggttgccgca	tatggctgga	atgaactggg	caaccgaatc	120
aaaatcaact	gttttcgcaa	ggacccgagt	gttaaactga	gtctgaagtt	cctgcgccgc	180
accccatggg	cgcgggcgga	agttgaagcc	ctctacctcg	actcccttca	cgatgacggt	240
aacggggagc	aggacgaacc	ggcgtttaat	ccctggacgg	atagccggac	accaggagc	300

taa

303

<210> 5158

<211> 231

<212> DNA

<213> Enterobacter cloacae

<400> 5158

ttcaatcagg	gattgataac	ggtcaggatt	gatctccgca	gggacatccg	cgggataacg	60
gttaagccaa	acctttttca	atgcatcacc	tctgaaatga	gtgttcgtcg	tcatacacagc	120
cccagataata	aacagtttgt	taacattata	ttaaactcagc	gtaccagttt	attaattggt	180
cagattgcag	gttgcgaagc	gcgtcactct	tttttttcgt	tttatccgta	a	231

<210> 5159

<211> 201

<212> DNA

<213> Enterobacter cloacae

<400> 5159

gctattcact	tcttctctgag	cttgtctgag	ttcagcatcc	cggattacct	tatgggtcggg	60
ttcaaataca	aaactggaca	gaaaatcctt	aaccaggaag	cgatgctctc	gcattttctt	120
gccacgttcc	ctacggttgc	cgctgctgtc	ttcagtgcac	atagctacag	tctgaccgta	180
aacgcgggga	tggggcgcga	g				201

<210> 5160

<211> 615

<212> DNA

<213> Enterobacter cloacae

<400> 5160

aggatgatta	ggcagggctt	tatactcaca	accgcaatgc	ttttgagtgg	atgcggatat	60
catttcgcaa	accaggtaga	tgcgtaacat	ctaattgcctc	gtcctgttac	aaataaaaagg	120
tttcagatag	tccctccgga	cgaaagtatt	cagtccagaa	tgtttttcagg	ccgttttgct	180
gatggattag	caaaaaaagg	agtcattatt	tccactcacc	agccagatta	tgtgctcagg	240
ttccgaatca	gcagctcaca	ggagaacatg	cagtatagcg	agcagcttct	tactgggggtg	300
acaggctacg	ttgtagataa	aaagacaacg	agaactgaca	agcatggcga	attgcatact	360
gactatgact	acaagccagt	cgatggggta	ataggcactg	agacgatgtc	gcagatgcac	420
tatatgcgac	agctggatgt	cgaggtatac	ccgtcagcga	aaggagcaaa	gcaggttctg	480
aaagtgcgta	tgcaaagcaa	tgcaacctgtg	ccgtcagaca	gcattgctta	ttcagcaatg	540
atcgacgcct	ttactgataa	atgtgatgcg	ccgtgcggtt	ccggaaatta	tgttgcaagt	600
atccccctgga	actga					615

<210> 5161

<211> 195

<212> DNA

<213> Enterobacter cloacae

<400> 5161

actacatgcg	ccgagacaga	gotgaatatt	tacctctccg	tggaacaatt	caacaatact	60
gtacgcccta	acttccctaa	atcactttca	gaccacccag	atgccctggc	tacgtttgaa	120
cctaacgatt	tgatgaaact	ttgcaacagg	caaggtcccc	tctgggtggc	aggttcacca	180
caagatccct	cttga					195

<210> 5162

<211> 570

<212> DNA

<213> Enterobacter cloacae

<400> 5162

aacactatca	ataagttgga	gtcattaccc	agcgaggtaa	atcactatta	tgagcattgc	60
actgtccccg	tgattgactg	gtttttttaa	caagcaaccg	aggcgctgca	tcattggtcta	120

tggttaccgg	cctgtacgag	ctttctgaat	gggatcgaaa	catcactcag	ggttacgctg	180
aagttgaaat	caactgttaa	cgttcagcag	tcagttcctg	tactgggtgga	cttagatggt	240
acgtcagtaa	tgagtaacgc	tttaattgca	aaggctaagc	aggaagggat	gccgatagaa	300
ttactgtcat	ttccagocga	gaagaatatg	ttggcaaaga	tagacgctgg	taaaaaacct	360
gaagcagata	tcgtcaggct	tagaaatagt	ctatgccatg	gcaacattct	ggagttcatt	420
atgagtgtta	aagtcggttc	tccagatccc	atacgaattt	ttactcctgg	taactgctgt	480
ggtttagcgc	ttttactttc	ggccttatcg	aagaaatgga	cggtaggctt	gcatacaatac	540
tggatcgaca	acaatctgac	gtcctgctga				570

<210> 5163

<211> 357

<212> DNA

<213> Enterobacter cloacae

<400> 5163

actatgaaat	taaaaaatat	tctgctgtgt	gcgatgatgt	cagtcgcttt	tggtcctctt	60
gctaatacta	cacataaagt	tgaaaacgaa	cctatcccaa	acattattct	tgatggtaag	120
gttgatgata	tttgtaaaga	tgcaagcatc	cgaactgaac	ttaatcatga	taaagcaaag	180
gaactggtaa	ccaccaacct	gaagcaggca	ttaccattaa	atacggtacc	ggataagttg	240
gatgaagttg	cagaagcctt	tgtaaaccgc	gacaaaggcg	cttcagaaac	agcagaccat	300
tgcttgttta	atgtacgtaa	taaatactgg	gaaatgtatc	cctctgaaga	taagtag	357

<210> 5164

<211> 402

<212> DNA

<213> Enterobacter cloacae

<400> 5164

gaggtgtgta	tgaaatctac	tttactgagt	acgttaatgc	tggttgctgt	aggtgtacag	60
cccgttttgc	ctgcacaatg	tcagtacgga	gcctgtggaa	cggaaaacga	tcccgggaatc	120
ggattttctga	tgtcacoggt	acaaatggat	aaaggatgaac	atctaaagga	actctctggt	180
gttgcgacca	caggtgacac	catctctaaa	aagatggaaa	gctacctggg	aaataaaaaag	240
ctcaaggtaa	acaccgacag	taccgcgaag	gggcggggta	ataccaccat	caggcctaca	300
gatgagctcg	ccccaacgag	gcaactaaaa	gttatccggc	ccgaactggt	aaaaaatccc	360
gattcgcagc	tcgtggtagc	tttcaatgag	cgcttggcct	ga		402

<210> 5165

<211> 444

<212> DNA

<213> Enterobacter cloacae

<400> 5165

gagcgtccag	aaggaaaaaa	gatgtcgata	ctcagtagct	tcgtcatcag	agcaacgggg	60
atacctgaca	aaaagtatct	cgggatccc	gtaataaaac	gttggtataa	acgtctgagt	120
cgtagggtgc	ctgctctaat	gacgggggtg	cttctgtgca	ttctgggttc	agggatatgtc	180
agtatggcac	tggaacagcc	tgatagcact	gtattactca	gtctgctgct	gttgatatgtt	240
atgtcaggca	ttttactgat	gcagttccag	tatatgtatt	cagagcgaag	cataggctac	300
aagttctacc	tgggaagtgc	tatgaatgca	gctgccagta	ctcaacataa	agaacagtta	360
cagtatctgt	tcattaataa	gccccattcc	atcacgatgg	gcgatcttta	ccgactttat	420
gattttaatg	ggggaggggc	atag				444

<210> 5166

<211> 1122

<212> DNA

<213> Enterobacter cloacae

<400> 5166

aaacgaccat	gctatacgag	ctotaacctt	ttttttgtat	gccatcataa	ccgcatacaga	60
aaaggagaac	ggtctatgac	tcgtattgca	ttagcgcctt	caaagatggg	tttgcttatg	120
tcttttggtaa	ttactgggtg	ccacgccagc	cctgagcaac	ccctaataaa	agatacgccc	180
tttgatatctg	gccaggctta	taagaagggt	ttcttctggt	atgacgatcc	tgctaaaaaa	240

agcgaagctg	aagaagaaga	ggttttgcc	ccaaccggtg	ctgctagctc	gccttcaaaa	300
gaggaaatgg	tagattttaa	ttcaaaatgg	ctaaaagaga	atatgcctcg	actgttaacg	360
caggcaatgg	ataaccctac	cgcagaaaat	ctatcacggt	attacacggc	gcaaaggtta	420
atgctggata	tcagtaacgc	tttttctgac	aaatcaaaa	attattttct	taaaaacccg	480
atgatgtctg	aaaaacgcag	gcaaccagtg	gaaaagggtg	cactggatgc	tcaccgcact	540
gttggtgaaa	aaaatcagca	aacggtaatg	aaagatatct	ttactaagtc	aggtttatgt	600
ttctttttcc	agagtacttg	ccagttttgc	cacgaagaaa	gccaaatact	tcaatttatg	660
cagaactatt	attcggtaga	tattcttcca	atcagtatgg	atggaaggcc	attgcataat	720
ggcctttttc	aggattttta	catccccaac	gcacaaatta	ttgatcaatt	taaaattcga	780
gaggtaacct	caatttttct	ggtttcaaag	gatgggacat	cagctcagcg	cattagttaa	840
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ctgatogatg	acgcttcggt	ccagtcaact	ctagatatta	aaaggcaata	taccatcggc	960
gatgatggcg	ttattaccgt	taataaatcc	gaaatggaat	cagaccatt	cctacttcaa	1020
aaaataatgg	acaaaaaact	cgaaggctat	gacatgccta	cggccgatcc	ggtcaattat	1080
ctcaatgctg	gcggcagttt	tggaggcact	tatgcgcagt	aa		1122

<210> 5167

<211> 192

<212> DNA

<213> Enterobacter cloacae

<400> 5167

acaaacgcag	cgaaaatcag	gcaaacgagc	aggcaaacca	ggtgtgcaga	tttcatcgaa	60
acctcctttg	aaagtcacat	gcttcccttg	aaatatatcg	ttacattcat	caacgcgatt	120
caagccaaaa	gtatgaattt	acgcattctg	cgtgcggtat	ccgatcgcca	gtgcaatgcc	180
atagcttact	aa					192

<210> 5168

<211> 315

<212> DNA

<213> Enterobacter cloacae

<400> 5168

ctttcaaagg	aggtttcgat	gaaatctgca	cacctggttt	gcctgctcgt	ttgcctgatt	60
ttcgctgcgt	ttgttcacgc	gcaggagaag	agcgctccgg	agaaagaggc	ccagataaaa	120
cagcaggtcc	tgaaagatgt	aaagaaaacc	tgtaccccg	agaaaaagca	gagcgataag	180
gcctggcagg	cgatgatatt	gtcgtctgag	gccaatcagc	tgctgatcaa	aaacgccatc	240
accgccgtga	agcgtgacaa	cctggacgcc	tactgggatg	cagtcagtca	ggtggattgt	300
atggaagatt	actga					315

<210> 5169

<211> 468

<212> DNA

<213> Enterobacter cloacae

<400> 5169

ttttctcttt	ctaccgtatt	cgcgtaggcg	agctggtagc	ggaatacagt	tccgaaaccg	60
gagggcacgc	ggatgtatga	cgttcacgtg	attttccgcg	acgggcccgg	cgagctggcg	120
cgctttggac	agctgttggg	gcgcaacggc	gtggggcttg	agggtagcgg	cgtattcggt	180
accgatgcc	atttcctggt	ggaggacggg	gaaaaagccc	gccgtgtgct	gctcgacgcc	240
gggtttaccg	tgcaggcgct	gcgaaagccg	gtgatcagaa	agcttaagca	ggagcgtcct	300
ggcgagctgg	gcgagatagc	ggcggcgctg	gcggcacgcg	gcgtgtctat	cctgactcag	360
tacagtgaac	atgcgaatca	ccttatctctg	ctgacggatg	atgataagct	ggccgctgag	420
atcaccacac	cctggggcag	gaatgttaaa	gacgagctta	ccctctga		468

<210> 5170

<211> 1089

<212> DNA

<213> Enterobacter cloacae

<400> 5170

gcctgcttca	ctatgtctat	tagcaccctg	gcacgggtat	ttaccccgca	cggcaacatc	60
gtctatacgg	caaacgactt	tgcacagacc	ctgcgtatcg	tctttgccgg	gatgattgcg	120
ctcagtatct	cgagtttcta	caacaccagc	tacggcgtgt	tttttggtgt	ctacccgatc	180
atgcttctct	cgctgggtacc	ggtgtttaat	cgccacgtgg	cgaagcagtt	tatcttcagc	240
gcctcgctga	actgcgtcga	aatgggtgtg	attatcggtc	atctgtcgca	gtggccggtc	300
atcatgacgc	tgggtgggtgt	tgcctgttac	gtgatgcgtt	ttcgctttat	gagtaagggg	360
ccgctgttcc	tgttcggctc	gatgggcgtg	gtttgccaga	gcgtgatgct	caactttatg	420
agctacccca	ccaccaactg	gcacacgctt	ttattctcta	acatcgaagc	gagcgtgatg	480
gcggtgtgcc	tgagcgcgct	gatgaactac	ctgctgccgg	acgtggagcc	gcgtaagccg	540
ccgccgctga	ttgagaaaaga	cgatgcccg	gtgcgccacg	agtcgctgct	atccggcacc	600
gtggcgacgc	tgattttcgt	cgtgttccag	attagcgact	taagtgattc	gctttcggcg	660
ctgatggcgg	ggattttgat	cctgttcccg	atgcactatc	gcggctcggg	tatcagctcc	720
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tttgccgcgc	gtctgcacgt	aatggagaag	gtcggcgccg	gggtaggctt	cgccagtatc	900
accaccatcg	gcattatggt	cgggcagaac	atgcaccggg	acagcgacct	ggtgttcagc	960
gatctatacc	gcataacctc	cgttaccttc	gcgctggtgg	tcacgctgac	gatggtcttt	1020
ctggtgcacc	tgatcctgaa	tcgcttcgag	gcgacgcgct	acgttatcgc	gccgccaaaa	1080
gcggattaa						1089

<210> 5171

<211> 249

<212> DNA

<213> Enterobacter cloacae

<400> 5171

ttcatcaagg	gtccacaaca	cggaaggcgc	ggggctggga	ttatcaatta	caaggtcgat	60
cattcatgct	catggcggcg	agctgtcagc	agaacagcag	gggcgggaaa	ttgtgttcag	120
tgtgcgcctg	ttaatggatt	aatcccgctc	ttcaggagaa	acctggaagg	tgacaaaatt	180
gtcatcattc	agtcacgcga	taaacagagg	cgggttttta	taatcataca	taaatacagga	240
gcagagtga						249

<210> 5172

<211> 269

<212> DNA

<213> Enterobacter cloacae

<400> 5172

cggtcgggt	ttattttacc	acagcatcga	ctaattcaag	aggttacata	tgatagtttc	60
agaagcaatt	ttttattctt	ctattatttc	ctgggttctt	tattgccggg	ttatcccgcc	120
cccattacta	aaaaggtagg	gatgtctgtt	gttccactca	cgtttacctt	cggatgttac	180
atztatgcaa	ttcatttgga	tgattccgca	cagcaaacca	atttactagt	cgtcaccaca	240
ggggacaaaa	gcacccgcgc	taagcgaat				269

<210> 5173

<211> 186

<212> DNA

<213> Enterobacter cloacae

<400> 5173

attgaagcgg	tgctcgttct	catcgcaata	ccagttcgcc	cggtaagtac	ggctggaata	60
agtattccat	tcgctcgtga	aaagacattt	accaccgatg	gcatacaatc	cgcttcgcag	120
tccacctatc	cctgcaaaaa	gatcgataaa	gctaaagtgc	ctgtcctcat	aatcagcagg	180
tcgtga						186

<210> 5174

<211> 1011

<212> DNA

<213> Enterobacter cloacae

<400> 5174

atccgcagca	caaaaggagg	caaaagggtt	atgggcagac	accaaccctg	tcccaccatg	60
gcagtggaga	caggcaaacg	aaaagcccag	aaaggtgaaa	gggaagaaat	aaccatgatg	120
aaagagcctc	atccgttact	tcagttggta	ctaaacgatt	ccggtcgtct	aaccatgcct	180
gtttattata	gagatcaaca	gtattgcccg	acttgcccta	caaagggtgt	gaagagttag	240
gatggaaagt	tggcgacact	cggggaaata	aatcaaaata	catgtagacc	ttctatttca	300
gtagtgtgta	caaaagcaat	tattgaaatg	ttatgtgacg	gggaaaaaat	atttgtaaat	360
ccaatacgat	accgaggccg	ggtgctggca	ccctcagtaa	ttttttctcc	cgacactcac	420
actttcaaac	cgttttataa	tacagactat	cagcctgtgg	gagcaaactg	gaaaagtgaa	480
aagggatata	aactcgggtc	gtttttatct	aaagatcgag	ccaactctat	caataaagag	540
gaatttgatt	tcattgccc	tatagaccct	aaggcaatgc	agaaagaatt	tatttcggcc	600
tggctctgag	ttgatgaaaa	aaatccattg	gaaacgctga	agcagatctt	acgatctaaa	660
aacaactott	ctttatgggt	aaaatggcct	ggcaaaattg	agcatgcgca	aaaaggaaat	720
tgcaacgaaa	attactgggt	cgattatcaa	tctgataatc	aggaagtgaa	ctgtacgggtc	780
tctgtttag	gtatcgaaag	taacagttcc	ggtgagacaa	tttatagatt	gcaaactttg	840
ctaaagcgta	agctcaatga	atatcaactg	gttcgggtctt	tagggactat	tatgcttctt	900
gataataccg	ggaatatgat	tccatcaaac	catecttatt	ttgaagtcac	ctcaaaagca	960
tgtataaatg	gagtgcgtag	ctttgttcgt	caaaaccctg	gggtagtctg	a	1011

<210> 5175

<211> 360

<212> DNA

<213> Enterobacter cloacae

<400> 5175

ctggttagcc	cagctcgata	cggcctcctg	tttatgtttg	gccgactgca	ataccgccct	60
ggcaccatgg	ataagcaagg	tcctcaaaata	ggtatcacct	cgcttgctta	tcccagcgag	120
gactttgtta	ccccacttgg	agtgtctgacg	tggaaaccaat	ccgagccagg	cagccagttg	180
tcggccattc	tcgaaattgt	tggctttacc	aatggctcgca	atcagcgcgc	tggcggtaac	240
agggccaata	ccagggatct	tgcgcatacg	ctggcagaga	gcattttgcc	gatagcactg	300
ctcaatctgc	ttgtcgagtg	tagcgatgac	atcgaaacagg	tacgccatgt	ggtgctgtag	360

<210> 5176

<211> 1329

<212> DNA

<213> Enterobacter cloacae

<400> 5176

gagactacta	tgagccaaaa	attcgcagtg	atgattgctt	acgacgacga	tccaaacgtc	60
aaaaggtaact	caoctgactt	tcaaacgcag	gatgagtttg	ctaaagggtg	gcagtcggct	120
cttaaaaagg	cacaccacac	ctcaggtcaa	aaatcagtca	tcacctgcgg	atgtcgtgga	180
aaaggagaaa	agcgacttta	tgttcgtgct	ttaccgaacg	gtgatgcctt	tattctcgtc	240
aaagccgcta	acacgggcat	tgagcatgat	ccttcctgtg	tattcttctc	ccttgatgcc	300
cggcataccg	gcctgaaagg	atatgcgagt	ggtgtggtcc	ggattacaac	cgaaggatgat	360
atggctgtaa	ggctcggtat	cggatatgaca	gagaaagatc	ctcctgaaaa	atcagaagtg	420
cctccccctg	cccatgttca	ggcaccagaa	ggaggtcagg	cctcaatgac	cctcctgggc	480
ttgcttagtc	ttttgtggac	agagtctggt	ctgaatgtct	ggtacccgaa	aatggcaggg	540
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agtattagt	aggtgttccc	tgactcttac	ctgctcgaca	caaaaagcga	taagccgttc	1140
ccgatggaag	tatttggtat	ggccactcct	gcttatctgg	cccgaagcga	actcaaaaaa	1200
gattattaca	accgtgaata	tgggccttat	ggatgggtggc	actgggatgc	gaccacagca	1260
tctgaaacta	tgggtgctgcc	tcattttcca	gaatcacgta	aacctctttc	aactggcaca	1320
cctgcttaa						1329

<210> 5177

<211> 216

<212> DNA

<213> Enterobacter cloacae

<400> 5177

aatggagaaa	aaatgtcata	catgctttca	ctaagcgaac	agacaaaact	gaacgctttc	60
ctgtcagggg	tccttgatga	ttacaagact	ggggttatca	ctcagataca	agctgttggt	120
aaaatcggta	acgtgttttc	tgcactggaa	agtggagact	caaaaaaggt	agtgcatttg	180
ttgactgaag	gacgaaaact	cctgcgggac	ggctga			216

<210> 5178

<211> 249

<212> DNA

<213> Enterobacter cloacae

<400> 5178

gcatccaacg	cagttatggt	gtcacggtca	acaatcttaa	ccacctttgc	ctcaaaagtt	60
ggtgagttcc	cccaggacgc	cactgggaat	acaacaatca	tgatgggcaa	aagtaacttt	120
gtaaaaaaaa	acatcatttc	acctgaattt	gttgagtaca	gacatgtatc	cacaagccta	180
tttacaggca	gtattttaac	aagtcattat	ttcatgggcg	ggcttaaaac	caatcttttt	240
gcaacttaa						249

<210> 5179

<211> 183

<212> DNA

<213> Enterobacter cloacae

<400> 5179

tgtcagaggt	caaccatgac	gtattttcgaa	tcagctgaag	gtgagacggt	atctaaagaa	60
cgagcattac	aagaactgtc	caggcattgc	gttcccgaaa	cagatttcga	agaattcitt	120
agcgacatgg	gcgtaaagga	acagtatgac	gctcaggaag	tggtgctttg	gttgggatat	180
taa						183

<210> 5180

<211> 369

<212> DNA

<213> Enterobacter cloacae

<400> 5180

tttaaagcaa	ccatgaacat	gaaaaagccc	aaagctgcat	tacagaatgc	catgaaagaa	60
gatgtgccag	ctgtgacaca	gattcagatg	cgatctacgg	tttcagaaa	ggttcgctat	120
gtaaaacagg	caaatcgaga	gggtctgaaa	ttatctgagt	ggatgtcgcg	gcatctcgac	180
gctgtctgtg	ataccgcaga	tgagattcat	aaaggcaaac	gctcaactcc	ggttgcgctt	240
gggaagattc	cccctgaggt	ataccagggt	atatacgatc	agtgcggcgg	gttcgtggag	300
tgtgatgcta	atgcccgagt	aatctgggaa	gcctgccgtg	atgccattct	taacggagac	360
aaagggttaa						369

<210> 5181

<211> 330

<212> DNA

<213> Enterobacter cloacae

<400> 5181

ggaaatcgaa	tgtgtgattt	ttgcagggct	gacgaaaatt	actttcatat	ggcagaatgc	60
gtgtatgacc	aactggttta	agagtatccc	gtaatgtggc	tgcgggattc	aaccgggatc	120
ggggcctgct	acctctgtcg	agaactgctg	tcgccggagg	ggatggctct	ggcgatgcag	180
agcgctttcc	ctgcgaaggg	atggcggtcg	cgtatttggt	acaatgaaac	cattgacgaa	240
gagatagaac	cgcagcgtgg	agactgtatt	gagctgtcct	ccagggcgga	cgctctgctg	300
tccttcatgt	cgttccagga	aaagggttag				330

<210> 5182

<211> 228

<212> DNA

<213> *Enterobacter cloacae*

<400> 5182

gccaggatag	cagatacctc	ccttgttccg	tctttcatcc	gcaactcgca	aagcgagttt	60
cgtgtgagcc	aggtgaatat	caacagcggt	aaacaaacta	ttaatatgca	caaaacaatg	120
ggttgggttcg	gcattttcat	ggccttcttc	tcctgtcaac	gcaaagcaga	agtgtcacca	180
tcggtgcgaa	acagagatgt	catgctttgg	ttcagagaat	gcgtttga		228

<210> 5183

<211> 225

<212> DNA

<213> *Enterobacter cloacae*

<400> 5183

ttcacctctg	atatggccac	ttgcgaaatg	ggaatggtaa	ctgttattac	tatgtgttta	60
cttgcgtgttc	ttgttacgca	gccccctaaa	cacattactt	tcaaatatga	tttcctgctg	120
ggtttaaata	tgtgtctttc	tatagtgcgg	caacctatct	ttacaccaac	tcatgaatta	180
aataagaatc	ataaattaaa	tgagagggtt	aattctcttg	cttaa		225

<210> 5184

<211> 201

<212> DNA

<213> *Enterobacter cloacae*

<400> 5184

atctgcgccc	ttgtaagctt	ctgggcggaa	ctgcttaaac	ctgacatacc	ttcccggcct	60
tatataaaac	aatccgcccag	cagctcgact	ggcggacaat	gtttgactgg	aaacagcaag	120
gacatactat	ttgctgacaa	gtttgatatt	ggtttcactc	attcgaagtc	gaaactcctg	180
aaaaccctgc	tctaccgcta	a				201

<210> 5185

<211> 624

<212> DNA

<213> *Enterobacter cloacae*

<400> 5185

atctgtttta	taaggctgag	tatgatgaat	aaagaacaac	taatcgacaa	actggaacgc	60
gtggtatgtg	gtcagtactc	ctaagaaatg	caggagcttg	cgtattcggc	cctctgctgc	120
attaaaggca	ccccggacga	ctgcgctaag	ttccctgtta	cgcgtccgct	gcctgacacc	180
ttagtggaag	tatgggacga	gatcgggcaa	taccttggca	caggcaaagc	cattgaaact	240
cgcagtttgc	gcgtttcgtc	tctgcttcat	ggacactgct	acgattcaaa	tcattgtgctg	300
tactggcgca	atgctggcgc	aactccagca	gcttgcgata	cgccactggc	tggtgggtct	360
cgcaaaactgt	tcacctgctc	agcctgtgga	gtggacggtc	tggtatgaacc	acctgaaacc	420
agttgccaact	gctgcacaga	ggggggcccac	tggtattgaga	gcaggctctt	cacctccggg	480
caggcagacc	ctgaagaatt	tagaccggtg	gcggtcgtga	aagagtgtgc	aggctcaacg	540
ccggatgata	ggctcatctg	gagcgtgatt	gaacagctca	acggcgaact	ggcggaaggc	600
gataaaactat	ttaagcaacg	ctga				624

<210> 5186

<211> 297

<212> DNA

<213> *Enterobacter cloacae*

<400> 5186

tctgggaagc	ctgcgctgat	gccattctta	acggagacaa	agggtaaacc	gcaggatatcg	60
cctgtcattt	ttacccttgt	gaggaaaatc	ctgatgaacc	atgagagccg	aactgtatac	120
ctgaacacgg	ccattgaggc	cctgttgaaa	gctgaggcgg	ctctgaacga	gctggcatta	180
gcctatgtac	tcaaacacag	tgaaaaggca	agcgcattgc	atccccgaac	cggtacgctt	240

tccacagctt cccaggtaag aaaacttcgc cgtgttctag aaaaaaaciaa gttatga 297

<210> 5187

<211> 924

<212> DNA

<213> Enterobacter cloacae

<400> 5187

ctgagtcagc	cgagaagaat	ttccccactt	attcgcacct	tccttaagag	tagtgacgat	60
ttttcccgtg	aactgtcatt	tctttttcac	cggctctataa	agattagaaa	ttcagggttc	120
gcgatatttg	gtgcgggect	gctgataatg	atTTTTtggtc	tttgcttggtg	gttgctgtca	180
ttacacctct	caccttcagt	tctggacctt	gatattgatg	tgcccttggtc	attcttcaat	240
tcacttgaag	gtgaagataa	gttagtggtt	tcggattttg	gcgatgcatt	tggaggcttc	300
ctaactacat	attctaagtt	gctattaggg	attatggggc	tattagtagt	ttcttcaact	360
gcctttaaaa	ttttaagggt	ggaggaaaata	ggtgagatat	tcccgatgct	tctaattgct	420
ggcgcttttc	ttatcggtct	gtcagttttt	acatctgctt	taggttcgga	agagactgat	480
gccacttcag	cttcgactgt	aaagggttat	aagaaatatg	taaaacatga	aaaatacgat	540
aaacttgctg	catattttaa	tgatagtaat	tggccctcag	gcgaagaggt	atctgtaaac	600
tattttaagg	cgcaactaca	tataaaaactc	ggcaagccag	atgtgaagtt	aacacagaat	660
gttgttaggg	cgtatatgtc	tggtgtatta	cagtcaaata	ttcccggtga	agttcgttat	720
gcattggaaa	agacagcttt	agataaaatcc	gtctcaccac	ttgcgattcg	ttatgagcaa	780
aaacgtatgt	ctaaatcaca	taccttttca	aaagcgctcg	ttaattgtct	taaagtaggt	840
agtcccgctg	cattcggttg	cgtttttgtt	gctcttcttg	gtataaaaaat	caggcggcga	900
gtcagattct	tagaatcaaa	ttga				924

<210> 5188

<211> 237

<212> DNA

<213> Enterobacter cloacae

<400> 5188

ggatacatga	tgtgtaactt	taotcctgtt	caaattattg	ctgattatat	actgagggtt	60
cttaaaaaata	atactgatgc	caagccttat	gaggcaatgc	agcgtcttga	aaagaaaatt	120
ggtcagtttg	tcgctgatgg	ggttgatgaa	catcaattac	gctcttcatt	aagcaaagtc	180
tgtcgatctc	gttccagggc	ggctcttaaa	gaggagtgtg	aacaactcat	tccataa	237

<210> 5189

<211> 306

<212> DNA

<213> Enterobacter cloacae

<400> 5189

ggccgggaag	gtatgtcagg	tttaagcagt	tcggcccaga	agcttacaag	ggcgagatt	60
tacgtgttaa	gacggatggc	atccggcacg	atctatgata	tctctggcaa	tttcagacgg	120
gccagagaac	ggcgtagctt	tatggggaat	cctgatgatg	tgacgtgcag	gagctctccg	180
gtcctgttcc	ggctgggect	cgtggagtta	tgccagccag	taaggcatct	ggagccaggt	240
ttatactatc	ggctcaagtt	gagctcctca	gggcatgaag	ctcttaaggc	gaacgcacac	300
ctctaa						306

<210> 5190

<211> 279

<212> DNA

<213> Enterobacter cloacae

<400> 5190

gaaacagaac	ccgacacatc	gctgctctct	gggaaagccg	gtcagcagat	ggagcgccag	60
gaactaaatc	cgctggtttt	aataatgatt	gaggagaaca	agatgaaaga	taacaagaca	120
cgtcctgtag	actcgtagtc	tcattgctgat	ttcatggagt	ccgtcttcag	caacctcagg	180
gctttctgtg	atgcggaatg	ccagcggcta	actgccggtt	atcccccaac	tgtcaaacca	240
gaacagcaaa	gcaactgacg	ccagctgtcg	gcggcataa			279

<210> 5191

<211> 195

<212> DNA

<213> Enterobacter cloacae

<400> 5191

atcattacct	gccagttcgt	tcaaatttcc	gcttccttaa	gcccggggcca	aaagcccggc	60
tcaatccaaa	aactgaacgt	accggtttac	ctctatatct	cctcaatccc	ctgcgactta	120
caagagaccc	gcaccgggtt	agccattcct	gtcctgccac	tctctcatca	ctggcccaga	180
caaccgga	agtaa					195

<210> 5192

<211> 369

<212> DNA

<213> Enterobacter cloacae

<400> 5192

tgggctacgc	attcagttctc	caoctctcta	actataaagg	ttcttttcat	gtccaatagc	60
ttcgataaag	cgcaaacgct	cccgggtacat	aattctgatg	ccgaaccctt	ttttccgaaa	120
aaccttggtc	cattttatcg	gcagggtatcc	ggaagggatc	tggaatgct	cacagaatca	180
gagaaggaaa	aacttgcgca	cctgatcaga	actgggcgta	aatatggagt	ttctgtcgct	240
atcgttcctg	atacagattc	tgctgagctt	catgaattac	tgtctaattg	cgattccatt	300
gaaaggcagt	tttccatcta	tgaacgcata	cagacgaaga	ttgcgttcac	gcgggtgtcag	360
gaagcataa						369

<210> 5193

<211> 354

<212> DNA

<213> Enterobacter cloacae

<400> 5193

gccactttgt	tatatattgt	tcatgttaac	agaggaggcg	atatgcaa	tgaaaagggtg	60
atgtcattac	ttgaagtgt	ttcaagctgg	cttgaagata	acatcaatat	ggattctgaa	120
attatctttg	ataatgacga	agataatacc	aactcagaaa	ttctgtatcc	tgctgtagaa	180
aaggctaata	ccgtttttgc	caaaatggca	tctttatctt	cagattctgt	tcatgcaatt	240
cgacagcgct	tgcagcttgc	cgtagaaggc	aaagctgaat	tgtccctcaa	ggatgtggga	300
gagctttctg	tggcaacaaa	gtatctgatg	ttgtccactg	aagagggaga	gtaa	354

<210> 5194

<211> 189

<212> DNA

<213> Enterobacter cloacae

<400> 5194

aaaggtgact	tgatgaaacc	atttggactt	gccggaaaac	cccggcccga	accttgccgc	60
tgctgtcgtg	atacccggtg	ggactgcctt	tacgtcagcg	caaaacagat	ctatgcccg	120
aggcagcgca	aggcagaacg	ccagcgctcag	cgcagcacca	ttgtgatggc	cgtttctgaa	180
tttcgctga						189

<210> 5195

<211> 192

<212> DNA

<213> Enterobacter cloacae

<400> 5195

aaaaaccgct	atgcaggaaa	aagagtaata	ccccctttta	gcaccacaaa	tttcaccgtc	60
catctgcctt	taaccttgcc	tggtattaac	ggaatccttt	ctgactgggc	ggatcccacg	120
cataacctga	actgttggct	aaccgtctta	cagccaaatt	ccctccttta	tctggcagga	180
gtgcgtccgt	ga					192

<210> 5196

<211> 522
 <212> DNA
 <213> Enterobacter cloacae

<400> 5196
 tgttgtccac tgaagagggga gagtaagcct gtgaccactc tcgtatttga aatggcagat 60
 atcaataaac tgatcgaaga aattcgcacc gcaaaaacgt ttccggtcac cccagatcag 120
 atctatgacc cggcatgcta tccggggggga gccctcctta acgctgaggg acagactgaa 180
 gaagaggcgc gtaaagctgg tagggttttc tttccctcat cctcaaaaat tgccagcaca 240
 catctgggtgc caaaagtgtc tctcgcgcac agtcatgggtg tatacctgat cactaatgct 300
 gagcttgagg gctctccgc atcccgcat actgtggctt acgcccagg gatgaatcca 360
 aaactggatg aggactggga ttacgcttgt gatgccgctt tgggtgggtc tgattgtagc 420
 tataccattc ccgttgagtg gctggagtta gcggtagagc agggttttca ggagtttcga 480
 cttcgaatga gtgaaaccaa tatcaaacct gtcagcaaat ag 522

<210> 5197
 <211> 231
 <212> DNA
 <213> Enterobacter cloacae

<400> 5197
 gaattctccc tgaatggaag gcaacogatg aaaatgtttt ttaccctta tgttcgtatc 60
 gttttctatt tttgcgcatt gatttttatt gtttacagtt tcagtgattt tttccagggc 120
 gtccctgaca gcaccttctt cagtgcggtc atcacgctac ttgttatcgg aaccattgtt 180
 gcccgcatc tggatcgcaa aaaatctctc aaatatactt cacagattta a 231

<210> 5198
 <211> 243
 <212> DNA
 <213> Enterobacter cloacae

<400> 5198
 tttaataagg accggttcat gcataaccac gaaattcaga ccattgctat atttagtgcc 60
 cagtataaaa acatcgaaga tgctgaaaat gcagggtgctt tatattcagt agatattgaa 120
 tatccgatga cactaaatga tttatcgagg ctttgcgact ctattgccga agcagtaggt 180
 gtgcctggcg gcgtcaaata ccagttcgtg tcccagccgg aagcgcatga aaccagcttc 240
 tga 243

<210> 5199
 <211> 237
 <212> DNA
 <213> Enterobacter cloacae

<400> 5199
 ccagtaacca aactgcctaa aagcagggtgc aaagccatga aacaaacaaa gtcttctatg 60
 tcacgtattg tgcagctgta cgacgggagc cgatacggaa actgcgagca ggctgataac 120
 gaaggagagc tttttacggt ggtgttgaat aagccttcgc agatcgatga catccgtaaa 180
 atcgtagaca caaccgcga agtacttggc aaagccttgc cagtactcct cttttaa 237

<210> 5200
 <211> 327
 <212> DNA
 <213> Enterobacter cloacae

<400> 5200
 tctggagagt caatcatgat cacatctcta atgaatttcc gcgatttaac cggagaggca 60
 gtcattcagg cgcggcaatg cgttattaat gctgagatcg aagcgggccg ggaaaaggta 120
 attcatgctc gttcggtatt caaagcgggt atacataatg ttgtaaacgg tagttctggc 180
 attaaggctg cggcagcaca ttttctggtg ataaaacgtt tacagactga cactcggtat 240
 ctggacgchg ttatcactga taacctttgc atgttttctc ctgagggtta tctgtatctg 300
 tttatgcaac aacgttattt cctataa 327

<210> 5201
 <211> 291
 <212> DNA
 <213> Enterobacter cloacae

<400> 5201
 ggatataata tgaaaatcag ccagctggaa tccgggatgc aggtttggtc tgtaacccgt 60
 accaaaatgg gaaataccac catttcaacg gtcattgtcc accccgttgt cattattgaa 120
 attcatgata accatgtgat tgctcgtctg aacggcaatg caccacgtcg gtttggagaa 180
 acggctatca ggggctggaa gaaggagaag ccactgcttg tccgtgagcc tttcggaaat 240
 gttcgtctg ccacccgggc tgaaaaaacc gctatgcagg aaaaagagta a 291

<210> 5202
 <211> 618
 <212> DNA
 <213> Enterobacter cloacae

<400> 5202
 caggagtggg gtatgactga attaaataaa agcccgtccg gtttttccgg agctgatgtc 60
 agtaaagaac aggtgccat aagggcactt gtagaaagag tagtgaccaa ctatcgacgc 120
 cggacagcac ctgatcgggt tcaaaaaggct tcggtagcgt ttaatggggg attaatcctg 180
 accctgatgc tggccttgac gctattgggc taccttgtgg cggaattgct cagggggtat 240
 gttgcggata gttcaccta tgtgcccggt ctaagttatt cgcaattttc gatgcttatg 300
 gtcgttgagc tgtgtctatg ctttcttgca tggtttttgg ttgtcacagg ggactatccc 360
 cggccgtgga tatttcaggt agtcccgatg gagcagtagt ggttctttga cgaagtggat 420
 gacgacgac ttgcccggt ttcctgtaac ccttacatca agcgtggct acttgatgaa 480
 atgtccggta ttcacgact gacctacacg aggtgcatg atcgactgga gcgcactctg 540
 aatattgcat cccatctcga atacagccgt attcaggcac ataagatttc cctaataaac 600
 ggaagcagtg cctcctga 618

<210> 5203
 <211> 351
 <212> DNA
 <213> Enterobacter cloacae

<400> 5203
 ttccgcaaac tacggggcat ttctttaatg goggagcttt acatcactat ttctgtcatt 60
 ttcaaatccg ccggatacag caataattgc accgaacagc ggtttgaact gcaatgcac 120
 cgtagggtat gcgacaataa taaggctctt cccgtactct taaaaatgga agagtttaaa 180
 acccatactg ctgggatgag cgaagcacgg tacattatgc cagcgtataa gggccgtcat 240
 aacttgtttt tttctagaac acggcgaagt tttcttacct gggaagctgt ggaaagcgta 300
 ccggttcggg gatggcatgc gcttgccctt tcacctggtt tgagtacata g 351

<210> 5204
 <211> 537
 <212> DNA
 <213> Enterobacter cloacae

<220>
 <221> unsure
 <222> (526)

<400> 5204
 aaaaaatgtc gaacctggta ttgttgtgtt gtagegcagt taaacaacca accaaaagag 60
 agaacaaaaa tgtccgcaat cgaaactgaa gtaaaaaaca acagcaacga aataagcctt 120
 cgtggttacc tggaaacgac tggtaacggg gcccgtaaag gtaacggcct tatcattgac 180
 ccttcggttg ttgtacaaca ggaaggcttt aacacccgca cggccgggtat gggcgagctc 240
 tactattcaa tgcctcacgt tgtggaacac ctgaacagcc tggccgatgc ctacatggaa 300
 gaccggttca gcgtgacgcc tatcgttgtt cagatggtta atggcgtaac tgtactgcgt 360
 cagggggcct gccgtatccg ttccatcgct attgcaaaac gccagctgga agcagaagg 420

cgtgaacgca	ttactogtat	tcgctgcgaa	caatttcgcg	gtagcgcttc	aaaagcagaa	480
ctcttcaccc	tgaccggcaa	ctccaacctg	gcgctgtctg	tcgtanctga	agcgctt	537

<210> 5205

<211> 204

<212> DNA

<213> Enterobacter cloacae

<400> 5205

gcgggggctg	ataaaatgga	agatgcgatt	aacgtcccga	ttacctatta	cgattctaac	60
ggctgtctaa	ttgttggtea	caatctgggt	ggaaaaatcc	accctcaatt	atttgataag	120
ctggttcgtc	gttcaaacga	tggttcaacc	cgttgccagc	aggcaaaaat	caccagttac	180
ttagaagggc	ttttaaatgg	ctaa				204

<210> 5206

<211> 276

<212> DNA

<213> Enterobacter cloacae

<400> 5206

agaggtaacc	gaataatgag	tattccaatg	aaagggctgt	caaagcgtag	ctgggtataat	60
agtctgactg	attcagtcga	atacaaatac	ttcaacggtc	aaacagaaaat	tagtgaatca	120
gcctataaag	tacttgcttc	aggtaataag	cctaaaccaa	ctgtgaagcc	agctaaagcg	180
gtcaccacgt	ataaggtgaa	gcctaagcca	acgattgaac	agcaaagaga	tgcagccttg	240
aaagaggcta	ttaaacagat	ggtaagcggg	ggctga			276

<210> 5207

<211> 298

<212> DNA

<213> Enterobacter cloacae

<400> 5207

gttggggggc	gtccccgtga	ggcagggagt	tgttgttggc	gggggttgac	cacaaccggt	60
aaccaccggt	ttaacaaaaa	acctgggtaa	ttcagttcga	aaaccggaat	ttgctgatcg	120
ttggggtcgg	ccaaccgggt	tttattcggt	ggcgagtggg	tcaaagaggg	cgcattgggtc	180
gtggacgtgg	gtattaaccg	cctggaaaaa	ggcaaagtgg	ttggcgacgt	ggtgtatgaa	240
gatgccgcag	cgcgcgcatc	ctatatattc	ccgggtcccg	gcggcggttg	cccgatga	298

<210> 5208

<211> 921

<212> DNA

<213> Enterobacter cloacae

<400> 5208

cctatagcaa	gtgttaaaact	ttttgcccgt	ttattgtcac	ctctatcact	acaggaagtc	60
agcaacatga	cacatatctt	ttatgagttc	tcctccctga	agcctgggtg	tcctgatgtg	120
gaaacattaa	tggaagtcat	caattcttct	gaactcacgc	gttttgtcat	gggtgcagag	180
gtggtcgatt	ttgttaagaa	ggcgctcatc	gttaacacca	caatcggtag	ctttaaaaac	240
tgctattttg	cttttgatga	tggggcttac	tttctcgagt	ttgacggcaa	gggtaaatcc	300
agacgcttta	ctgagggtgc	tgactgggtc	gtttcccttg	cgggaatttg	ccgctcgcaa	360
tggtgatta	accatgacct	ggcggatgtg	aaggcgacgg	cgtttattga	cgtgctgatg	420
tcctaccgcg	ttaaagagcg	ccggggcgac	tgcaatctgc	tgtttgggtc	ggatctgcat	480
aaggccaatg	tggttccggc	acctacagcc	cctgccggaa	aatggggcaa	taaaaaacga	540
aaaactacca	agcctcgcg	tacggatctc	ggctcttttg	agctttttac	cgcgttcttt	600
gcgcgtatga	aaaccgccgt	caatgcta	gaattcccta	ccctacaggt	gctgaccggc	660
caggaggatc	ttacaaaagc	gocgcacaac	ttaaagcaag	ggatcagaac	ctggttttaa	720
gcgattactg	gcgatctgcc	gccgaacaac	aaacgtgtcg	gagcgggcaa	tgcggtgctg	780
ttctgcgctc	ccgttcgcga	gcagatccag	cagatagagg	ccatcggcct	ggaaaaatac	840
tatcagggat	tatcaaaagc	catcgctgac	gccgggggat	ggtttatcac	tgacttcagc	900
tatacctggt	ctgaaaagta	a				921

<210> 5209
 <211> 258
 <212> DNA
 <213> Enterobacter cloacae

<400> 5209
 cgaagccacg attttcagga ggggtgctttt gccgcagccg gagggaccgg ttatcagttt 60
 aaattcgccc ggagagagac aaaaatcgac gtgctgaagg atggtgttat caccacacag 120
 aaagccaaca tccctgatat ccagaagatt ttttttatta ttcattccga ttccattaac 180
 cgctgtgata agaagagcct taagcataat cttttccgct acgcagcgct aatagcctta 240
 acctatagca agtggttaa 258

<210> 5210
 <211> 186
 <212> DNA
 <213> Enterobacter cloacae

<400> 5210
 cgatgttggg ctaacgtcat caagggtgctc agcggcgagc agcacgacag tttcaaaacc 60
 agcaagcgcc tgatcgagtt gatcctgatt acgaacatca ccggagacag taatatccgg 120
 ataaaaatga ctctgctggt tgtcgaagtt agtaacatca aaatcagctt tggaaatctc 180
 gattaa 186

<210> 5211
 <211> 192
 <212> DNA
 <213> Enterobacter cloacae

<400> 5211
 tgttttgccg gatggcgctt cgtttatccg gcttacagga ccgtaggccc ggtaagcgcc 60
 agcgccaccg ggcaacaaaa aggcgaccac acggtcgcct ttttttatta caacagctcc 120
 cgcgcccgcc acacaatgtc atgtgcgctc aggccatact ctttttgcaa gaagtctctg 180
 gtgcccacct ga 192

<210> 5212
 <211> 183
 <212> DNA
 <213> Enterobacter cloacae

<400> 5212
 tttgacgagt taacgcttat cgtctacggc cctatcaggc tggcacagga tacccgatac 60
 ggggtagcga tgacaaaata ttttgaacgt tgctatagcc tgttgtggtt ttgcacgaaa 120
 attttaattt ttatacgtga agttgaggta cagccatgtc gacacccgaa atcccgctccg 180
 tga 183

<210> 5213
 <211> 252
 <212> DNA
 <213> Enterobacter cloacae

<400> 5213
 gccagcgaca aagttattgg actggatgta tttgocgato ttgttggtgt tgatggtgcc 60
 atcacctatc agcgcgtctc tgatgaacac ctgcccgttc tgaataacga acggaagcgt 120
 aacggtcgct ccggcctggt gcgttacggc gaagcgggtca gccacgaaga taacctgcga 180
 ctgcatgccg gacggcggtat tctcaacgcc gatccccatc cctgccgcgt aatactgacc 240
 attgctggct aa 252

<210> 5214
 <211> 210
 <212> DNA
 <213> Enterobacter cloacae

<400> 5214
 ttcctcataa aaataaagca cgaaatctcg ggtaagcctg tactgaacct gattgctggt 60
 aagggttggt ttgtcctgaa gtatatcccc acgctggatg tactgaacgg gataaccttc 120
 aagctctccg tggacaatac ttttccattg agaccagata gccttatcca gtttcaccag 180
 cccggtataa tcatccactt tgtatatgtg 210

<210> 5215

<211> 414

<212> DNA

<213> Enterobacter cloacae

<400> 5215
 ggaatcatca tgattcgcac ggaaggttaaa gggcttcagg aattcgaacg ccaattactt 60
 tcccttggtg aaaaggttgg tacgcagggt ttacgggagg ccgggaaagc tgcacttgag 120
 cccgttctgg aggatatgaa agcgcacgtc ggttacgacg aatcagcgaa agatgagcac 180
 atgcgcgatt caattaaaaat ccgctcatcc tcttcgaaag caaagggcaa tgcagttggt 240
 tatcttcgcg ttggccccgag taaaaaacac ttcacaaag cgttgggtca ggagatggga 300
 accgtaaagc aagtcgcaag tcccttcatt cgtccggcgc tcgattatca gaaagcgaaa 360
 gttctgcgca tcttgcgat agaaatacgc gaccgaattg aaaaccaccg gtag 414

<210> 5216

<211> 405

<212> DNA

<213> Enterobacter cloacae

<400> 5216
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 gattatctgg agcgtcattc tgaataaaaa tcaaatctcg ttgctgaaac ttatgtaagc 180
 cattacgcct ttatgattgc gatgatggaa gcacaacaaa agcataatag atctgataat 240
 gaatttatta ctgggttgct ttcaaataat ggtgatgtat atgcaagatt agcgggttaaa 300
 aagcttgcaa atgattgttt aacgcaaagg agcattggtc aatccggaga gttaaataat 360
 aaagagtgtg atattgtgat tagagcagat aaatcagaac aatag 405

<210> 5217

<211> 375

<212> DNA

<213> Enterobacter cloacae

<400> 5217
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 gagatctaca cagggtgcggc ggcccggtac gtccagacat ggacacgcgc aacgctctat 180
 gaaaaggaaa gcagccctgg ctacgcctgac gaccgggacc cgatactgct caatgatgat 240
 gttaaaggcag ccatgctact gcttatcggt cactgggtatg caaacaggga atcggtagtt 300
 ataggtgaaa ccgtgtctca ggttccatta gctgtggagg ctcttcttca gccttacagg 360
 atatatggcc tatga 375

<210> 5218

<211> 381

<212> DNA

<213> Enterobacter cloacae

<400> 5218
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 ggcgttaagc ctgtcagcgt ttgtggctat ctccagctgg ccagaacca gaaaacaggc 180
 tcttacacag tagcgttcc accgggttgc aggtgacct attttcagag catgaacggc 240
 gatcagtttg gtaacgagtc gaggaagatc accatttcgg ggggaacagc aacagtgtca 300
 gcagcaggcg ataccgacta ctacgcaggg actgagcctg cggcagcggc ttatctcatt 360

ttccagatcg agagggcata a

381

<210> 5219

<211> 1419

<212> DNA

<213> Enterobacter cloacae

<400> 5219

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atcagcggaa	acacccttac	aggtaccggc	acaaacttca	ctgctgctgg	atctcttatt	180
cgtaacggat	gtaccgttat	tgcaatgacc	agccctgtgc	aggtatttca	gattaccacc	240
attggcagcg	caacaagtct	caccgtaacg	ccagcggcta	accagcagt	tccgcgcgga	300
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gaaggcgaaa	ttgttaaaac	gaaaggggct	cctatagatg	ttcctgcca	tagctggatc	1320
gacgttcgac	tcgatatgcc	agaggatagc	atctggaaaa	caagagcttc	cgaagcttct	1380
cttgaaactga	cagagcagcc	tgaggacatt	cagccttaa			1419

<210> 5220

<211> 498

<212> DNA

<213> Enterobacter cloacae

<400> 5220

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gacgtagcaa	caatgaaacc	actcattaac	tgtaaagcgc	tgggcgctac	aggacagacg	180
ggcagctttg	tagactgcac	tacgctgac	gataaccagta	aacagtttat	ctctgacctg	240
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gatttcctca	acgcagcaga	gaaccgggaa	accgtacagt	tttacgttga	gctgccaat	360
ggtcgaacgg	cgaacatgat	tctggccctt	tctggctggc	agatgaatga	aattaccgcc	420
ccggcaagtg	aagtcattca	aatcactggt	cagggaanaa	agaacaatat	tacttggggg	480
acggctgccc	gcagctga					498

<210> 5221

<211> 378

<212> DNA

<213> Enterobacter cloacae

<400> 5221

ttctcaggaa	aaactatgtc	taccatcgat	gtttctgcac	ttaaatccgc	acttctgaag	60
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acggcgggag	aactcatcga	tcatgaagaa	gcgctgcgag	acagtcagat	tcgagaagat	180
gcacgtaaa	cttcagagat	cagtgtgcag	ttgatcgtcg	attgtcttgt	ccatcccgat	240
ggcagcctaa	tcgcagctaa	agacaagcct	accgcagccg	agctactcca	gactcatgac	300
aacgtggcgc	tccttgatgc	aatcgccact	gtaaaaaaac	atgcgctggg	taagcttgaa	360

gacgcggaaa aaaactaa

378

<210> 5222

<211> 474

<212> DNA

<213> Enterobacter cloacae

<400> 5222

ccctctcccc	ggtggggaga	ggggatagtc	cttcacctat	gtgagtcttc	atcaatgaga	60
attaaaacag	ggttaatggt	ggcagcattc	gtgatgctgg	cgggctgtaa	cgcacccgcg	120
cagcacgtgc	cggtggaaac	ctgcaaagcg	gataaccaga	tgcagcagac	cacgctctat	180
tttggttga	atcgcccggc	aggggcgag	attaccggca	gcgagtggca	gcagtttgtt	240
gaccaggacg	tgacgcgcg	ttttcgcgat	ggcttaacgg	tgtttgatgc	ccgtggtcag	300
tggtcgggta	acgacggcaa	ggtggcgcg	gagccgagca	aggcgctgat	gctgatccac	360
gggaaagatg	cgcagagtga	gaagaatatt	gaagcgttgc	gcgggatcta	taagtcacgc	420
ttcgcgagg	agtcggtgat	gcgggttgac	cagccggtgt	gcgtgcagtt	ttaa	474

<210> 5223

<211> 243

<212> DNA

<213> Enterobacter cloacae

<400> 5223

caaacagcc	aaaaaggact	ggacttacgc	ctgccgggtt	gtggtatggt	tgaggcaggc	60
gcacaggaag	tgaaccttct	gctgagacga	aaaccggatt	ttatcgttta	ttttcatgcg	120
gataaaaaga	gaccgaatac	gattcctgta	ttcgggtccag	ggaaatggct	cttgggagag	180
agcgtgcgc	taaaagttgg	cattaatgca	ggctcaatcg	ccttgccctt	taagaataga	240
tga						243

<210> 5224

<211> 234

<212> DNA

<213> Enterobacter cloacae

<400> 5224

ctaaaggctg	gtcaactaag	cgaccagcca	cattacatga	ttaacattgt	tccgtttcta	60
tcgcttccat	tcgtattcca	tatcctcgta	ggcttcattc	gttttcgaga	tgaaaacaaa	120
aataccgagg	ccaataaaaa	taacgaagg	aatgatgatg	ctcgcaatca	gttcccagat	180
tgctggcgga	tcgttttgcg	ccaggaaact	gatacगतag	gcaatgaggg	ataa	234

<210> 5225

<211> 1383

<212> DNA

<213> Enterobacter cloacae

<400> 5225

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ctctatgtga	tagcgtcg	aatgggcctc	gcgatccggg	ctctcacctg	gcctgaacag	120
gaacacgtta	cggtctctct	ttttgtgcct	tcagttattc	tgcccatctg	tggtgtatcg	180
ttgctagttt	ttacaagttt	catatttcat	gacgccaaaca	ttcattatgc	tgaaaccoga	240
aaattcatag	caaaagagca	ggagattaat	ttaaaggcgt	atgcgcgaaa	aaatatcgct	300
atcgagcat	ggtctgcaat	cacccccctg	gaggaaaccg	cgtgaatat	gttgaaactg	360
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gaccagacca	ggaatgaaca	gatgttttac	cgcttactgg	accgatggc	agaaaaattg	480
aaggactata	actaccgtat	ttttgaaacc	ggtgtctggg	ttcacggagg	gagtggatcc	540
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aaaattgagt	acagcacaga	atgtcctgac	tacgcgatcg	ttagccaatg	gatgaactta	660
tctgattaca	gagttgaaaa	cgggttgatt	gttatcgctt	atttacctga	agaaagcggc	720
gaatcaaaga	gcatggaaaa	tgcattgtgca	ttcctgctaa	ccagtcatta	tgtccgggag	780
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atctgggaac	tgattgcgag	catcatcatt	cccttcgtta	tttttattgg	cctcgggtatt	1320
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<210> 5226

<211> 327

<212> DNA

<213> Enterobacter cloacae

<400> 5226

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ccccgcaaaa	tcatcgagaa	acaggacatt	acttccttcg	cccagaataa	gtacgggttc	120
accgtttcct	gttgcgtttt	gccatgcatt	cagcaactgc	tgagcacttt	cggcacgtac	180
aatttgatta	gcattccgtt	gaataccaaa	ggtattccag	ggcttaaggg	agtgattcat	240
agacgctatc	ctgatgcaaa	aaccgggata	gtttaccgta	tatatggggg	gataggtgat	300
ttgtttatgg	aaaggaagca	ggtgtag				327

<210> 5227

<211> 387

<212> DNA

<213> Enterobacter cloacae

<400> 5227

atatcgcggg	gtaaaaaagta	tagactgtca	gcctccgcag	gcatggaaaa	taatcgtaact	60
gtctggggtc	cacggttact	gtcgagcctg	atgattgact	ttggctcatt	gcccacgta	120
attatggcca	cgcggaatc	cttccctgc	gccgctatcg	tctggtttac	cagactgatg	180
gcatcttcat	tacgatccgt	attaaccac	cagactcctc	cgactggcat	gtggcgcaat	240
tcgtcccata	atgactggat	gccaatagaa	aatatggagt	ccacgggtgc	cctcttttcg	300
tcgaatttct	atgtctctca	gtttactagc	gaaagcgtag	aaataaacct	aacattgaaa	360
ttaaagaaca	tcagatttag	catgtaa				387

<210> 5228

<211> 552

<212> DNA

<213> Enterobacter cloacae

<400> 5228

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gtgatcgact	ggatctggta	cgcgtttggg	gaaggtatgc	cgcgtgcctt	ttccagagc	180
attgtcgagc	acagcctgac	gccgggcgag	ttaccgctca	cctttattgc	cgttgaggat	240
gaccagctgc	tgggcaccgt	tgggttggtg	cgttgcgatt	taatttcccg	acaggatctc	300
cacccctggc	tggctgcgct	gtatgtcgat	gaagccgccc	ggggaaacgg	gctggcgggg	360
aaacttcagc	agcatgttat	cggctacgcg	cgacgcgcgg	ggtatcacga	gcttcattct	420
tgggtctgct	gccgcgactt	ctacgaacgt	tacggctggc	actacatcgg	cgatgcgctg	480
gaatacccg	ataaaaccgt	ccatctctat	cgctgttcgc	tcacggcttc	cgcgggcgat	540
accacogagt	ga					552

<210> 5229

<211> 198

<212> DNA

<213> Enterobacter cloacae

<400> 5229

ccaaagcagt	atttgaaact	cgtggcgctca	cggcagatgc	acttcctgac	gcttctccgg	60
------------	------------	-------------	------------	------------	------------	----

acctgcttcc	tctcaatcag	caagcagaaa	agcagcgttc	agagacagtg	gaaaaaaaaatg	120
ttggcccaat	atctccaggc	ctggttaaat	ttactgctga	ccccctgttc	ctggatctct	180
ggcaaaagacc	cgcgctga					198

<210> 5230

<211> 597

<212> DNA

<213> Enterobacter cloacae

<400> 5230

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aaaaagaaga	cagcggttaa	ccacgacgat	attgcggacg	ggcgaatcgt	ctcctcccgt	120
catctcgtct	cagagcgggtg	tgctgaatta	tcagagctgg	aatatgcgct	gatcatgacc	180
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ggggcctttg	atgtttcgtc	tctgcaccac	gtgaatcacc	gcaaccgtaa	gaaaaagctg	300
gctgacatct	gcttttgtct	gaacgtggaa	gataccacg	tggtgacgta	tgcgctgaaa	360
aagctgggtca	aggcgggcta	cgtcaccagc	gagaaagcgg	gaaaagagct	ttttttctcc	420
actacggagg	agggaaaagc	gctgtgcatg	aagtaccggg	aggtgcggga	ggcctgcctg	480
atcaacattc	gtgcggaaaag	cggatattccg	ggcgcgtcga	ttggcgagac	cgcgcagtta	540
ctccgcgcga	tctcctccct	gtatgatacc	gccgcacgcg	cggcggcctc	gcttttaa	597

<210> 5231

<211> 387

<212> DNA

<213> Enterobacter cloacae

<400> 5231

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gctatcaaac	cgtacagcgc	tcagggttgaa	tctaccttca	gaccttttgg	tgacgccttc	180
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gtaatcaagt	ttgagagtct	caaaaatgcc	caggactggg	atagctcggc	cgcataccag	300
aagatcattc	ctatccgaca	ccgtgcgggc	aattcgcgaa	cctatatcgt	agaaggattg	360
ccagaactgg	ctcctgttac	accatag				387

<210> 5232

<211> 267

<212> DNA

<213> Enterobacter cloacae

<400> 5232

ttctcccgtc	gogaagacat	gcgcggcggt	gtgaaaatca	tcattccatt	cggcggtgaa	60
aagcggcgtc	tgaccatgct	catcacggg	atgcaggaaa	atcacgttgc	gactgtcttc	120
ggtggtcaga	tgatgatgcc	gatecggaaa	ggcgtcgcgg	atccgttgcg	ctatctcggg	180
aagaatatgg	gtctcagcgt	cgtcatggat	ctggtcgcgt	gcgtcgaagc	gcagaccgtc	240
aagatgatac	tcogagagcc	agaataa				267

<210> 5233

<211> 1167

<212> DNA

<213> Enterobacter cloacae

<400> 5233

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cattccgacg	gccattgcgg	cactgatcat	ccatatgacg	cgtctgctac	gcctcgatgc	120
cagcattcgt	cgcgacgtga	tggcctggaa	agcagagcag	ggtaacgcagg	agatcgacc	180
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tatcagggtta	tcaagatcca	gateccgacc	gcgttaaccc	tgctgggtggt	gaacgtgttc	1140
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<210> 5234

<211> 1005

<212> DNA

<213> Enterobacter cloacae

<400> 5234						
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ctgcgcgcctc	gcgagctgca	cccgatcttt	tacggctggt	ttgactggca	ctctgcggtg	180
cacggctact	ggetgctgct	gcgctgcctg	cgtctctggc	ccgaactgcc	gtgccgggaa	240
gagatcatca	ctctgttcga	agaacacctg	accgacgaga	aggtggcgaa	ggagtggcc	300
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gatgccgttg	cgcgcctatc	ctcggcaagc	gtggagcatg	ttgtcggcag	ccactacagc	960
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<210> 5235

<211> 801

<212> DNA

<213> Enterobacter cloacae

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gcagctctga	atgaatacgg	ggaactgcgc	cagactatcc	gcgacaaaat	caaagcccat	540
gccgcgcgct	gtgacaatat	cgcggttttc	tttggggaag	atatttttat	cgcctttggc	600
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catatcggcc	tgtgggccat	tccgaccgcc	attgcggcac	tgatcatcca	tatgacgcgt	720
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<210> 5236

<211> 342

<212> DNA

<213> *Enterobacter cloacae*

<400> 5236

caggactgta	aaacgctatg	gtgtaacagg	agccagttct	ggcaatcctt	ctacgatata	60
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ataccagttc	tgggcatttt	tgagactctc	aaacttgatt	acaaccagtc	tgccctgtgc	180
tcacaaacct	tctttaacat	cgggttcacc	tcctctgacg	atgaagcgtc	cacccaaaagg	240
tctgaaggta	gattcaacct	gagcgctgta	cggtttgata	gcgtcaagat	cggtcgcctg	300
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<210> 5237

<211> 363

<212> DNA

<213> *Enterobacter cloacae*

<400> 5237

ttgctgacgg	aacgtcgaag	gaataaacia	aggggggaga	agatgggtgca	tccgggagga	60
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cttgcgatta	actcgcatac	cttaaaacia	cagcatcgct	gttatccagg	agaatatggt	180
gcatccggga	ggattcgaac	ctccgaccgc	tcggttcgta	gcgagtagct	ctatccagct	240
gagctacgga	tgcatcggga	tttactactg	ttactgctga	tactcgggtat	cgcttcaaaa	300
gcaacacaaa	gtaaaatatg	gtgcacccgg	gaggattcga	acctccgacc	gctcggttcg	360
tag						363

<210> 5238

<211> 390

<212> DNA

<213> *Enterobacter cloacae*

<400> 5238

aataatggct	cctctgctgt	aattatctgt	ctctttattg	cttttatagg	catagttatt	60
tcattttata	tagactatcg	gaaaaattat	cgccagggtta	atcaaataata	tgcgatatta	120
acaaatcaac	agttgctcaa	aaaagaagat	tatcaaacct	ggcaaaatct	tgggttcttg	180
ggatttggtt	tcctcaccac	aattttatca	cgggtctttac	agggtaagcg	tgtgagatta	240
actgagtgct	gttggtttga	gccacagtcg	tgcaataaat	ttttttctga	ttttgatttg	300
tcattgggtta	agtcgtatag	aagaaaaata	cttattgccca	ctgttatatt	tttactgctg	360
ttaattcttt	cgagcattaa	tagtgtctaa				390

<210> 5239

<211> 1152

<212> DNA

<213> *Enterobacter cloacae*

<400> 5239

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cacaattttct	tccttgccga	actgattaga	cacacaagga	ttgatatgaa	acttttgcta	180
tcgggttttg	ctcttctgac	ggtggcgacc	accgcacagg	ctgaaaactt	ccgcacgtg	240
cagtctcctg	cgcagaagct	ggatatctgg	atcgacaaca	ttaaagacaa	tacgccgcaa	300
agctgggtgta	aggcggacgt	ggcgcgtgct	atcgtggcga	acggcaagaa	agaggtttcg	360
gtgctggaaa	acttcgtgcc	ggcctttggc	tcgtgctggt	agcaaccagt	cagcaagctg	420
aataccctga	actggacgct	taacgatccg	gaaggcacga	cgcttgcccg	gggcacagcg	480
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gcgattccgg	tcacctacat	tcacggcttc	ccggtgatgg	gactgaacaa	cgcggtcgat	840
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cgtatcgcag	aggtgaagaa	gatctggagc	gcatgggttg	caccggggcg	ggagctgaac	1080
gttgttctga	ttgacacgct	gogtccgcag	ctgcgcgac	cggcagtggg	cgcttggcg	1140
gcggcgaatt	aa					1152

<210> 5240

<211> 1056

<212> DNA

<213> Enterobacter cloacae

<400> 5240

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ctgcccgatg	cgttctggcg	cggagtgcgc	gagacgccgt	ggcgctacga	tctgttccag	120
ctgttaagac	gcattgatgc	ccagggcggc	gagcgttacc	cgctggggcg	cgacccgctg	180
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acgctgctgt	tctaccgcgc	ctggggcgac	gcgcagcctg	ccgtttcact	ggatcgcgac	480
gacaacaggc	gcttcgaagg	gtatctggca	tcgctgattg	gcatggggca	gcctgcccag	540
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cacggggcgg	acccggaagg	gctggagaaa	atcctgcgca	actatttcaa	cgtgccggtc	660
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ctcggtagcg	ccggggcgatt	agggtaaac	acctggctcg	gccttcagcc	tcagcctgtt	1020
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<210> 5241

<211> 1500

<212> DNA

<213> Enterobacter cloacae

<400> 5241

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cagtggatta	tgtcggttcc	cgaccattcg	ctgcgctcac	tcttcacgcg	ctacgatctg	180
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gcgcaggatt	tagagatggg	cagagtgggt	gccattgacg	aaagttttcg	tgactgggtca	300
tcagtaacgg	aaatttttta	tatcaacgcc	aaagggcaac	tcagggctgc	ctcgtgtgtc	360
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aatattgata	ttgcgcgtca	ttcccttggc	ggtggtctcg	cctctgcaac	ctctatgggc	1140
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tacggcggtg	agatattagg	cagtacggat	aatatccagg	cgtatccggg	tgaaggtgaa	1260
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<210> 5242
 <211> 522
 <212> DNA
 <213> *Enterobacter cloacae*

<400> 5242
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 gttgtcttat attgtgcca gtccatgcgg catgacaaga tcccttttat ttccgatata 180
 caccgcttca gtacggttgt gaaogogctg tctgctgggt ggtatagcgc tctggttatt 240
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 gggtttcgct actcagtttc cctttttccc ctgggttaaa gtttcacggg cgtgatgaat 420
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 atttataaat atgaagggga aaggcccccg gttaaagagt aa 522

<210> 5243
 <211> 885
 <212> DNA
 <213> *Enterobacter cloacae*

<400> 5243
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 ctgcttcgcc tggaaagcga aatcaaagct cgtccggcgg atgcgatct gcgcgcgcgcg 180
 tttgtgcagt ttctgactct cagcggcaac tgggcgcgcg cctgaccca gctgaagagc 240
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 aatgaagaga gccacacctt tgaatggctg atggacgcgc atgcccgtct tgggcgggtg 540
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 tccgatagcg ttagactggg gcgcaccacc gagtggctcc cgtcgcagca cgacggtgtc 780
 ctgtatgaag gcattgggca gaaagcctgg ctgagcgagc aaagcgaaag cccgctgctc 840
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<210> 5244
 <211> 1893
 <212> DNA
 <213> *Enterobacter cloacae*

<400> 5244
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 ctggcatgc gcggcatcga agtggcggac ccgtacattg agcgctgat ggaaggtttc 180
 gctttcctga cctcccgct gcagatgaaa atggacgcgc aattcccgcg cttttcacag 240
 cgtatgctgg agatgattgc gccaaattat ctggcgcta cgcgctgat ggcgatcgt 300
 gaaattcagc ccgacagcag ccggggcgac ctgagcaag gctttattgt gccgcgcgt 360
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 cagcaggtga acctgctgcc tttaaaaatt gagcggatcg agctgggcgg cgttccgcgc 480
 gatctgccgc tggccagct cggcctgagt cagcgggga tcagcagcg cttacgggtc 540
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 ttcttaagcg gcccgacat cgaggcgtg aagctgctgg agctggtgat ggagcaccac 660
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 gccctgcgtc aggaaggctt tgatgcggac caggccctgc tcccgacga tctgcgtaac 780
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ggcgccagcc	cgtggctttt	cggcagcgtg	ctggagcgcc	tttttgccc	cctggtctcc	1800
atcaacagct	ttacggagtt	cacgctcaag	agccagcagc	gcggcgaaat	cggctactgg	1860
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<210> 5245

<211> 387

<212> DNA

<213> Enterobacter cloacae

<400> 5245

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ttcccccgaa	ataacggaat	gaatgtgaag	tctttattac	tgtgctttat	tgtggaacca	180
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agcgcgcgcg	ggcgaaaactc	acaaaacgca	cgtagtcagc	agtctgacgc	tcttacgcgt	360
ccttcgtctt	cagcgacggc	agtttag				387

<210> 5246

<211> 588

<212> DNA

<213> Enterobacter cloacae

<400> 5246

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aacgggtttc	acgagcatat	ttttatgaat	aataaaaatt	ttcatcgat	tggtttccct	120
ttttttgcgt	tgattttcgc	gctgatcggg	ggttgtagct	cgtcttcaca	cagcgacccc	180
tcccgtctaca	atcttcagtt	tcaggctcat	cctcaaatca	atgattctgc	gccgcttaag	240
gtcagagtgt	tgctgctgaa	atccgatgcg	gatttcattg	ccagtgaact	ctactcctta	300
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cctgttcccc	gcgaaaaacg	gatttaccag	ttctggaaat	ggtccgcaga	tgaactccag	540
gccagcgtct	tccttgacgt	aaatggtatc	cgggtcatca	gccagtaa		588

<210> 5247

<211> 1032

<212> DNA

<213> Enterobacter cloacae

<400> 5247

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aaagccgagc	agcagtttgg	cgacaccatc	attccggcag	agcctgccga	ctggaacacg	180
gtggaaaaac	tcgccaccag	cctactggga	cgcaccaaag	atcttcgcgt	catgctggcg	240
ttaacccatg	cctggacacg	tcgtcgcggg	ctggcagggt	acgctgacgg	gctactgctg	300
gtgcaggaag	ccctgtcccc	ttactgggag	cagctttacc	cgtgctgga	agagtatggc	360
gaaaccgatc	cgttctacgc	catcaacgcc	ctcgcgggc	tgagtgataa	atctgacctg	420
acggctcgcg	tacgtaacgc	ctcactgctc	cgtcaaaacg	gcgatgagat	ttcgtccgt	480

gacgcccagg	cgctgcttga	cggcagtaaa	accgagtgtc	cggattatcc	gggcggggcgt	540
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cccagccatc	ccgcaccgct	gatgattgaa	cgggtgcagc	ggctgtctga	actcaacttt	960
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<210> 5248

<211> 630

<212> DNA

<213> Enterobacter cloacae

<400> 5248

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ctgtactttc	taaaagggaa	aatatattatg	cgctctgctt	ttgggtgccgc	ctggaacaga	180
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aattattgtg	gcgttccaat	tccctccaac	agcagatatg	cgacggttac	ggggagtgat	360
aaaaaacgtt	acatgtatcg	cgtaaaggat	atgattgctt	ttctgccaac	tgtactgggt	420
aatgcagata	tgacggtgac	gtctccaaca	ccaagccaat	ttgcaggtaa	acaaggattt	480
attatcttta	gcggtcacgg	ctggagcgat	gccactggac	atgtcacgct	ctggaatggg	540
aatatttgct	ccgatgattg	ccatttcttg	ggttctcccg	gtaatggttc	gtttattctt	600
ggcagcgcta	cgctctggag	cctgaaatga				630

<210> 5249

<211> 555

<212> DNA

<213> Enterobacter cloacae

<400> 5249

cacctaagtc	aaattttatc	cccctctctt	catcctctaa	atatecgtac	ggaaaagcat	60
atgaaactgc	gtgtattggt	atcacttctg	tttgttatgg	cgggtggcggg	ctgtaaggcg	120
ccgcaaaaac	cagcgatcac	cgatgatacg	attgtgacca	gccagggtgaa	tggcatcacg	180
ctgacgcacc	gtcacgctgt	tacccctccg	gcggagttca	ctcaagtga	tgaaccgtat	240
cgtgccatgt	acccggcatc	cctgatgagc	cgctctgact	acgggtggaaa	agtgatccgt	300
acgcttgaga	ccggcaaaaac	ttacgtcgtg	ctggggcagg	ttgaacattt	ctggatggcg	360
ctggccgatg	aaggagtgat	acagctgatt	ggttatgtgc	cgatgcgtgc	cgtgatcaag	420
getgaccagt	acgaagccac	cgtgcgtaaa	caggcactgc	gcccgaagc	gcgtaagaaa	480
accacctgtg	ttgatgtcga	tggcaacagc	aaagcctgca	aagacagcgc	gaacggatcc	540
tggatcctga	actaa					555

<210> 5250

<211> 1386

<212> DNA

<213> Enterobacter cloacae

<400> 5250

atggtatccg	ggtcatcagc	cagtaacgcc	cttcataaca	ggaaagagat	catcatgacg	60
aaagcagaaa	aggctcgtctg	gaccgagggc	atgttcctgc	gtccccacca	ttttcagcgg	120
acagaaagtt	acctcctcaa	ccacgttcgt	gagtgggggg	ccttgacgcg	ttcgtatctc	180
tggggctttc	tcgaccttga	gctggatgaa	gcgatgcttc	gccagggctg	tattgccttc	240
agctactgta	gcggtttgct	gcctgacggc	acctttttcc	agggtgcgcag	cgaccgcaac	300
ggtccggctc	cgctaaaaat	ccccgataat	ctcaccaatg	aaaagggtgt	gcttgcgctg	360
ccggttcgct	gcggtggccg	tgaagaggtg	attttcagcg	aggagcagtc	ttctctggcg	420
cgttttatta	cgcttgaaac	agaggtggaa	gacgacaaag	cgatgtcggg	cggggagcgc	480
acggttcagt	ttggccgcct	gcgtctgacc	ctgatgctgg	agaaagatct	gacggcagaa	540

2001

tggaccgcca	tggcggtggc	gtacgtcgct	gaaaagcgca	acgacaacca	cgtgcgggtg	600
gataacagct	acatcccgcc	aatgctgaac	gccaataaca	gcccgcagct	gtacggcatg	660
atcaatgacc	tgcacggctt	gctggtgcag	cgtagccagc	agatcggcgg	ccgcctgcgc	720
cagccggggc	gtttcaatac	gtctgagatg	gttgagttca	cgcttctctc	gctgatcaac	780
cgccaccttg	gcgacgtctc	acatttaaaa	acgctgcgcg	tgtttcatcc	ggaagcgctc	840
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gagagcatac	tgcgggtata	cgaccatgac	catctcgccg	tttgcttcag	caaactgatg	960
ctgatgctgc	gtcagggact	gttcctgggtg	atggaagatc	atgccatcca	gctgcggctg	1020
cacgaacgct	cccccggtct	gaacatcgct	accgagcccg	gagaccagca	tggtccgcga	1080
atttggcttc	gtgctggcgg	taaaagccaa	tgtccccggc	gaacacctgc	aaacctattt	1140
tcoctgcccag	atgaagggtt	cgccagtctc	gaaaatccgc	gatctggttc	agcttcagct	1200
gcggggcacc	atgcttcggg	caatgcccgt	cgcgccgcgg	cagatcccg	ggcatgcagg	1260
ctacagctat	ttcgaactcg	aaagggcgag	cgaactgtgg	cacgagatgg	acaagtccgg	1320
ggcattcgcg	ctgcattctg	caggggaatt	cccggtctc	gatatggagt	tctgggcca	1380
ccgtag						1386

<210> 5251

<211> 837

<212> DNA

<213> Enterobacter cloacae

<400> 5251

gcgctcaggc	cacgttcaac	gtcgacggac	atcaggtcac	gctggagttt	gccccgaaca	60
gcacccgcaa	cccgttccag	cttccccgtt	tctcatgccc	ataaccgcaa	ggacagccgt	120
atgacgaata	cccctgcgat	gaaccgatat	agctggtatg	gcaaattacc	cagcgccgga	180
gatttttttgc	agcgtcgctt	tccggatacc	ctgcaacgcc	agtggtcgca	ctggttccag	240
gtcggcctgc	tggcctggca	acaggaagag	cagcgccagc	gcgagcggcc	gttttctaaa	300
gccccgggtgt	ggaactttgt	cgccccgcgc	atgctcggtg	gccagatgat	tcagatgggc	360
tgcctgctgc	cgggcgggtg	cagcgtaggc	cgccactatc	cggtatgcct	gcaactgagc	420
ttcacccccgc	ccgagtggtc	atcccgccgt	ctcgggcagg	ctgagagctg	gtaccagcag	480
cttggcgctc	tggggctgca	cgcggtgcgt	aacagctatt	ctgcctccca	gctggatgaa	540
atgctgatga	ccatcccggc	gccccagccg	gttgagccgc	aaaagcgctt	cgacattctc	600
gacgtgattg	gctatgacga	cgagggtcag	agcacgctgg	gctggccgca	ggcgggcgag	660
tgttttgatc	cgctgcgcca	gaccagctac	tgttggaaca	accgctgcga	cggttatccg	720
ctctacaccc	acgtccacag	cggaactttt	accgggcagc	tctttacgct	gctggtcgat	780
ccggcaggcg	gcgcccgtcc	gggcgcgccac	ggtcttttacc	cgccatagtt	tgaataa	837

<210> 5252

<211> 357

<212> DNA

<213> Enterobacter cloacae

<400> 5252

acatcgctac	cgagcccggg	gaccagcatg	gtccgcgaat	ttggttctgt	gctggcggtg	60
aaagccaatg	tccccggcga	acacctgcaa	acccattttc	ctgccagat	gaagggtgcg	120
ccagtctcga	aaatccgcga	tctggttcag	cttcagctgc	cgggcatcat	gcttcgggca	180
atgcccgctc	cgccgcgcga	gatcccggtg	catgcaggct	acagctatct	cgaactcgaa	240
aggggcagcg	aactgtggca	cgagatggac	aagtcggggg	cattcgcgct	gcattctcgca	300
ggggaattcc	cgggtctcga	tatggagttc	tgggccatcc	gtagcccgac	agaataa	357

<210> 5253

<211> 396

<212> DNA

<213> Enterobacter cloacae

<400> 5253

tggttcgttt	attcctggca	gcgctacgct	ctggagcctg	aaatgagacg	tttactcgct	60
ttcgtactcg	cgttaaatac	ctcatatacc	atcgcccata	ctctcccggg	cgttaacacc	120
ttttctcaac	aacagatttt	tgaaaaactg	gtgcagaatc	gctgtatcgg	caagattgcg	180
gacagtgcga	cgctgaaaaa	tgatgcaaa	gcaagcgccg	cagcatggct	ggaagtcagt	240
aacctgcctg	ccgagaattt	cgaaaaagcc	gaogagggtt	tttaactcct	actgaaacaa	300

aagctaggtg gtacggcacc ggcaaaactat gaggtatttaa agtgcagctt aatatcccat 360
 agcgatgcga ttcgccaact caatgtccaa aaataa 396

<210> 5254
 <211> 987
 <212> DNA
 <213> Enterobacter cloacae

<400> 5254
 actttctgca aaagctacac attaaaaata caaggagttt acatggcaag tccgtcaaac 60
 gttgctccag gttactgtgt cgttcagcaa cccggcactc tggattttca ggcaagacag 120
 ctatttggca ctgcgcgcaa tgaaaaatcc gagtatttta tgcaattgaa taaagacact 180
 gcgtgggtca aacccggaca aatattaatt gttgctgacc cgcttggcga taatcaaact 240
 caacagatca atagcttagc cattgcaaaa aagaaggtga ccaacgcgct tgcgactttg 300
 gatggagcca ccgctgagtt tttgaaaaat aattatgata atataaaagc cataacaggc 360
 tggggcgata caatcgtcgg gggcgtgagc ggtacagggt agtcatattt taagcaaatt 420
 gaaaatattt taattaaaaat tgaagccacc tatcaaaatc agtacaggac acaaggtgag 480
 ctttttggcc aacaatttta tgctgagcgc aatgcgcttt tcgcgcaatt gaaacccttg 540
 tttaaataaaa taactaaaaa acagcttaag tttaaagatt atgcggatct taagagagca 600
 ttaggactgt ccacgaaatc aatagtcctt gaatggagta cagttggtat tggtgcaatc 660
 cctggctact caacatatat tgacagagca gccagaatat cctcttacct gaaagcaggt 720
 ggatgggttg ctttaggttt ttcttttatg aatacgtcta acgaagtta tcatgcctgc 780
 actactggaa gagaacatga gtgcagcaga gttgcagtga cagaatatag caaatttgga 840
 ggcggtgtcg ctggtgctgc attaggctcc tcccttgagg ctctgtttg tcttgcatta 900
 ggtgtgcca cagcggggac aggtacattc atggtgtggt caagtggaag gacagtgggg 960
 gcagggggaa aaacaaaaat tgttgggt 987

<210> 5255
 <211> 207
 <212> DNA
 <213> Enterobacter cloacae

<400> 5255
 caggcgctta cgcagctcaa tgaggtgccc aatcagcggg tgagtatcat cactgccaat 60
 gtttacgctt tatcactcga cgagggggat gattcggaaa caggcgcggc ggtttttacc 120
 tcagcggttt tgaccacggg ctcttcgggc ggcacctgct ttttcaattc gggctcctgc 180
 ggcgattgct ctggcgaagc ggctga 207

<210> 5256
 <211> 300
 <212> DNA
 <213> Enterobacter cloacae

<400> 5256
 cggccaggcg gcgatttccc ggtgcagggc ggtgatctgc tcggtaagat gctccgcaag 60
 ccacgcgacc tgttccctgt gttcactctc aaccgcgtgg cgaagctcgt cgaggttggg 120
 ctgcgcttca gcaaggtaat cctgaatgac ggtgctgcgg gtgcggaaga gctgccggtc 180
 aaagcgcggg ttccagcgtg cgtggcccat cagcgggtgt gcctgcgcc gcagcgcgat 240
 cagctgattt tgcagcctct caagaagcag tgctgttttc aaggcgtct ccagtggtaa 300

<210> 5257
 <211> 258
 <212> DNA
 <213> Enterobacter cloacae

<400> 5257
 tgccataagg ctttccctct cctcccccctc gcaaatttat caaaatctgc cttttttcat 60
 gcttattgcc tttttattgt gttttcaaca attattcata aacataagcg taaaaattgt 120
 cataaaactat taatcggttt tttgggtatt gcacaaaaaa tggatcacc atcgcaaaaag 180
 gagacggaat gcaccacgcc acaccgctta tcaccacct tgttggtgga cttgtgctcg 240
 cttttattct cggcattga 258

<210> 5258
 <211> 219
 <212> DNA
 <213> Enterobacter cloacae

<400> 5258
 cgtccctggc gtttatcctc cggcgttatg ccgctgggta tcagctccgg cgcgggctcc 60
 ggcgcacaaa acgcggttaag tacgggtgta atgggtggta tggtcacggc gaccgtttctc 120
 gccatcttct tcgtaccggg gttcttcgtg gtggttcgtc gccgcttcag ccgcaaaaat 180
 gaagatgttg agcacaatca ttcggtagaa catcactga 219

<210> 5259
 <211> 192
 <212> DNA
 <213> Enterobacter cloacae

<400> 5259
 cccctgagg ctggtgtttt attttgtcac agtcgaaatt tggctcgcga acgctctaat 60
 cctctctgcg ctacgctaaa tatcctgaca cgctactggg ttttcatcca gtgtttttta 120
 ctggcaatcc tggccacaac gagtaaaatt actcacctgc cgcttattct gtcatcagggt 180
 cgtgcgccat ga 192

<210> 5260
 <211> 1038
 <212> DNA
 <213> Enterobacter cloacae

<400> 5260
 tgtcaggaat ttccctggaa ggggtttactc ctgctttcgg gcgtgcgtaa catagcgcta 60
 actatatttg cttgcggact tattatgaaa aaaccagcgt ttatcatcac gatcgatacc 120
 gaaggggata atctctggca gaaccacggg atgatcaaaa cggaaaacgc gcgctacctg 180
 gcgcgggttc aggcgctttg tgaacgcttc ggctttaagc ccgtctggct gaccaactac 240
 gagatggcgg tcgaaccggg attcattgag ttgcgcaaaag aggtcatagc ccgcggccag 300
 ggtgaggtgg gaatgcatct ccatgcctgg aatagccctc cggagcacga tctgaccggg 360
 gatgactggc gctggcagcc ttatctgatt gagttttcag acgaggtcat gcgtgagaaa 420
 gtgctgttca tgaccgcgtt actggaagag actttccaga caaaaatgct cagccatcgc 480
 gccgggcgct gggcattoga cagccgttac gcccggttgc tgattgagct ggggtatcag 540
 gtagattgtt ccgttacgcc gcgcgtgaac tggcgcaacg cgaaagggtgc cccgcagggt 600
 aatggcggaa cgaattacca gcattttccc gatcgcgctt attttttggg cgtagacgac 660
 atttcccggc cgggaaacag cctctctctc gaagtgcgga tgagtatcca gtataaacac 720
 ccgcatggc tgaattccct gaagcagggt tacgatcgct tgcgcggtaa ataccgttct 780
 ccgtcagtta actggttacg ccgcgcggc ggtaacgcgc aggagatgat taaggttgcg 840
 cagcagtgcc tggctcaggg gaatgactac gtagagttca tgctgcattc gtcggaattt 900
 atgcctggcg gcagccctac ttttaaagac caggccgcga ttgagggact gtatcaggat 960
 ctggagcagc tctttacctg gttatcagat aagaccgtgg ggatgacgct tgcggagttt 1020
 taccagtaca aaaaatag 1038

<210> 5261
 <211> 327
 <212> DNA
 <213> Enterobacter cloacae

<400> 5261
 acaacccttc cgcacgtgcg gtctcgaggt cgctgtttta ctgtttgtaa aaatcaccac 60
 gcattgcaat tctccagact cggcaaaatt tggcacatat tacccaaacc aatagttcat 120
 gagagatga cgcagtatct cttctcggtt ttgcagcata aatcacgcgt acccctgctg 180
 catatcggtg aatggctgaa gcctgagcat tgtgatgata tgataaagag attagcgttc 240
 gggatattcc ccgactcata cttcaaaggc tacagttatg atcatcgtaa ctggcggcgc 300
 gggctttatc ggcagcaata ttgttaa 327

<210> 5262
 <211> 930
 <212> DNA
 <213> Enterobacter cloacae

<400> 5262
 ccaaacgaga agaacatggt taaattcctg aatgctcgct accgccacat taccggggcgt 60
 cataacattc cctacgcttc ccttccggtc acgcgcgacg tcgttgccgtg tgattccatc 120
 gtgatccctt gtacggggcg ggatttcgtc gaagaggcgt tattatcagc gacctttgca 180
 gagcgttacg ccaccgacgt cagcgagatt gttatcgta cgcgacagcc tgaatccgct 240
 ttcggcgagc tgccgctaaa aaccgcggtt gtcaccctca cgcttccaaa acgtgaagag 300
 ggggtaccgt ataagcagat ctacctcagt cgtctgggtg agcttaaatgc tccgttgagc 360
 gcgcgcgggt aaggggtgct gatgatcgac tccgatctca acctgcttaa aatgccagag 420
 atcaacatgg cggatatgca catctactcc agcttccgtc agggcaaaaat gattgccaag 480
 ctggacggtg cgccagcgga gaaagtgcg gcatattaca aagaaacggt gcgcccgtat 540
 ctggtcgatc acgttaacgg cgcgtttctt gcggccacca aaaagacctg gcgcccgtatc 600
 tgcccgtctg ggctgacgt gttccaggat acctgggagc tgatggacga tacgcagccg 660
 ccgaccgatc agctgccgct cgtcgcgctg ctggacatgc tggatgtaaa aacggttaac 720
 ctgggcgact ggatgaactg gccggtctcc aagaagatcg gcggtcagga agccgttgtg 780
 ccgaaagaag tgattggcgc gcacggtggt ttcccgcttt ccgagtggca gaagtatctg 840
 gaatcgccgg ataacaaact gctgttcaaa ggtcaggact acaccgcaa ggtgcgttac 900
 ctgacggacg aagagaaaaa gaatcagtaa 930

<210> 5263
 <211> 246
 <212> DNA
 <213> Enterobacter cloacae

<400> 5263
 ttcaggcatg gttcctccgt tgagatgcag aatgcaaaaa accccgcagt tgcgggggtt 60
 ttcaatacaa ggagactaaa attatttgat tttagcttct ttgtacagta cgtgctggcg 120
 tacaactgga tcgaattttt tcagttccag tttttccggc ttagtacgtt tgttcttcgt 180
 ggtggtgtag aagtgcctg taccagcaga agaaaccagc ttgattttct tcgcgaatac 240
 ctttag 246

<210> 5264
 <211> 195
 <212> DNA
 <213> Enterobacter cloacae

<400> 5264
 tggtagctgg cgaaggtagc gatgtctggt atcaacgttt atggcgaacg ctggagccag 60
 aatatttcga cattatcacc caggaggcgc aacgctacct gttaccgtta taaaaattta 120
 atcagtcctg agtgcgtgat aaaaattgcg cagtatgagg tgttcattta tgatgcacct 180
 cttatcacgg actga 195

<210> 5265
 <211> 183
 <212> DNA
 <213> Enterobacter cloacae

<400> 5265
 ccagtatcgt cagctatggc atcatgcgtg gaatcaatcg cagatctcaa cattaacgct 60
 cccgccgggc tggcaagtca gtcgggggca gacaacacag tccggatgtg tcagcatcac 120
 ggtcacactt atttctcta tggggcgcca ggcgcgtta acgcgtctgc actgcccggt 180
 tag 183

<210> 5266
 <211> 183
 <212> DNA
 <213> Enterobacter cloacae

<400> 5266
 ctctgtcgggc tcataacccg aaggctcgtcg gttcaaatacc ggcccccgca accaacaactt 60
 cttaaaaaaa taaacaccct gaagggtgtt tttttgtatc tggcgtttgt gaaaatgccg 120
 ggcatgatac ccggtttaat gccctacccc cgccgcgcca gcgtttcccc gtctgagaag 180
 tag 183

<210> 5267

<211> 258

<212> DNA

<213> Enterobacter cloacae

<400> 5267
 aactgttcag acagacatgt cagggataaa gctgaagaaa aagggtacaac gaagaataac 60
 caagacatag gcctgccggg taagtgggtgc acaggactgt cggaaagtac gctcagagag 120
 ggctcgtttta gcatgatgca ccaccgccag ccagccttaa taatggtaat gtaccactgg 180
 gttaccagac agaccagtaa cgcatacaac ataaaactgt tttttaaaaa acgtcaggaa 240
 cgtagcctga ctttttaa 258

<210> 5268

<211> 480

<212> DNA

<213> Enterobacter cloacae

<400> 5268
 tttatgaagc atctgaaaat gattgcagcc atgttactgc ttactccttt gacatcattt 60
 tcacaggaag cagacagcgt ggaggctttg aataaatata gcaccgctct gacagagctt 120
 tttatgaagg aattgcagaa gtcacagcag gcaaaaaatc ctggcggaat ggatttggtg 180
 gctgctaacg acgctgttgc ttctgactg agcaaaaagt ttttcatttt taaaccggct 240
 gatgaaacca gcatcaaac ttctgctgaa aaattaaagg cactgaaaga tgataccgaa 300
 gctcttgaaa aggctacac catcattcag ccagataata taggaagcaa taacatttca 360
 tataagggtga cgacaggctc tcggatctgc tttgttcagg tcacacgcag taagtcattt 420
 tcaataacta gaacggttgc tgtcgatagc atagattgca cggggcctga acagaaatga 480

<210> 5269

<211> 420

<212> DNA

<213> Enterobacter cloacae

<220>

<221> unsure

<222> (37)

<220>

<221> unsure

<222> (44)

<220>

<221> unsure

<222> (107)

<400> 5269
 aggaaaataa ttggttattt tagcaatcat tgcagtnatc gccntgggtg gtacgcttac 60
 ggatttatta acaccgtga gctgagcgt ttgcgtaaaag aaatganact atacgtggat 120
 cgcatggaag cagcggagct ggacttacac gcaatcagaa gtgtagcgga gcaccggtg 180
 cagggtgcag gtaaacagtt tgccgacctt tacagccgta tcgacgggtg aactgtgacg 240
 ctgacacccg aagatcagct gttactggca acgatgccat ttaatatcca ggatgtagaa 300
 gacatcgtaa acgagcgcgg tccaaagaca attagcggcc gtccattctg ggaagttgag 360
 ccaggcccgcc ataactatga atatggcccc caatatccgt atttcccaga ccagcgctag 420

<210> 5270

<211> 387
 <212> DNA
 <213> Enterobacter cloacae

<400> 5270
 atgtcttgct acggcgataa aatgtttcgc cataacactg agcgagagtg gctcatccat 60
 catctacagg agctttatat gcgcaaattt aagtacataa tctgtcacca gtgcgaaggc 120
 cacgggacca tggaaaaccc ggccctttgaa aatggattca cccaatcaga aatggctgag 180
 tgggagccag aaatgcgtga aaagtatttt gccggagcat tcgatgttcg ctgtgacgtt 240
 tgtgccgtg acggtaaact cagtgtacca aacgtagcgg ctatgtcttt ttcagaacga 300
 cgggttcttg cagcacggcg gcgtgatgag cgtcttcagg cagctgatga acggctgtcc 360
 cgccaggaac gagcaatggg gtactaa 387

<210> 5271
 <211> 873
 <212> DNA
 <213> Enterobacter cloacae

<400> 5271
 ggtgcgacag caaagatgaa aatgacgaag ccaaaaccgg taagccggat gaaaagaccg 60
 tttattagtg agcttgcaga actgggttta tcgggtgaaa ttctttcaat tcgaactgac 120
 ggcattgcagg ggaagcttat acccgatctt accgcagggg tgagtgaagc aggccgtgtg 180
 aaaaccggca actgggtaat ctctgacaag agaaccctcg accatgtcgt tttgtgtgtt 240
 gaaagacaag atgagaacca tgatgtgttc gtaggtaaat tcatccagtt acatgtagcc 300
 gctaataaga gcctaaagat cgtcgaaatg gccgatgtga aactgggtggc cataaccagc 360
 togatctcta ccacttttaa tgggggggatt aggagattta aaggggttac gtatgtgtca 420
 ctttcccaaa cagctcaaac cactatcgac ttcccgaagc gtatctacaa agagggccag 480
 gaatgtactt ctgtcaccag cccgtgaccag ggtcccttcg cccgggatgt taggttgaat 540
 tgctaaggggc gatgtgttgt caccggcgta aggtccccct ggcgactga gcccgcgac 600
 ttaacgcccc gtcattgaaga aggaattccc gacgaacga acggaatttt acttcgccgt 660
 gatattcata cactgttcga caatgacat tgccgcataa accctgacac tatgaaaatt 720
 tacttcagcc gggaggcccc ggagttggat gatgatctcc tgaaatggca tggcgatgag 780
 atagagacga caccgatgca ggttccgggt aacatcgaaa accttcggat acgatggcaa 840
 aaatttaagg ctaaggatcg tcagcgtaaa taa 873

<210> 5272
 <211> 501
 <212> DNA
 <213> Enterobacter cloacae

<400> 5272
 tactgtagag cctttgttca ttggaaatcg tacagggagg cgcattatgga ccgcattcaag 60
 tacctgaaat ggatagctga agaataacca agtacggctc agcagctggg gccctggtta 120
 aacagagcaa ggcactatac gcccgacatg aaagagcatt aggcaggtgt acagattcaa 180
 gaaaagggga ttgtttagag gcttagacaa agtactaate gttatcatgg agattgtctg 240
 accatacatg ttgtacggct tccggaagaa atacaaaaca agggatgggt taagtctttt 300
 ctgaagcttt gctgtgaatc gaatccctgg tgcgatgttg taatagaaga cgtgaaaaac 360
 ccatatttat taagcttttg taagaaacta aactttactg tattagatga attttaccgg 420
 aatacttaca tagtaaacac agatgccatt atgagtttac ctatcccacc cttagggaga 480
 tacgaaacct atctttatta a 501

<210> 5273
 <211> 273
 <212> DNA
 <213> Enterobacter cloacae

<400> 5273
 tgggtacaga aaaggcagtt gcttgcgctg ggcgtaagtt acccgccgaa aagcggtctg 60
 atcgaacgac tgatcggcac tgaggtatct gacgagcagt acgaacgctt tctggggcac 120
 agcagagca agcaggctga acagatccta cgcggagagc agccagccaa ggggcttcag 180
 tatgcaaagc gagcgaagaa gctcgcttct gaaagaaaag ccacaattga tctggataac 240

gagcacctgt ctgaaatcga aaagtatcgg tag

<210> 5274

<211> 444

<212> DNA

<213> Enterobacter cloacae

<400> 5274

aaaccggaag	cagtataaac	acaaacaggc	ccctacagcg	taaggattgt	gatggacgat	60
aaagagcaat	ttacgaatct	tgtggcaaag	catgcctccg	gactcaccga	agagcagctg	120
gccggttacg	atgcctgttc	cctggatggg	gaatgcgtca	cgcccttcata	cgagggtttc	180
cgggggtatc	gtaccccgca	taccctggat	gaatttctgg	agatggccat	atcgctgaat	240
gccatccacc	cgatgaata	tttaacggat	atgctgctta	agcctcatga	ggatgatcggc	300
gctctggccg	atgaaggcga	ccagctgaac	aacgccaccc	cggtttatatt	cttcccggat	360
accggcgtct	atgcagcggc	cgtcagtga	acccgggtgc	tcgatgcctg	gctttgctgg	420
ccatgctacc	cggcgaactg	gtaa				444

<210> 5275

<211> 408

<212> DNA

<213> Enterobacter cloacae

<400> 5275

ctgtttctgtg	ctttgctcgc	cgggtgggata	gttcttgcct	gcttaaacaat	aactcaggaa	60
ggaaatctga	tggcaactga	aattgaagtc	atgactgtcg	cggagctgca	tgctcaacta	120
caacagctgg	ttgatgaggg	gcacggagat	attccggttt	gcgcgtcaga	tctccgtgcc	180
aggtatccat	ttaaggctta	taccgtgctc	agtaccgcag	gctataaccga	agcgtgctg	240
attaatgtgt	ggccggatgc	ccattttaca	cgtaaagagc	ccctgcccac	taactggggg	300
aaaaaccgtg	tagcagagtg	gaacagtgat	gccgatgccg	ttcgccagtc	ctgcggggcc	360
ttcgagata	atcctcaatc	aagacaaatg	acaggtgata	atttatga		408

<210> 5276

<211> 573

<212> DNA

<213> Enterobacter cloacae

<400> 5276

gtcatgattt	cttcatcact	tttatgggtgc	tctttttcac	ctatcacaca	gcaagttatg	60
aatacagaggc	ctgtaatgga	cgctaccgaa	actgaagagc	tcgaaaaaat	tcgcaagaag	120
gcaatggatg	aagttacaag	tgctcttcag	gcgcctgaaa	ataagttccc	gggtattact	180
gagggcgagc	cagctttggc	ggggtcaggc	gtaggcgcag	cggtctcctt	tggtgctctc	240
tatacgcttg	gtacaactgg	agtgtcagca	gctggcatta	cctccgggct	cgcaacagca	300
gggtctatcg	tcggtggtgg	tatggttgca	ggcattgcgg	tattggccgc	acctgtagct	360
gtgttaggga	ttggcggcta	cgcggtgggtg	aaacacagaa	aaaatgcgaa	actgacagcc	420
gcccttagtc	aggccatcca	aaagctctac	gaagttcagg	aaaggctcat	gtcgaatgcg	480
gaatatttta	aggcagaaat	tgctggcatc	aaggcaacaa	tcgacatgct	tactaagaaa	540
gctccaaaag	gtagcctggt	cgcggtgagg	taa			573

<210> 5277

<211> 453

<212> DNA

<213> Enterobacter cloacae

<400> 5277

agagctaaaa	aggacggttt	caattatatg	aataaaaacag	cgttagttat	gattctggga	60
atcctcggat	gtggtaaaagc	atttgcagcc	actgaattac	agctccagca	aaaacgcgtt	120
atgcatttct	gtgccaatgc	cagccttcgg	ttgttaattg	ccggtacaac	ttatgcgaat	180
acgtctgaca	atggacgacc	agaaaaagaa	agagtggcaa	tcctgaaaaa	tcagttgta	240
agctcaacag	cttattcaat	ggcatctccc	ggagttcaga	gggccatgat	gagtgtgggtg	300
gaagatatgg	ccgatccgaa	agaattagct	cttcatcaaa	aagaggttag	acgtcttggg	360
gctagttatc	tttctgacag	cgggtgttaca	tgggcttcaa	aaaccgtttc	accatttaca	420

gcctggtgta actttaaccg tttcgaaagt taa

453

<210> 5278

<211> 204

<212> DNA

<213> Enterobacter cloacae

<400> 5278

atgcaaacc	aaaaagaaat	tacagttggc	cagatctggg	aagaagtgga	tccaagactg	60
atccggaag	tgcgagttgt	tgaggtggcc	tcgttagaag	ggcccaaagg	catcctaatac	120
gaaaacgtg	agtctggtcg	taagaactgg	gcgtcgatcat	cccgttttaa	tggaaagcgt	180
ggggggtatc	gtcttatttc	ctga				204

<210> 5279

<211> 462

<212> DNA

<213> Enterobacter cloacae

<400> 5279

gcaacagctt	catgcgcgtt	tacaacaacg	acaacggcac	ggaaattgcc	cgtttcgatc	60
tgtctgaaga	tgcccaacc	gaaaccgcta	tggtcttcgg	tgaactgtat	cgatcatggcg	120
ctgagtgga	gtttaaagct	gtcggtcagg	gctttgccgg	tgccctggcg	gctcttgccct	180
cccagcacgg	cgttaacatc	taaaataacg	ctgaatcata	ccccggcaat	gccgggggttt	240
tttttggttg	cgatccgcta	tcaggagggg	ggggggcaga	aagggttcgg	gaatctcaga	300
aagcagagag	atgttaattc	tgacgtgagc	cttttaaagg	caggaaacgg	atttttctct	360
ggttgctggt	taaagcctgt	attccgtgcc	ttatatcaac	agcatgcccc	tctgatatat	420
gttacgtttg	cgacttatga	aggcacgggt	tctggaagat	aa		462

<210> 5280

<211> 210

<212> DNA

<213> Enterobacter cloacae

<400> 5280

acgagtctct	ttgagcctgg	ttacagtgac	ccatttctctg	gaacattcat	caaattgtcg	60
ctggcgatcc	cgataacggt	gttcttctctg	ctgacgaagc	cagtcgcgat	caacagcgaa	120
ttttcggtat	ccaacaaaga	gcccttgtag	tttggccatg	acaacattcc	ggtttgctta	180
gaactgttca	gacagacatg	tcagggataa				210

<210> 5281

<211> 225

<212> DNA

<213> Enterobacter cloacae

<400> 5281

gttcggctgc	ttcgcaagct	gatttcattt	ggaagaacgc	ggaagacctg	tgggggggat	60
ttcaagcata	ccgacttcgg	caagatcatt	ttgccgttta	ctctgctgcg	tcgattggag	120
tgcgactgg	agtctacacg	ggaagcatcg	ctcgatagcc	aaccagccac	gatttgagttc	180
ttagaagcag	agttcagtg	tgatttcgat	gcgctgctat	cttga		225

<210> 5282

<211> 207

<212> DNA

<213> Enterobacter cloacae

<400> 5282

agggatgagg	acatgcagca	tgttacacgc	ttaaccccca	gatggtatga	tgggcttgct	60
ttcacctttt	tgtccgaccg	tcattacggt	ctgataattc	gtgaggaaca	cggtatgagc	120
aatgaagtta	cgaaagggat	gctatcggct	caggtacgcg	gaggtattgt	gcgtgactgt	180
tctgtgcttt	gctcgccggt	gggatag				207

<210> 5283
 <211> 1398
 <212> DNA
 <213> *Enterobacter cloacae*

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<400> 5283
ggtaaacaca tgagtcagtc tccttatgat gatgagttca gggccatccg ttatatcag 60
ctccgtgggc aggatatcgc gaacgctcac gagacaatta gcagtgatat agagagcctt 120
aaggcacagt tgaccgggct aatcagcggc actgaacttg atgaagcggg gcatctggcg 180
cttaaagaac atcatctgcg agaaatgact ccttcagata ctgccatgca ttctactagt 240
ctcaagacta tatatagcga ggctaaccag cgtgtatgcg gtgatatggg actgaccaca 300
atactctcca cggatgacct ggctgttgta gatgcccgga tccagaatca tattaaagaa 360
tttaaatgat gctacgcgct cgacgcctgg gattatgcta ttgcctgcgg atgtgggctc 420
atagcatcca tgctggattt actttgcgtc agagccccgc caaaacctac ggtgagcttt 480
acggcagaag tggatggcat tttcaataaa cagggtgcaga aagccttcaa tgccattttg 540
ccggaggacc tgagtaaaaa actctcagaa atgttcacct taggggcacc ggacagtctg 600
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cgtgctttgt cacacgatcc catactgggc attattatcg gcataaagga tatgctgaac 720
gggacctgta cgggtggttc gaatggacag atcgtggttt atccttccag taaaggcgtt 780
actgacgaaa caaatatttt caggctcctc gccagaatgt ttggacacct ggcacgggat 840
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ctacttgcta tgcttgaggg gatccctgtg gggagttcta acttcggcaa acaaatagag 960
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gcttttgggg agaccttact ggataccatg ccgttgcggc taaatccacg cttccggatg 1140
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ggcaatatcc tcaatgcgaa ttacgcctcc tggatggggt tggcctggaa tggttttcac 1260
tcaactcaag ggtctcttta tcagcgacac ttaaagcttt gggccgggat tgaaaaggca 1320
gaactggaac ggttcagaaa caatatagac agcatcgagg cattgaacat cagagcagga 1380
aacttgccag tcaagtaa
  
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<210> 5284
 <211> 210
 <212> DNA
 <213> *Enterobacter cloacae*

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<400> 5284
tatgacagac tgaagccccg gatagcgctc ggcctttcca tgaataaaca gccgcttgct 60
atgaagatca cggatccttg gcgcaaaagc gaatcccagc aggtgcatca gggcgaaaac 120
atgttcagtg aagcctgcgg tatcggtgta atgctcggtt atttcagat cgctttcatg 180
gtacagcagg ccatcaagca cgtgggttga
  
```

<210> 5285
 <211> 384
 <212> DNA
 <213> *Enterobacter cloacae*

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<400> 5285
gtccagatcg tacaccagcg gtgtgatttt acggccttca aacagctcgc ccacctcaat 60
gcctggctta aatgaacgg tcagggtggc cggatctata ccataagat cggcatcaaa 120
cagcgcatgc attgttgagg tcatcaggat gccattagac ggattgtacc gggttccatg 180
ttcaatgtgt gccgcatcca ggacaccacc attaacccaa ccggttaccc cacaacggcc 240
agcgaaatcc tcgatgagca gagctttaa tttaccctgt gccacgccac tacgttgctg 300
cactacgcgc tcgcagtgct caccctggat atctacgtca ggtttccgca ttggttcgct 360
ggtggccgct tcaacttggt ttag
  
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<210> 5286
 <211> 225
 <212> DNA
 <213> *Enterobacter cloacae*

<400> 5286
 atccagcatg gatgctatga gcccacatcc gcaggcaata gcataatccc aggcgtcgag 60
 cgcgtagcga tcattaaatt ctttaatatg attctggatc cgggcatcta caacagccag 120
 gtcacccgtg gagagtattg tggtcagtcc aatatcaccg catacacgct ggtagcctc 180
 gctatatata gtcttgagac tagtagaatg catggcagta tctga 225

<210> 5287

<211> 258

<212> DNA

<213> Enterobacter cloacae

<400> 5287
 tttgtgggag acaaaacgcc accggccgcg ccactaaat cgctggtgat cgaactgtcc 60
 ggtgccccta tagggaacat ttctgagagt tttttactca ggtcctccgg caaaatggca 120
 ttgaaggctt tctgcacctg tttattgaaa atgccatcca cttctgccgt aaagctcacc 180
 gtaggttttg gcggggctct gacgcaaagt aaatccagca tggatgctat gagccacat 240
 ccgcaggcaa tagcataa 258

<210> 5288

<211> 195

<212> DNA

<213> Enterobacter cloacae

<400> 5288
 atagtgaag gtattgagac actgagtttg cagcttgatg agaatgaaac tatggccctt 60
 gctcaattag ttaaactgtc gagctggagc gatcttcgtg gctgtgctgt gagtgacgaa 120
 gaagcctggg taatgaaaag cgcaattgaa aaattacaac aggcgttaag ggaagaaggt 180
 tatgcgcctc gatga 195

<210> 5289

<211> 282

<212> DNA

<213> Enterobacter cloacae

<400> 5289
 aacgtgatca atttaacacc ttgccggttg accgtaaaga aagatgcgct acatacaagt 60
 gtagcaccgt tctgtacgtg taaattcctg aatacggcga tggctgacga atacgccgcc 120
 ctgtccctct cactcttcat caaccgtaaa actgccatcc gagtgtcaac aatgttagga 180
 tggtagcga ttgataatga cggtaacaag catgttagac aatgttttga gaattgccac 240
 acgcaaaagt cctcttgac tctggcaggc acattatgtt aa 282

<210> 5290

<211> 225

<212> DNA

<213> Enterobacter cloacae

<400> 5290
 cttctcatta ttggccttaa cggaaatttc gtttccctca ggaaaccagg tctgattatc 60
 agtgagcgcg aaaacggccc gcgagaacat ctcagggtggc tcgcttttca atacaaaacc 120
 gtgtcccccg gcggcattaa ctttgcgcca gatatcatta ttgtcatccc cgctgaccac 180
 caggagtcgt acctgtgggt aaagttgttt tacttctttg agtaa 225

<210> 5291

<211> 183

<212> DNA

<213> Enterobacter cloacae

<400> 5291
 tttcagggcc gttccggaag agagccaaaa atcgattacc agcaaactg gcggggccatg 60
 atctctaatt tgtcggtagc aatcatcctc attcgtcacc acacacgcct gtttaaaactg 120
 gcaatgtgta atcagaaaat tggcgatgcc gcttgctacc aatggatggg catcaacgac 180

taa

<210> 5292

<211> 501

<212> DNA

<213> Enterobacter cloacae

<400> 5292

gctccatttt	ttttgatttt	aaaattgcct	catgatattg	tcaacgaatc	tcaccctttt	60
tccaacccca	cccttttgaa	attaaaggaa	attaaaatgc	tgcccgacaa	tcttgtcccg	120
gcaaagtacc	acattacgcc	tgtggaacag	ccttcgacgg	aagcagataa	agaggcgaat	180
ttcactcaag	gaaaaagaaa	actctccgac	tatgaagccg	acataattaat	tggtgtttca	240
cgcactggca	aatcccgtaa	tatgggtgctg	gaagagcacg	atcgccattt	aaaagagcgt	300
ttatttcgcg	cgatcaagat	tgaagcctta	gttcactctgc	tgaatgattt	acaggccgaa	360
ggggaaatag	acgccagac	gctaagtcaa	ataatggctg	agaaaacgca	gcaaataaat	420
gaagccggca	atgaaatttg	gcttaattta	attacgcgtg	aaaaaaacaa	tcccattttt	480
tataacctgg	gggaagatta	a				501

<210> 5293

<211> 318

<212> DNA

<213> Enterobacter cloacae

<400> 5293

tttatgaaaa	aaccactaat	cgtttttaacc	gttacgttga	tgttagccgg	ttgttccacg	60
ttgaaaaccg	atcaggetat	tccactcctg	caagcggaaa	ccgctaaaat	gctgggactg	120
ggatcatcgg	atgaaataac	tgtgaccaat	gttaatggcg	cccagccgga	cgcactgggt	180
ggacaaaagc	tgtottatcg	cgccacgacg	gaaaaagggc	gtatttttga	ttgctcatca	240
atgatgatgc	cggggatttt	aggatccgca	ccgacactca	gcgcgccaac	ctgtacacct	300
gttgtcacac	ataaataa					318

<210> 5294

<211> 282

<212> DNA

<213> Enterobacter cloacae

<400> 5294

ccatcgcgca	gaaagagacc	ggtggcgaga	atcctggagg	agaaaatccc	ggaggcgaaa	60
accctggcgg	tgagaatcct	ggtggtgaaa	accccgagg	cgaaaaccct	ggcggtgaga	120
atcctggcgg	tgaaaaaccc	ggaggtgaaa	atcctggcgg	tgagaatcct	ggtggtgaaa	180
accccgagg	tgaaaaaccc	ggcagcgcca	agccgggcat	tttccagacc	gtggcccaaa	240
gcagcaacca	gtggaatacc	gctggcgcg	tctccacgct	ga		282

<210> 5295

<211> 477

<212> DNA

<213> Enterobacter cloacae

<400> 5295

ttacgcgtga	aaaaaacaat	cccatttttt	ataacctggg	ggaagattaa	cgtgaatgat	60
gatagcggta	ataacgttta	tttgacttta	gatgataaaa	aaagogatga	atttatctta	120
aagcagaatc	tcgacgccct	gaaaaagata	aaaaatgacg	agatgacggg	aattacgcag	180
gatttggttt	cgattccggc	cacgctggta	cgccgtgaaat	ggcagaaccg	tcgggagatt	240
tacgccttgc	aggccaagga	ggagatatac	ggcgcggtga	tgaacgccat	tattgaacag	300
cgtcctgagc	ttaaagagaa	gatcctcggg	cgactggagg	cgaactatca	gtacctgctg	360
gcacgcgaga	cagccaccct	gcgcctgacc	cgtaaaactct	cggaaaggcaa	ttaccgtaca	420
tcaaacgtga	cctgtgtggc	gcttgatgaa	gaggcgccga	cggcgccctc	agagtga	477

<210> 5296

<211> 528

<212> DNA

<213> Enterobacter cloacae

<400> 5296

aatcaaaaaa	aatggagcct	acccatgaac	agcattttct	tcacggtcac	aacgttacta	60
ttactgaccg	ctggcgtgct	tttattgatg	caagagttca	ataaaacgaa	agtgtcaaaa	120
gacgtcagtg	aaccgccgca	gcctgaattg	atgtcgaaag	aggaggggga	agatcatttc	180
tccgtattga	tgaacgccgt	gacgccggtc	tggtagctggc	gagtaaatca	cgaatatatc	240
gatttcctcc	atgcgacaat	taagcgaatg	aaaatggccg	aaattaatga	tacgcccggc	300
ctgttcgacg	cgcagcgccg	ctgtagcgac	cttaattcgg	cgtctataa	atattacgac	360
aatatcaaaa	agcgctgtct	gaatggcgag	aaggtgtcgt	actccgattt	agatgtatta	420
aatctgcgcc	agtgttttcg	tgagtttagc	ctggaagcct	acccggaact	ggtcgcgctg	480
gtctggccgg	agtatgcgcg	tccggatgta	gatcccaacg	aggtatag		528

<210> 5297

<211> 261

<212> DNA

<213> Enterobacter cloacae

<400> 5297

cgtctccggc	atcaggatcc	agcacagtgc	ccgcggctcg	aaaaagatat	cccagtggcg	60
aagctgaagc	ttccagctta	tgtcgatata	ctctgtgata	atatacgggc	tccagtaccc	120
gacatccgcc	agcgctgtc	ggcgaaaggc	ggcgatgacg	ccggagacgg	taaagacccg	180
gccatagata	cgtcgcgttc	gcttgatgag	gccataatg	gaagaaaact	cgcccacctg	240
aatacgacca	atcagcgttg	a				261

<210> 5298

<211> 591

<212> DNA

<213> Enterobacter cloacae

<400> 5298

aagggatggg	tagtggcgac	ttcaatagtg	ttagtgactc	aggattgttt	ccttgtcagg	60
gggatgcggc	tatttttccc	ggatataatt	tgcctcagtt	cgatagacag	aaacatattt	120
gataccgacg	caaatgaata	tactgtactg	attgatagcc	gtacgccgct	ccgtttatat	180
gattacctga	tacgccatcc	ggccagaacg	agaaaaacga	tctgctgcgt	tatgctggat	240
atgcgtccct	gagaggagga	tcttctcagt	atgaagctgt	ttatgaacac	gtcgcttacg	300
gctccggata	tggcgtcgtt	attcaatctg	gtgcttgata	tgaaaggcag	gcgtctgaca	360
accaaattgg	tgccttaact	acggctgagt	cgacacgaag	cgataatgat	ccggttgctg	420
aaggcaggga	ggtcaatgga	agagattgca	gataagctga	atatgtcggg	taaaagcctc	480
tatcgcaagc	gaacggtgct	gtcggagcgg	ttagggggcag	ggaacttcaa	cgaggcgtgt	540
ttgtttatct	ttaaaaacaa	actgctggac	gcggttggga	acgatcccta	g	591

<210> 5299

<211> 213

<212> DNA

<213> Enterobacter cloacae

<400> 5299

agccatcacg	cttctgcatg	gcaagcagga	accgtcggaa	tgagggtttt	ccagagctta	60
caaaatgatg	gtatctctgc	tccggcgag	atccgtttgc	taaacaacac	ctttcttcgg	120
ctggatttta	gcttttagtg	tgtgcccttt	gtgggtattc	ctttcgccat	ctggatttat	180
atgcttgggg	acgacctcgg	cccaacgatt	atc			213

<210> 5300

<211> 333

<212> DNA

<213> Enterobacter cloacae

<400> 5300

aagcggattt	ttgatgtgac	attgccgggg	aatgtgcggc	ctgatgccct	caccccaacc	60
ctctccctca	aggagagagg	ggcgtctgt	gcaggcatta	ttttgtgggg	atccctcagc	120

tcacagggag	agggcgcaaa	cactaaaaac	ggtaacgggt	gttacggtt	tgcattacc	180
atgggtctta	acacttccgc	caccgcgact	gccccggat	ccatcacccc	gtccagattc	240
tctttattca	catacgacga	gcgtcccgcg	ccggttttcg	ccatttttgc	cgttgcttcg	300
gcgcctgct	gcgcggcctg	cgctgccgcc	tga			333

<210> 5301

<211> 363

<212> DNA

<213> Enterobacter cloacae

<400> 5301

gcaggccgct	catccagaaa	gcttccagcg	gatttccaac	ttatcgggaa	ttggtacaca	60
gggtcaaatg	caatcttatt	tatacaaaaa	tgtgctaaag	agtgtttatc	tagttgtttt	120
tattgtgtat	ttaactattt	ttacaaccgc	ttaaagcacc	gggcaggtgc	aggggagtgt	180
gatctgactc	actatacgaa	agcgggtatta	tcgatgcagc	gtgctgaaat	gcagatttat	240
agcagaatat	taatctgggt	ttgcattcaa	tgccgcataa	aatcactgtt	tttcagtcct	300
ggcgtataaa	atgaaaaaaa	ccatcagaac	ataaggaaaa	gtaattacgt	tcagggtgaa	360
tga						363

<210> 5302

<211> 264

<212> DNA

<213> Enterobacter cloacae

<400> 5302

cgtttcatat	gcggacctcg	cattcgccct	ctttttcatc	cttttgcgca	ggtaaacaag	60
tttgaggact	tgtttcagag	ggaatctcaa	ttactgcata	aatatgatga	gcaggccgct	120
catccagaaa	gcttccagcg	gatttccaac	ttatcgggaa	ttggtacaca	ggtcaaatgg	180
caatcttatt	tatacaaaaa	tgtgctaaag	agtgtttatc	tagttgtttt	tattgtgtat	240
ttaactattt	ttacaaccgc	ttaa				264

<210> 5303

<211> 339

<212> DNA

<213> Enterobacter cloacae

<400> 5303

aaacagtatg	gcgtaggtaa	aaccacaggt	ggtgtgaata	ttggtaaacta	tatgcttttc	60
atcaaaaata	agaaagtcac	cattgatggg	caagagggcg	acgaaatttt	ttcaaacgtc	120
gactggaatg	gctctaaatg	ggaatcaggc	ggtgcgggtc	gcagcgacgg	tatctccatt	180
atcagtgccg	caaccacagg	cacaacgacc	cctgttgcat	ttaccactgc	ggttttccca	240
ctggttacct	ctctggctat	tcaggggacc	gatacgctgg	cgattactga	cgatacatct	300
ttagatggtc	aggcaacaat	tacctgaaa	tacctttaa			339

<210> 5304

<211> 669

<212> DNA

<213> Enterobacter cloacae

<400> 5304

ctcttcagac	ggctgcatta	ttgtctcttt	gagtgcgaga	agaagcatct	ggaaaagcaa	60
cgatacgggt	ttgattgtca	aatgaagcgt	ttaatttggt	cattgccatt	actcgttgca	120
gtcagttcgc	acgtctcagc	atctgaaatg	accggcttcg	caacacagta	ttacgatgaa	180
gacggctcgc	tgacggaaat	ttcaaccata	gtgccccttt	ccccgacct	cacgatcggc	240
aagaaaacgg	ttcagatgga	agttactcat	ctgtctcaga	ttttcagtac	atacgtggag	300
aaagacagct	ccgcgcactg	gatctgcctt	catgacgacg	atggcaccaa	ttattgggtc	360
atttcagata	acgaaatggg	tgacgggctg	ttaactgcgc	tagccatatc	cagggatggc	420
atccataaag	agtgtgtgaa	tacaacggaa	cgagtcagtg	tctcagtcct	tggcgttcca	480
ttgttaaagt	ccactcacgg	ggatttagtt	gaattgttcg	gcaaaaaaac	aatcggaac	540
agaaaaaaga	tcctgcttta	tcaggagaca	cctgtacagg	atggatttgt	tcagaacaat	600
acogtctctt	attactttga	tggcgaaaaa	ttgcgcggcg	taattatcgg	gcaataaacc	660

agtaactag

<210> 5305

<211> 345

<212> DNA

<213> Enterobacter cloacae

<400> 5305

cgcgaggca	gcatgacata	tgaggaatta	ataaattcgc	cagccggtga	gtttgtcatg	60
tttgccagca	aggatggaaa	agttcgcatt	gaatgccgct	tcgaaagcga	tacgttggtg	120
ctctcacagg	ccacgatctg	tgagttatac	ggcaaagcca	aagctacgat	cagcgggcat	180
atcaagaata	tttttgatga	gggtgaactg	gtcgaaaatt	cagttgttcg	gttttaccga	240
acaactgcc	gcgatggtaa	agtatacaac	gttcaatatt	ttagcctgcc	cgttattctc	300
accatcggt	atcgctcggt	tattaaaatg	ggaaaagcag	gctaa		345

<210> 5306

<211> 924

<212> DNA

<213> Enterobacter cloacae

<400> 5306

tttccgtcgg	tatatacctt	cggcgaatto	tgcgctcgcg	acagattatc	caattttattg	60
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atggatattg	tacttttccc	tggtcagaac	gcccgcgcgt	gggctgaaac	aatgataaat	180
cttgaagccc	gcaagctcat	caatactgcg	aatattgtcg	gagggcaaca	tctcagcgac	240
ggactcgcac	ggattaaatt	tatggatgat	attcggcagt	ttgtgatgca	acaatttagt	300
gctacccggg	cagccagaag	tgatgaggag	tgcatggaat	gcctgaaaaa	catccgggct	360
gagaacgaaa	gtcttcttga	gcaaagcaga	atgcttcgct	cccgtacagc	tcagcttttt	420
gctcagattg	aactggttaa	agaaaataac	aaagtctgct	gttacgttat	ctcatcgatt	480
aaggttggtg	tttcagggtt	acagattggt	gcaggtggtg	gtgcaatgat	gacaatgaat	540
ccagtgggtg	cgcttgaggg	agcgattctg	gttatggatg	gtgcaaatgc	catttcaaaa	600
gaaattaaca	gaacgcttca	acatcaacca	aactccgaag	gtatgctggc	agatggcgct	660
atggatatcg	ctcagtttat	gggattttaa	cgtgaatcag	cacttggggg	attcaatagc	720
gtaagcctgg	cagcaagcgt	ctatacggta	tttggcgcga	tccggaaaac	cgaatcatgg	780
cgtctgtttc	gttatctccc	gctggatttc	taccgcaaag	tcgacggaat	gaatcgcgca	840
gcgctcacta	tgaaaattgt	cggtcggggt	gtctctgcaa	aagtctcggt	tgatttaatt	900
tctaattgct	ctggacagaa	ctaa				924

<210> 5307

<211> 885

<212> DNA

<213> Enterobacter cloacae

<400> 5307

tcttccgcc	aaaatacagc	taaatctact	ttcagagtta	ataacatgta	taaatatctt	60
ccctcagaaa	gaatcgatat	acttgaaaat	aacttaatat	gttttaataa	ccctttaaat	120
tttaacgacc	catttgaatt	caatacttct	tttaacttta	gtagctttga	atccaattta	180
tacgattcgt	taagcactgt	agaccttctt	aaagaatttc	cagctgaatt	attaaatcag	240
attgaaaaac	tgcttaaaga	aattgtcagc	aatatactta	aagatgcaaa	aaaagcaatg	300
ctctcaatgt	ataaaaaaga	aaaagaaaat	ataataagag	cagcagatac	tacaatgcaa	360
agttttaact	caaagttgat	aggaataacg	agaattctat	cattaacaga	aacctctacg	420
aatattttga	tgtggggaca	ctacgcacag	gcccacagtg	ggtttattat	tgagtttgat	480
atcaatcatc	catttttctc	acaacgtcgc	ggccaaaaag	gtgaatttgg	ttatttacga	540
aaagtcatat	atcagaaaga	atatccattc	ttggatccat	tctcaggcga	tcaaataaat	600
catttccctaa	taaaaagcaa	agactgggaa	tatgaacatg	aatggcgaat	gttggtacca	660
caggccaatt	ctggtaaaac	aattaatgta	tgtgaaaaag	agtttgatct	ctatgaacta	720
ccatccgatg	ctatcaaaaac	aataattttt	ggttgcaata	cctcagaaca	ttttaaaact	780
aaaatgttca	ggttaataag	ttcacgaacc	gactatgaac	atatcagttt	tatacagggt	840
aaaaaatcaa	attcaagatt	tgagattgta	ttagaccggt	tataa		885

<210> 5308

<211> 189
 <212> DNA
 <213> Enterobacter cloacae

<400> 5308
 cttaccattc aaaatgggaa tgctgaagaa ctttgcctgc ttaaaaagaa agttatcggt 60
 gcgagatata tgtggtatga attgatatta aaaaagtata aagttgattt atgggtgttc 120
 ttccatttta agaacaataa tgacataaaa aatgtatcaa gtatcaaaat ggtgaatata 180
 gttaaataa 189

<210> 5309
 <211> 753
 <212> DNA
 <213> Enterobacter cloacae

<400> 5309
 gcaatgatgc ttttgccgcg tctctatgcg cgactctgcg cgcgccaggc cgggcgcacg 60
 ctgctggcaa accggatcac gcaaaactac agccagttta tgcgctgccc ggaggccgat 120
 gttccggctg attttctgca tcagaatgcg catgagctga gcgggtttta cttcgtggag 180
 cagatcttcc cgcccgcgct ttgggcgcgc aacgttcggt ttgatctgca cgggtacgtg 240
 gcgcagtggg cgcgggagca ggcattttac agttcatctc gcaccctgct actgggcatg 300
 cgctgggcgg gctttggtct gatcgtggat gcgctgctcg ccaccgcgcc agccgatgtg 360
 cgctttcagt ttattaccgg tcaccctgcg ctgcataagc tgatggccgc gcacgaaggc 420
 cgacgcgcca gctcgttttt cgcccctcac cgcttgggta cggtgctgct gatggacgaa 480
 cgctgcccgg atgcgcgcgt gttctccacc caggcagggg atcaaaaaggc gtggttaacg 540
 gacgtctcaa cgcggttttt atcgcgctat ggctacagcg tccgaacgct gctgccgata 600
 tgctcgtctg acgcggcgga gtttgggctg gagagtcagg cgtatgcgcc ggaggattac 660
 cgtcaggccg ccgcgcgacac gctgaacgcg ctgcgcacaaa cccccacgct ctggagtgcg 720
 tgggatgata tttcagtgat ttatcatgga tga 753

<210> 5310
 <211> 363
 <212> DNA
 <213> Enterobacter cloacae

<400> 5310
 tccacgttac tttccagaag aaaaggtagt ggcattgaaca atattgaaac gcagttactt 60
 gaatcagggt tcaccgtaaa agaattagcg tatctgaacc gaaacattag ccgttatggt 120
 tcattccctg tcgaggtagt gcttgagtta ggtaagcgat ttatcatggt tctgtgtatt 180
 actgcgactg tggccctgat tttcctggcg cttctttttt tcgctgaaca ttataatatt 240
 gtttccgggt gcattttctt tttcatcgta ttgattattg cctgggtttt tcaacccccg 300
 atcattacct acaaagcctg gcgcttcaga aagaaatata ttagttctgt ccagacgcat 360
 tag 363

<210> 5311
 <211> 207
 <212> DNA
 <213> Enterobacter cloacae

<400> 5311
 agatatcttg ctcttgtagg tacgtacatg tcaacagcta aacgcgaccc taatcagtea 60
 aaatccggaa aagcaccaac ttttcagatt cgtattacgc cggagttgaa gggcagttt 120
 gaggtgcgg cgaaggctga agggatgagt ttgggggaatt gggttaaaaaa ttaggttcga 180
 aatgaattaa atagattaaa aaagtag 207

<210> 5312
 <211> 192
 <212> DNA
 <213> Enterobacter cloacae

<400> 5312

atcagcaatg	acgcgtgtcg	cttgagggtta	aaaaatgcgt	ttagtcgggt	acactatcgg	60
aaatacgaga	tgagaatgac	gaatgaaaaa	gaaaacatcg	ctcagcgagg	aggatcagge	120
tctcttcgcg	cagctgatga	cggggacgcg	tcaaatacag	cacgacacca	ttgtccatcg	180
cccgcagcgt	aa					192

<210> 5313

<211> 243

<212> DNA

<213> Enterobacter cloacae

<400> 5313

tcagacgctc	cagtacgggtg	cgttgctgcg	tggagagcgg	ttgttcgcct	ggcgtgttgg	60
gcggttacggg	gccttcaccc	ggaggggcgcg	gaggcgtacc	tgaatatgggc	tgcatacgtca	120
aaaatcctta	aagtcaaact	ctgcgtaacc	gggcggagat	atatgcccgg	cggcgagatt	180
atggcacact	tggtagggtt	acttcctctc	aaacaggtac	tcagacgtga	aaatcctcgt	240
tga						243

<210> 5314

<211> 222

<212> DNA

<213> Enterobacter cloacae

<400> 5314

gacgttgaat	tccaccggcc	gtcactatct	cttcagggcg	tttcatacat	gcagatcggg	60
ctacgcaacg	tgtaccacag	cggctatgta	ttcagtgccg	actttttctc	ttacaacacg	120
gggcagaaag	cgccctcgtc	gaagaacttt	ccacacgcct	tggtctggcg	ctggggatgg	180
acagcgttga	gagctccatc	togtcaaatg	ccattgtact	ga		222

<210> 5315

<211> 354

<212> DNA

<213> Enterobacter cloacae

<400> 5315

ggtttccgca	aaggtgcgcc	gttaactatc	cataagataa	attttccggg	gcggctggcg	60
acgtcgtcag	gcgccccctt	aacgctggaa	agtcttatgg	ccccttcacc	ccgaagccgc	120
tcggctgaac	gtctgggtga	catcattatt	gcccgcacc	gcaacggaag	cgttaatcgc	180
cgcgatctga	tgcaaaaatt	tggcattacc	gaacgcacgg	tgtaccgcga	tttgcaggcg	240
ctttccccga	ttattgaaca	cgacggcaaa	gggcgctatc	agctgctgcc	tgcgtatcag	300
acctgccgct	gcgtgcactg	ccctgaagcg	aacgacgaaa	ccccgcaggg	gtag	354

<210> 5316

<211> 198

<212> DNA

<213> Enterobacter cloacae

<400> 5316

cgatacccca	cgcgctgggc	tgtgcagcgc	agtgtgatac	cgacaccatg	ctggcgctca	60
agcaccagct	cgaacttttg	cgccaacagc	ttcatcgcgc	gtaaggctat	actttacgcg	120
cctgatttta	acttaataca	tcgcgcgcta	tttaatatgtg	catataaacg	taagatgagg	180
aacctgccat	gtcttttag					198

<210> 5317

<211> 204

<212> DNA

<213> Enterobacter cloacae

<400> 5317

agtatagcct	tacgcgcgat	gaagctgttg	gcgcaaaagt	tcgagctggg	gcttgagcgc	60
cagcatgggtg	tcggtatcac	actgcgctgc	acagcccacg	gcgtggggta	tcgtcacggc	120
ctgctgttgc	agcgcgccgac	ccgcgtcgc	cagggtgacg	gcgacctgac	gctcatcctg	180

acgggaacgc tggcggaaga ttaa

<210> 5318

<211> 1626

<212> DNA

<213> Enterobacter cloacae

<400> 5318

tgccgcttta	gcggtactca	ttgtctctca	aggaaaacaa	tgatgattag	ctcatcgcat	60
catacccgcg	aacagtttga	acactgtctg	gcggcgatcc	gtcaggcgtc	tggtgaaatt	120
ttactttctgt	tgaatgtaca	tgtttctgaa	ggaaaagatc	cacgctgggt	tctggagcaa	180
ctggatagcg	cccgctggg	gctgggcggg	tggggcgctg	tagccaggaa	gctgaacctg	240
aatgatgcgg	aaatgacggc	ctttacgctg	caattacgct	tgcttcagca	gcgtgttccc	300
cagtatgaaa	gcgggcagga	tgtcagcgaa	aatcagctga	ttgcggcgat	gcgcttcgtc	360
acctcccttg	aatatctgcg	tctgcaacag	cccctcctga	cctacgaaac	cgggaggggtg	420
ccagagaagg	agagccagct	tcaggcgag	aaacagggtgc	gtgccattga	gctgatgatt	480
aaagggctga	tacagcaggc	gtggcccagc	ccggtgcggc	tgaataatca	tcttaagacg	540
ttgtttaacg	ctgaacgcgt	gcgtcgctgg	ctgaaaaacg	gtgaaattaa	tgatgttctg	600
agcggcatgt	tgttcagcga	actggcccag	ctgctggtag	ataaaaaaga	atttagccgc	660
tactacgcgc	cgctgtttta	cgccccggac	atgctgacac	tgctggtaga	gccccgcaaa	720
accctgcaaa	ccttcctcga	agatatcga	caaatccgca	acagcatcac	cgtgcagcag	780
ccgttaagcg	gagcgcaaat	ccagctgctc	gactgctatt	acacgcagat	cacccgctcc	840
gttcagcgcg	cgtttgagga	aggcgggaca	cgcgtaacc	cggcggcgct	gatggcggtg	900
gacgaaagcg	agctgcacgc	gttctgggaa	aaggcgcaaa	aaatggaccg	caccacaggc	960
ggcgatcttt	ttgaagtgcg	cgacagtata	gaaaaaccga	ctcagcggtg	cacgcgtacg	1020
ccagagcagc	gcgaacagct	gatttccggc	gtgctgtggg	gagcgggttg	cgtgatggtt	1080
atcgcgattg	togtgggggg	attctggctg	gtgaacagca	gtaaaccgca	gccggctgtg	1140
gccagtaagg	catctcccgc	accggtgcag	gagatgcgcg	aaacgccttc	ctcgcgagaa	1200
acgctgacgc	ggatgggtgt	cacctgggat	gaaaacaact	tccgttcagc	gattagccgc	1260
aacgataccc	gggtggcgct	cctgtttttg	cagggcgggg	tggactggaa	aatgtcatgg	1320
acggaggagg	cgttgtcggc	aggctacgac	gatgtgctgg	aagtaatgtt	gcgctaccgc	1380
ctgcaaatga	cagagcaaaa	gccctgcgca	cgctttatta	atacgcttag	ccatgcgatg	1440
gcgaacgggg	aatcgctgac	gcctatgcgt	aagcagtacc	tgaagcatt	ctgtaccgtc	1500
cctgcgggtg	tgaaacgcca	gcagcacgac	gccgatatgg	caacgcgcgc	cgcaagacg	1560
cagcccgatg	ccagcacaaa	aaaatggcag	tccatccaga	ctgccattta	tgaggtgatt	1620
cgtaa						1626

<210> 5319

<211> 429

<212> DNA

<213> Enterobacter cloacae

<220>

<221> unsure

<222> (34)

<220>

<221> unsure

<222> (282)

<400> 5319

cattgcgtag	attatatata	tgtaagattt	gacnaaaata	gcattttttca	aaaacattac	60
ctacttaaga	aaagagatgt	atttaaaggg	aaagctcatc	ttgatacaga	agtaatggct	120
gattgggtag	atactcaaaa	agaaattaat	ttatttactc	tgatttcgct	cagcaatata	180
aataatacag	atgaatttaa	caggaaaggt	aacgaaagat	taaatgaaat	atacgaatct	240
cgccgggtac	atggtaaaaga	tattaaaaag	aacaggaaaa	tngaacttga	ttcattagga	300
cgaactcatg	ttgctaattg	aagatctgaa	cccatacttc	cttcatccag	taatgttctg	360
cttttgcttg	gccggggagga	gaaacaaaaga	tggttaaaaag	gtaagaagaa	gactgaggac	420
gcagaataa						429

<210> 5320

<211> 333

<212> DNA

<213> Enterobacter cloacae

<400> 5320

aaagcgctac	gcgttcgcct	gttactacgg	aaaaagatta	gagatatgaa	aatgcacgta	60
aagatcaccg	caaaactgat	ggccaaaatg	caccttgttc	tcgcgctggg	atgggcgata	120
ctgactattc	ctaccctgct	gtggtggaaa	aacagcattc	tgtgggtgtc	gttaatgagc	180
atttacgcca	tcgtgatttc	ccatctggct	gcgtacagcg	ccgcccattg	agaaaaagcg	240
gccagcaagg	cgatggataa	aagcgaaggc	gccagccaga	aagccaatca	aaccgccaac	300
agccttcaag	gcaatgcgcg	tcaggcacat	taa			333

<210> 5321

<211> 243

<212> DNA

<213> Enterobacter cloacae

<400> 5321

atgatttgc	atttgttggg	taagccggag	aggaaagagt	gggaattgtt	cccggatatc	60
aatcaccgag	tcattaaact	cagccagata	gaaaaagtta	ctttcgacag	aagaaaggag	120
atgatggttt	cgaaacgtct	taaggccaaa	gactatcgaa	cggtttccac	gggatttaac	180
gtcctgagct	ctaagccagg	gctgataact	ttggccatag	cccactccta	tgccgtcacc	240
tag						243

<210> 5322

<211> 204

<212> DNA

<213> Enterobacter cloacae

<400> 5322

ggcgccatac	catcctggat	ctggcacgga	agatgtatcg	aaaagcgcct	gacacgttcc	60
agatcgaagt	tcaggagtgg	atttcgcgac	gcggttcgtc	cacgtgaaaa	gccgggcagg	120
gaaaaccgct	accggccgcg	cgcggttaag	aacgtaaaat	aatcaccata	cggccacgga	180
tctggccctg	ttccatctct	ttaa				204

<210> 5323

<211> 312

<212> DNA

<213> Enterobacter cloacae

<400> 5323

tgcaatat	gtttaacagg	tgatcaacat	ttgtgcagcg	tagttcactt	ttggtgcagt	60
gtgcaggctg	aagggtatct	atttggtgaa	tacgtcagcc	tcttcacatt	ttttggtaag	120
atgaaagctc	tggggaaaaa	agaggagcc	ttacatggcg	aatttgcctt	ggcgggtcag	180
cgtgcgcctg	atggctctcg	caaaaaaat	agcgatggtc	atcgggatca	ttgtgctcgt	240
tctgctttcg	gtgcgggttt	atctttcgca	gcaggggcca	gccttgcata	actggcacac	300
ctggcgggct	ga					312

<210> 5324

<211> 336

<212> DNA

<213> Enterobacter cloacae

<400> 5324

atttgcgtt	ttttcataag	gcatgggcgt	cggccaggag	atcaattcca	caatactgcc	60
ccagggggtc	tgtccatagc	agaaagcatt	cccttcacct	tgctcatccg	gaaacgtgag	120
cggttttggc	gcggtaaaca	tctccccgcc	ggcagcgggtg	aaagcggcta	tcgccttata	180
aaaatcatca	acataaacag	caaatgctg	gaggccaaag	tcgctggcgc	gggcgggcat	240
tccctgttca	gggccatgca	tttcgaaaag	ttcaatgccg	ggtccatggg	gcataacaag	300
catgcgaatg	gcgtgaattt	ttgtgccggg	aaataa			336

<213> Enterobacter cloacae

caggagttta	ctatgccatc	gtcagtaagg	ggcctcgacc	atatcggtat	tacggtgccc	60
gacattgaaa	aagccaccct	attttttgaa	cgcgctttcg	gcgcacaggt	tttatatcat	120
tctgtcgatg	cggaaaccca	taatatgat	caggccgcc	agcagcacac	cttaaaatta	180
tttcccggca	caaaaattca	cgccattcgc	atgcttggtta	tgccccatgg	acccggcatt	240
gaactttttc	aaatgcattg	ccttgaacag	ggaatgcccg	cccgcgccag	cgactttggc	300
ctccagcatt	ttgtctgtta	tgttgatgat	tttgataaag	cgatagccgc	tttaccgcct	360
cgccggcggg	agatgtttac	cgcgccaaag	ccgctcacgt	ttccgtagta	gcaaggtgaa	420
gggaatgctt	tctgctatgg	acagaccccc	tggggcagta	ttgtggaatt	gatctcctgg	480
ccgacgcccc	tgctttatga	aaaaacgaca	aatttacgcc	gctggaaacc	ctga	534

<213> Enterobacter cloacae

ggtgtgcagt	ttctcactgg	taataaacat	cgaacagtc	acgtcccag	taggcgttac	60
cagttttctgc	cgaacgagt	gaaaggcggc	cgggaaagcg	ttcgggtcag	tactcacatt	120
cctgaaaata	ttgatgtaca	gcaggtaaca	ttcgcgtcagt	gtcatacccc	gggtgaggag	180
tacactcacc	actccgtttg	tcagtga				207

<213> Enterobacter cloacae

cggtatgtac	catatcagat	gtatcctgag	aaacatcata	tattaacaat	agcatatatt	60
gcgtttgtat	caacgcttat	attcatattg	agaacatggt	cgcaattagt	taattatctc	120
gaagtaacgg	aaatatgtca	gataattatat	tgtgattatt	attgtgtggg	tattaatgat	180
gttgttaccg	atttaacaa	aaaaagactg	agggaccgtt	atccgaaaa	tgttgtatcg	240
caggaggat	aa					252

<213> Enterobacter cloacae

gatttcggag	aaaaaaagat	gcgttatacc	ogaaccagca	ctgcaactga	tgtcaactgat	60
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ctgatatagc	ggctactgag	tcgtgagaat	gaaatgcagt	cggctctggca	gaatattgcc	180
cgtcaggcgc	taacctggca	gcaatgctat	tgtcttcttg	agcaaatcat	actggcgggc	240
cgtttcagta	gacctgatat	cgttttccga	ttgaaagagc	attatcgcca	gcttgaagaa	300
ctgaaccgga	ctatcagtaa	ggaggccggt	gaactggcag	agaagatat	ggtccgagat	360
gcgactctga	accggaacgc	attcacactt	gagagaacca	cgcacatcgt	ggaactgatg	420
gagatggctg	aagataatga	tgggctttac	cgttattatc	ttcatgaaac	actcgatggc	480
ctgacctgtc	gttatgacgg	aaaatactgg	ccgggactcc	ctggcgctcct	gcagggttata	540
gcaagggagc	acccggaat	tgatgtctc	tcagaaagcg	atcgggccat	cattaacggg	600
cgcggcaaaa	tgctccccga	ttatctccgc	gaattattca	gtagcatcga	gaacgtcagg	660
cagggtccat	ggggtctgcc	gaaagaattt	acgttgacgg	acagtagcct	ggctacgctg	720
gccactgtaa	cactggatca	tactgaagtg	ttctccgctg	atacggtaaa	agtacgccgg	780
agtgaattca	gcaaaagagg	agagcgggga	gcatggccat	ttaagccact	gaaggcagtc	840
qatatgtag						849

<210> 5329
 <211> 1740
 <212> DNA
 <213> Enterobacter cloacae

<400> 5329
 gtggatcact ttttaccgct tgttgacagc aatccactca gcaccatccg cgaactgcta 60
 tttcttttacg aaatggaaga tcgtttcagt gccgataaaa aaagactccg ggtggccact 120
 gaactgctcg agttactcga gaccgatcaa gttctcagga gagaagcatt tgaggacatc 180
 cccgctcaac tgggtgactct tctggacaga gatttctgtg ttgaccccac tcgcagcccg 240
 gtggaaaagc gtcctcgtct tatctgtagc ctatgtgtac aactggcgga tatcaccgag 300
 gccagttata tcaactgaggc tcttgagatg cttgaacagg aactgtttgc atggcccctt 360
 ctggatgaac accatgcacg ggatatttac tcaactgacaa acggagtgat gagtgtactc 420
 ctaccccggt gtatgacact gacggaatgt tacctgctgt acatcaatat tttcaggaat 480
 gtgagtactg aaccgaacgc tttccggggc gcccttccact cgttccggca gaaactggta 540
 acgcctactc gggacgtgac tgttcggatg tttattacca gtgagaaact gcacacccta 600
 cttaacacgc aaggaccac actgcagttc aacggatgtg tgttcatgcc acttgatgaa 660
 gcccgacaac gcttctccct ctcatcgat ataccggttt gctcaatgtc tgacacatct 720
 gcccgtaaca tggccgggtc gatgcttcgt gaatccctgg atgtcattgc ctacatggta 780
 ggtaagggag atatcaccgt ccagaaacag ttcattgataa tcagggatga agacgaaaca 840
 gaagtgcgcg gcttcgataa tgaaatcgag gcaaacgcgg accggttaac ggacgaggag 900
 tttgcgcgct ttatggtggc gatgaaccga ctgttcacgg atacaccgga tgtgtcccgt 960
 aaaaaaatca gctccgcatt tcggtttttc cgtaacggca ttgaaagcca agttcaggag 1020
 agtcgtttca ccgcttactg gtcggcgctt gaatcattaa cgctaggagt tgcccctggc 1080
 acaccatcac atgaacagca tgtcatcggt gttgtggtct cctgtatggt gctggactat 1140
 gttgttaagc aactgttttc tctaagaaaa gttctgcgct tcattctgcg agagccaggg 1200
 caccctttgc gcacaccgga gatcgcttca cttccgctgg ggcaactcta tgcccttctt 1260
 aaagatgcgg accgggtccg tgaacttcag acagatttac agcactttcc ctatgtcatg 1320
 tatcggtgac gtaagcttgc cgggatctgt gcgtcaccgc agaaaatggc ggataaactg 1380
 gggcaacatg ccgagaaagt caccgcacat cttcaccgcc tgtatctgct gaaaaatacc 1440
 atcgtgcaca atgcaggtac cagcccgcac attgacctgc tgacggtgaa ccttgaacac 1500
 tatctgcggg caacaatcag cgcttggttt aatattgtgg tgatccaccc aaccgtcagc 1560
 accgctgagg aggcatttac ccggtgccag tttaccagtg agtcagtttt cagggaactg 1620
 aaccccttcc acgggatcac ggaaaagaaa gtatcacacg ccattgataa tcagttgaaa 1680
 aacgggacgc tttcccgtag cgatgctcgt ttgatagcat ggctcaatgc ccaccactga 1740

<210> 5330
 <211> 225
 <212> DNA
 <213> Enterobacter cloacae

<400> 5330
 gctcagcagg atttacttaa catcttaacg accattttct tcttttttat tccggactgg 60
 gaattcagta tgtaccccaa tgaatcagcg atctggatta tttatccgca aaaaaacatg 120
 tcatataaag taagggggtt tattgatttt attgatttta ttgattttat tgattttatt 180
 atcgatgaaa tcggaactac tccttactgg aagcacggaa agtaa 225

<210> 5331
 <211> 246
 <212> DNA
 <213> Enterobacter cloacae

<400> 5331
 accttactga tgccgctgaa acatcagcgg cattccttat ttaatcaccg gcgcccggcg 60
 aggcaatccg cttactgctg cataaaatcc ttttgtcatt attccttctt aactaatgg 120
 tcggcacatc ggttaacgcc attcaacgta accagcgtca gaagtaaagt tgattttacgt 180
 attacaggat taaactatgt caaagaaact ttttgggtgcc cccccaaccc tgacagacgc 240
 cagtaa 246

<210> 5332
 <211> 519

<212> DNA

<213> Enterobacter cloacae

<400> 5332

gaaacctgtt	gtaccagggc	acagcaaaaa	caccaaattct	tatccagtgt	taaacatcac	60
tgttatgcag	gtggttaagga	gaacctgatg	aaactattta	cgattggttt	cacacaattct	120
tcggcgagg	atTTTTTTac	gcgtctgaag	gaatccggag	caagacgtat	tctggatgtg	180
cgtctcaata	atcgctctca	gctggcaggc	tttgcaaaac	aggacgatct	gaagttcttt	240
gcccgtactc	tgtgtgatat	cgattacgca	catatgccag	atcttgcccc	gacgcgggaa	300
atgtttgagc	gatacaaatt	acagaaagga	gactgggata	tatatcttc	ggatttcac	360
gatctgatta	caaaaagaca	tatcgaaacg	ctcgaaaaga	gtcagtttgc	tgatgcttgc	420
ttattgtgta	gcgaacataa	accacatcat	tgccacagac	ggctggttgc	tgagtacctg	480
gcagataaat	ggcctgatgt	cactatcatg	catttatag			519

<210> 5333

<211> 204

<212> DNA

<213> Enterobacter cloacae

<400> 5333

cgcgttctgt	gtgccgttct	gacctgggac	tgccgagcgg	tagatgcgac	cacggagatt	60
aaactgggtg	tgccctcgc	tgccaccccg	atcgacatag	ctatcgccgg	gcacgcaatt	120
gtccgctgtg	ccgtgctgg	gacgaataat	gcgtggag	ttgagaggat	atcgacctg	180
gtacctgagg	actgggttaa	ctag				204

<210> 5334

<211> 210

<212> DNA

<213> Enterobacter cloacae

<400> 5334

ataatgttca	atgtcgcccg	caattttccc	actgacagga	tcaatccatt	ttgcggattc	60
tataacatca	tcaaaaagtt	cgacctgat	ggcctgatgt	tcggaatcgg	cagggaatat	120
atcaataacg	tcaccgcgaa	cccggaacat	cgcccgctcc	agagttttgt	ctgtacgggc	180
atactgcaga	cgtgccagtt	gatgaattaa				210

<210> 5335

<211> 492

<212> DNA

<213> Enterobacter cloacae

<400> 5335

aggacattta	aattgaacag	aatgacagga	ctcgtgttt	tatgcctctc	gctgatggga	60
tgcaagtgcg	tgccatcaga	aaacagtgcg	cagtaacctca	gaacggaaat	gcagtcgcca	120
gtatcagggg	caaccataat	taccgtaact	gcggacagcc	ttatgaaaca	agacaatata	180
cataacgcta	tactgtatgc	acttcgaccg	atgcctggaa	aagcattcac	ctctgagctg	240
gacagaaaat	ttgccgcagc	gacgatgtat	attgatttgt	ctccgggtga	aaaaagcaga	300
acggccgaga	tcagtgggtga	gataaattac	tatgatcacg	agcgatacgt	gaatgctcgc	360
ctggtaggag	acagtatcag	gacaataccg	attgcaccaa	agaccatccc	gcttacactg	420
aataaaccat	tctcaatcaa	tctgccacaa	ggtattcact	attcagtcac	gctgacggac	480
agccagcctt	aa					492

<210> 5336

<211> 411

<212> DNA

<213> Enterobacter cloacae

<400> 5336

aggaaacaat	ccatgtccaa	tccagttatt	tcaggcaatg	gcattctctc	tcacgtcttt	60
atcgggtgctg	tagatgttca	aaagtcggct	gagttttatg	acgccacttt	aggtgcaactc	120
ggtatcaaca	accttggtcc	ttttggtaat	ggctgggtgt	tgtttgcccg	tgacaagccg	180

gctttcatca	ttgcccgtcc	tggcaatgg	gaagcgccat	ccagcaatgg	tgtgacaatt	240
ggctttgctg	ccgccacgcc	tgtgaaagt	gacgctttcc	atgccgcagg	cctggctgct	300
ggcgggactg	atgaaggcca	accgggtcct	cgtgggtcatc	tgccagggtgc	ttatgctgcc	360
tacctgcgtg	atccggctgg	taacaagatc	tgtcctata	ccttcatctg	a	411

<210> 5337

<211> 195

<212> DNA

<213> Enterobacter cloacae

<400> 5337

acgctgacta	ccgcaggcag	gactttttca	agcatcggcg	caaggctggg	aatggcttct	60
tgtccaggca	cctgcgaagg	cagtgcgcga	ctggcgggga	aggacgccga	gagagataac	120
ccgacactta	acgctaaggc	gctcaacagc	tggttttttt	tcttcatcga	tgtgactct	180
cgtatcctgg	aatga					195

<210> 5338

<211> 216

<212> DNA

<213> Enterobacter cloacae

<400> 5338

tgttatgaaa	gggagagatt	ttatcagatt	tcgttatcgg	aaaacatgcc	tgtcaacgc	60
cgcgcaata	accttaaaag	taaattaaat	gttatcaaaa	tgatgttgtt	ttgggtggcg	120
ggcagggtgt	attgtaaccc	cctcttaatt	cgttggtgcc	tacagcccga	tagtattcag	180
gtgaagggtga	aagacgtgcg	acctcaaatt	ctttag			216

<210> 5339

<211> 234

<212> DNA

<213> Enterobacter cloacae

<400> 5339

gtcgtccccc	cctacgcccc	tgtgaaaagc	atcaagatcc	aaccagcagc	cagcctcttc	60
ccgcagcaag	tgtgatgcg	ttgtctcatg	cagctgcgcg	tggctataac	ggctcaggga	120
gaaatggaac	tgtccctgca	actgatggga	gccaaaagtc	agctcgcggg	tgtcgacgcg	180
caaaccgttc	tccgtcgggga	agatatacgg	cgtctgcacg	tcttcacgcg	gtaa	234

<210> 5340

<211> 234

<212> DNA

<213> Enterobacter cloacae

<400> 5340

acttctgaag	aagagaaaat	gaaacaacaa	ctatcgactg	ccagtgacta	caacgaggcc	60
tgcaatctgt	tacgttccgg	ctacgtgaaa	catgttcgtc	ttggctggaa	tgtaggaagt	120
gatgagttct	ttcgaattgc	gtctgactgg	tgtgataccg	gtgcaaaaat	aaagaaagaa	180
ggggataatt	tcattatttc	gctgaaaggc	ttcccgattc	ctcctcaaca	ttaa	234

<210> 5341

<211> 285

<212> DNA

<213> Enterobacter cloacae

<400> 5341

attaaacacg	tgttccgaaa	ggatgtgaca	atcatggtta	ctgcggtttt	aaacgttaaa	60
attgatgaag	cgctaaaaga	aagacttcgc	cactatgcgg	aagacaataa	tgagaattta	120
agcgtgacca	cagagaaact	gctgctgctg	gcatttgaag	cagtagaaga	ggcgggagta	180
tcggaagagg	atgttgataa	tcagcatacg	gaagaagaga	gcgtaactcc	atttactcct	240
aaagaaatca	aagcactacg	taaacttctg	aagaagagaa	aatga		285

<210> 5342
 <211> 216
 <212> DNA
 <213> Enterobacter cloacae

<400> 5342
 acagttacga aacagttgat aaaggtcgct actggcggtg cgtttaagca tgtccacttc 60
 cagttgacga aacatatcca tagagccaag cgggctaata tgtgtaata agtgagctcc 120
 ttatgggacg attatcgtct ttcctgttg attacaatag ccctggctta tgacgtttca 180
 caacacttcg ggcggaatac cgcccgata ttgtga 216

<210> 5343
 <211> 261
 <212> DNA
 <213> Enterobacter cloacae

<400> 5343
 agtatcttcc accactttgg gcttatgccc caaaccacgt tccccacgcc cgtcaatggt 60
 gtgttccctgc acggtgagag aaccgggtcac tcttccatat acttttcccg tcaactataaa 120
 acggcttctg gccgtaccaa aaccaaacac aaatctctca ttctgattac cctacagggtg 180
 ctgtacagaa tgaaccaggc gaaagctatg ttccaggagt gcaacaatga gtacattaag 240
 ccacggggcg agcagcgctg a 261

<210> 5344
 <211> 243
 <212> DNA
 <213> Enterobacter cloacae

<400> 5344
 cgtttcaca cacttcgggc ggaataccgc ccgcatattg tgaaaatatt tatcttactg 60
 gcgcacaagt cgtccggtgg caggcacaac atcgggtatt gtgcgccacg ggttgatatt 120
 cagaccgcgc cgacgggtgt agcggggcgt aacgctcaac ttttcgggct ggcagaaacg 180
 ctggatgtcg ttgaagatgc gctccacgca ctgctcgtgg aattcgttgt gatgacggaa 240
 tga 243

<210> 5345
 <211> 183
 <212> DNA
 <213> Enterobacter cloacae

<400> 5345
 ggtaatcaga atgagagatt tgtgttttgt ttggttacgg ccagaagccg ttttatagtg 60
 acgggaaaag tatatgaagg agtgaccggt tctctcaccg tgcaggaaca caacattgac 120
 gggcgtgggg aacgtggttt ggggcataag cccaaagtgg tggaagatac ttcacggaat 180
 tga 183

<210> 5346
 <211> 234
 <212> DNA
 <213> Enterobacter cloacae

<400> 5346
 tccactttgc ttcactcctga agccttccctg cggcgctcatc ctgacgtgtc cctggtaaga 60
 aacgccatca tcttgatgtt cgtttctcgt gtcggcatcc tgcagacaca gatagaatcc 120
 gctattctgc ttcgtcttac aaccacatt gtgagcaatg taagccaggc gaaacggggg 180
 atttcccttc agaaaaccac taacttattg aaagagaagt taatattaat ctga 234

<210> 5347
 <211> 210
 <212> DNA
 <213> Enterobacter cloacae

<400> 5347
 tgcccgaag cagactcgcc caggaacgtt aacccttcaa cccatttcac acgcgcttgc 60
 atattcactc actccaacgt tgcatttttt atgacagatt acgtgtacgt tacattttctc 120
 gcaacggaag gcgacctgcg tcatgtctgaa gcgagacacc aggagacacg cggcgaaaagc 180
 tatgctaaaa cactctggat gctacagtaa 210

<210> 5348

<211> 243

<212> DNA

<213> Enterobacter cloacae

<400> 5348
 cagattacgt gtacgtttaca tttctcgcaa cggaaggcga cctgcgtcat gctgaagcga 60
 gacaccagga gacacgcggc gaaagctatg ctaaaacact ctggatgcta cagtaataca 120
 ttgacgttac acatgtatgc agaggacatc aaactttact ggctgcgaaa cgttacgaca 180
 gccgacttcc caggtatggg taagaattcg attgcaaccc cagagtcggg atgcatctta 240
 tga 243

<210> 5349

<211> 207

<212> DNA

<213> Enterobacter cloacae

<400> 5349
 cgaaagatgg ctgtacgtaa acgctttatc gcgggcgcaa aatgcccatc ctgccaggcg 60
 caagatacgc tggccatgtg gcggtgaaaat aatatcgata tcgttgaaatg tgtaaagtgc 120
 ggtcaccaga tgcgtgaggc cgacaaaaga gcccgcgatc atgttcgcaa agaagagcaa 180
 gtgatcggca tttttcatcc agactag 207

<210> 5350

<211> 264

<212> DNA

<213> Enterobacter cloacae

<400> 5350
 attttttttc aggatcgcat catttttttta gccacagaaa tactctttctc tattagcgct 60
 attctcgcca ttataaaaaa gaatctaacc gtaaaccttc ctgagttgag gccgataacc 120
 ccactattcg ttctacgtgt cgttacatta aggaataaat atggcaagta tttctacgtt 180
 gggagtgcga tcaggtttgc agttaggcga cattctggac agtctgaccg ctgcacaaaa 240
 agcacagctg acgccgatct ctaa 264

<210> 5351

<211> 222

<212> DNA

<213> Enterobacter cloacae

<400> 5351
 atgaaacagt cctcattaat aaacaccacg ccgggcttgt gggcgtcaca agcggctgcg 60
 agttcttcaa cgggtgtgtc atcgttgatg tctctctttc taacctctct gcttgctaag 120
 taccgggta accctagccg ggtgtatctg cataaatcca taatgatcgt tgacatggca 180
 taccctcact caatgcgtaa cgataattca ccacctgcct ga 222

<210> 5352

<211> 465

<212> DNA

<213> Enterobacter cloacae

<400> 5352
 ggaaaatggt caatgaaaac gttaatctct cttactgctc tcctcggact agcctctgct 60
 tctgcctttg cagccactgc accagagtgc gtaaaagctg ataatacagca gattgaagcg 120

ctcttcgata	aatggaatgc	atcgctccag	acaggcgcgatg	cccataaggt	ggcggataat	180
tacctgagcg	atgcggtatt	gctgccgaca	atatcaaacc	aggtcaggct	gacggataag	240
gaacgtgtgg	attacttcga	ggattttctg	aagaagaagc	cgttcggtaa	aattgacagc	300
gcgaccattc	gtctcggctg	taataaagcc	attgataccg	ggacatatac	gtttactttc	360
gcggataaaa	catccgtaac	cgcacgctat	acctttacct	acgcatggga	cggaaaagcg	420
tggaaaatct	catcgcacca	ctcttctgcg	atgccagaag	ggtaa		465

<210> 5353

<211> 795

<212> DNA

<213> Enterobacter cloacae

<400> 5353

aacgtcgggt	tgggaacatc	agccatactt	aatgcgcggg	ccaacgagac	ttaccagct	60
gatggtgtgc	taactgtagg	acagtttggg	ataggcgcgg	attggttgcc	cctgactact	120
gattttaaga	ctattgaaaa	aggtggcatt	tatgctggcg	gtggcgctac	aggagttaat	180
ttctttaacc	cgtacgcgcc	tgttctcgtc	atgtgcagat	atgccacctc	cgcaatgcaa	240
gctctacagg	ctgataaacac	tacccttgca	ttcaacgtga	aggatgcaaa	tggctggagg	300
ggttgggtta	agcttttatag	cgaatacaat	acaattcgcg	ccagcgacgg	aacgctcaag	360
gctgcacgcg	cggatgatcaa	agtattttca	gatggaacat	accagactaa	cgatgaatct	420
gagggctgca	ctgtaaccgc	tctggccaca	ggccaatatc	tgggtggaagg	gtgtcagggg	480
ctgaactcag	acgcagcatg	gggcggcatc	gatggagggt	ttgacatccc	taccgatcgc	540
aacaagcaac	cgtttatctg	gctggattat	gaggttaacg	ccgtttggtc	ggtactgggt	600
aaaacctatc	accgtaactca	ccctgatgcg	cctgcattcg	ccagaaacga	actggaaggc	660
gtgggtgacg	gtgacctgtg	cgacattccc	cgtgaccagt	ttgtgtcggg	acgtgtcgaa	720
atgccagcgg	attctttata	caaccaaaaa	atcagagcag	cagagctggc	catgactgct	780
gatgcgggtg	aataa					795

<210> 5354

<211> 186

<212> DNA

<213> Enterobacter cloacae

<400> 5354

tgcctggaag	actccagctc	ttttgctgcc	ccttattact	gggatgatcc	tcagctcatc	60
acccggggcc	agaagctcaa	actcttcgtg	tcgatatttg	cgacgatccc	ggaaaataac	120
aaaatccagc	cccttcgccc	gagcttctcg	cagataagca	tcaaagccat	caatgggtgt	180
agatag						186

<210> 5355

<211> 339

<212> DNA

<213> Enterobacter cloacae

<400> 5355

cctgatcaac	aacgcggacg	aagcgcggga	aaagtctcaa	cccccggggt	aaagtttctg	60
atgtcgcttg	cgctccggat	ggggcgacag	ctctcagagc	ttcggcacaa	tatgacggca	120
agcgagcttc	tgatgtggat	tgagtacaac	aggcaaagtc	cggttggcga	tattcgcggt	180
gacattcagg	ccgccagat	cgtctctgcc	atctacgggt	cgcagggggc	aaaagtaccg	240
ctggacgatg	cgatcctgcg	ctgggggtgt	gaggagcaat	cagaaccgaa	tgaccogttt	300
gcagggcttg	aggctgcact	tactgccgcg	acgcagtga			339

<210> 5356

<211> 351

<212> DNA

<213> Enterobacter cloacae

<400> 5356

tgtctggggaa	ccaaaatgga	aattttacta	gtttcaattg	ttataggctt	aattccagcc	60
ttaattgctc	aaagcaaagg	aagatctttc	tttgcattgg	gggtgtatgg	tgtctctgcta	120
tttataattg	cttttgtaca	ttcttttgga	ataaagaagg	atgttgccgc	agaagaaaaa	180

gacttaattg	aaaacgatgg	tatgaagaag	tgcccattct	gtgcagagtt	aatcaaaaagc	240
gaagctatta	aatgtaagca	ctgtggtagt	gatttagcag	tcgattcccc	accgggtaag	300
actgatgaag	aatacctcga	agaagccagg	caaaaggtct	ggaacaata	a	351

<210> 5357

<211> 222

<212> DNA

<213> Enterobacter cloacae

<400> 5357

ggtgggaaat	cttattgcgg	aagctgctgc	ctcactgtgg	tgaagagggt	gctcttcatt	60
gacgtcctgt	gcgacaccga	taagcaaccg	gtattcagcg	tagacgaaga	agagcagggtg	120
cgtgaaatct	acggccccgt	ccattcacgc	ctgctcaaac	aggcgcttga	cctgatcaac	180
aacgcggaag	aagcgcgggg	aaagtctcaa	ccccggcggt	aa		222

<210> 5358

<211> 447

<212> DNA

<213> Enterobacter cloacae

<400> 5358

caagaggatc	tactgaaagg	aatgatgaga	gatgtgtggg	ggcttaccgt	agttgaattt	60
attgctatca	agcggaatct	tgagaatat	tctgatacat	ggtcagatct	ctgggcaatg	120
ttgtatctga	gtcaggctaa	gcccgacag	cttcttgggg	caaagtgtga	tgatgtgagc	180
catgatattc	ttgttctttc	agccacaaaa	ggactgaggg	aaagatgcat	tgctcttaag	240
ccaggagtta	aaagaattct	ccactccgcg	agggagaagt	atcctgaaga	tgtgtttttg	300
tttcagagcc	attcacatcg	taccaagaca	actccaagac	cggtaacgtt	agttgcattt	360
aatgcggcac	tgaaaagggc	atctattgga	gtgaccgcaa	aaacagtga	tagtaaaagt	420
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<210> 5359

<211> 393

<212> DNA

<213> Enterobacter cloacae

<400> 5359

gggttcagat	cgggagaatc	acgggaacat	ggtaacggga	ggcctcttac	ggagcctctt	60
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gtaaacaact	atggcggtta	gcctgtcagc	gtttgtggct	atctccagct	ggcccagaac	180
cagaaaacag	gctcttacac	cgtagcgctt	ccaccgggtt	gcaggctgac	ctattttcag	240
agcatgaacg	gcgatcagtt	tggtagcagt	cggaggaaga	tcaccatttc	ggggggaaca	300
gcaacagtgt	cagcagcagg	tgataccgac	tactcagcag	ggactgagcc	tgcggcgggc	360
gcttatctca	ttttccagat	cgagagggca	taa			393

<210> 5360

<211> 672

<212> DNA

<213> Enterobacter cloacae

<400> 5360

atggcggagt	atggcgtttt	actgaacgac	acgagcgggg	aagtatgggt	gaccgctaac	60
agctcgccaa	tcgctctaca	ggcgcgaaag	acagcggcac	ttcagggaac	atcggggttt	120
aataccaaag	tgacgcacac	attccccgca	ggtcagcctg	ttgtcgcgtt	cgttcattgt	180
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agaccgaatg	caaccggcac	agcgtacgtt	tattttttct	ctattttccc	gcagacaaag	300
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cgcacgctga	gcgatgttgt	caccctcggt	accgcggggg	tggatgccag	ctcaggatac	420
aacatcaata	caactctggc	ggggaagtgg	gcctgtatgc	ctgccatgct	ggggctaatt	480
accgggggtg	tatccgcccg	cggtcagccg	caaccctact	cggccatata	caagagcatg	540
gcaaagcttg	agggaagcaa	tacgcggata	ttcgccaggc	cgcagacaac	ccccggcggc	600
aaccttcaga	acgttgcgta	ttcgaatctg	aggaacgtga	ttatggccat	taactgogcc	660

aactatgatt ga

672

<210> 5361

<211> 1347

<212> DNA

<213> Enterobacter cloacae

<400> 5361

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accgattttg	ccattcttct	gagtgcagct	ctgagcgtgg	atggtctggc	gcaggatatt	360
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agctggatcg	atgttcgcct	ggatatgccg	acggattcag	ttttcaaacg	ttcacagcag	1320
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<210> 5362

<211> 207

<212> DNA

<213> Enterobacter cloacae

<400> 5362

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ggactgcaag	tgatcttgaa	gccacgggcc	cgtcccaccc	cgacatggac	ctcgatgccc	180
gaacggacgt	tagatttcga	gttctag				207

<210> 5363

<211> 234

<212> DNA

<213> Enterobacter cloacae

<400> 5363

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atggcggcaa	gcctcgatca	gcgcggagct	gacaccccg	ccgcgatgtg	tccgtcgcac	120
cgcgagcttg	tgcatatg	cggcctcccc	cttgagggcg	tcgggccaga	actcgggac	180
ctcggccgac	aaggtgcaac	agccgacgat	gcgctcgtg	caactcgcga	ctag	234

<210> 5364

<211> 324

<212> DNA

<213> Enterobacter cloacae

<400> 5364

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------------	------------	------------	------------	------------	-------------	----

gcgaacggtg	ttcctggaca	ggccgcttcg	tccgggtatt	tcccgaaatcg	acgcaccatc	120
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<210> 5365

<211> 1161

<212> DNA

<213> Enterobacter cloacae

<400> 5365

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gaatttttgg	agaaaattaa	aatgcagcca	catgacacat	ttaccggctc	ataccagccc	120
ggtgacgtgg	aattttctgt	aaagccggta	gtcattgaga	tgacgcgggt	tgagcaaaaa	180
gaagagctga	ttcagtcagg	gaagaaacat	tattcggaca	tgctcagtca	ggagccagcg	240
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gcaaaagaag	tcacacagct	cgctattgct	ctggccgaac	gcttcggtga	tgagcccatt	360
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cgtgacatgg	ggaaaacctc	atggcattac	ggtatcagca	ttatccggga	tcgtggaatt	480
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catgtatttg	tgogttctat	tgacgacccg	gacgttgccct	tgcttgtagg	gcttgctcgt	1080
gaaaagggaa	tagttgttac	agaaatgggg	ggaacccctcg	gccagtatcg	ggctgtaacc	1140
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<210> 5366

<211> 1665

<212> DNA

<213> Enterobacter cloacae

<400> 5366

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tcgcaggacc	catcccttac	cgaagaaatt	atgcggctta	aagagcggat	tgagagcctt	180
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gagacggata	atgggcttcg	cagtgcagaa	aaatggacc	gtctcgttga	tgagctcaac	1560
cctgtcctta	cagacgccag	tattgcgct	gagaggtag	gcgactggct	taactttttc	1620
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<210> 5367

<211> 228

<212> DNA

<213> Enterobacter cloacae

<400> 5367

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ccgtttttca	tggtctctctg	cttcaaacct	ccagtttgca	tactgttcgg	cccaggccgt	120
ccgttggtgc	tggtaccggg	gctgtcgaag	ggattttctca	cgctccacat	caatcagctc	180
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<210> 5368

<211> 741

<212> DNA

<213> Enterobacter cloacae

<400> 5368

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ttgcgtatcg	atcttcctga	tattgaatat	gaaatcagtc	aggtgcagct	cggcgacgct	180
aaaacaacat	acagtgagtg	cattgaaagc	ctgatcattg	atgagaccag	ttcccgaggaa	240
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cgggagcctt	cagaggaagg	gcctcttctt	cagcgcttgg	ctgactgtaa	gatgaaattg	360
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gaacttgaat	atcttcattga	gattgtccgc	atcgctttat	acaatcaccg	gcttaacaat	660
gtcagtattt	cagatgttaa	aaacctgac	acaggaaagg	agagcagcag	ggtagagcca	720
caaaactatt	cactcttata	a				741

<210> 5369

<211> 261

<212> DNA

<213> Enterobacter cloacae

<400> 5369

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tactgcgact	gctattgggc	aaaaatcacc	caattctttt	tgtcattatc	taataccctg	180
gtaattcatt	caagtattct	gcttcagggc	ctgttcagct	tcctgtttcg	ccaaggtagc	240
ggcaagaatg	gtggagtata	g				261

<210> 5370

<211> 207

<212> DNA

<213> Enterobacter cloacae

<400> 5370

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gaagggcgcg	aggtcacgga	gggtttgcga	cacctgttcg	atgctcaccg	cgtccacca	120
tttaaccggt	attcccagcg	aagagagctg	gtttacctgc	cgttcggcat	taccgcgcgc	180
ccaggcgagt	accagatcgg	gctttag				207

<210> 5371
 <211> 972
 <212> DNA
 <213> Enterobacter cloacae

<400> 5371
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 catogaaggg atgtcattaa aaacaaccgg cgatttgggt aagctataac agaacactac 180
 agaattaatg atgtcattta taaaaaaciaa cccttggtct acaaaacgat gcttcaggaa 240
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 tatgtcacac attacatcaa tgtggtacca aaagaacgac gccatgctgt caacatgacg 960
 cctacactct ga 972

<210> 5372
 <211> 510
 <212> DNA
 <213> Enterobacter cloacae

<400> 5372
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 atagaaaata cgaacgaaaa tggaaatgcc gtttttgata ttgccagcct tgaaaaactg 180
 ggcattggtga gtttccagac gacctctccc tggataatg gccgcacgaa gtttgagggt 240
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 gcaactcaatg attacactac cgtcatccct ctccagcact tccagaaata caacgccatc 360
 ctggcttttaa aggtcaatgg cgaatatatg cgcacccggg ataaaggctc gtcattcatt 420
 gtctaccctt atgacagtct tctgaactc aataatcaga tttattactc gogatcgga 480
 tggcaggtca gcaaaatgaa gattgaatag 510

<210> 5373
 <211> 276
 <212> DNA
 <213> Enterobacter cloacae

<400> 5373
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 gccaaagggt gccgtattgt gcacgtccgc gatacctccg gccgcgtcac cgcggttgaa 120
 tgctatagcc gcgaaggact actgctggct gactgcacgc tcgccgtttt caaaaagctc 180
 aaaacaaaaa agctgatcaa atccgttaac ggtcagccct accgcattaa cactacgggg 240
 ctgaacaacg ttccgctca gcttgataat cgttga 276

<210> 5374
 <211> 336
 <212> DNA
 <213> Enterobacter cloacae

<400> 5374
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 tcggctatgg tatgcctgat gtttgtggaa caaagaggta tagtgtacct gaaagcaggg 180

agcgggtgttt	tactaaagtt	gtctttttaga	ttttcgaaat	cgactaatat	acgctgcatg	240
tatttagtct	atattataaa	tcttattctg	atgttcagcg	tggcgtgtaa	tattggtgag	300
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<210> 5375

<211> 768

<212> DNA

<213> Enterobacter cloacae

<400> 5375

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gccgggatcg	tcacggtggg	ctaccgctgg	ttgcgcgtcg	agtacaaccc	tttcgtgccg	180
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caggcgtgcg	aaagcctgtt	aacgcaggcg	aaccaacgtc	ggcttatccg	taccagggcg	300
gtcgtgaca	gcgcggggga	gtgtccactg	agtaacgtgg	tgcgcgtag	tgattttggc	360
ccggtcagtc	tgaacagcag	ctttcttgcc	agttgcccg	tggcgttaag	ttcggcgctg	420
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cgtgttacgg	ttctaaacgg	ctggaaaagcg	gaaaagacgc	agccctggct	acaggcgctg	660
ctctcgccaa	gctgtggtta	ttacggtaac	ggtctgggac	cggactataa	tgccgcccat	720
gccaacatt	tccatctggg	aatgcgcgga	tatggattat	gtcgatga		768

<210> 5376

<211> 351

<212> DNA

<213> Enterobacter cloacae

<400> 5376

ttatccagcg	cggcgcgaa	tatatctctc	ttaacgggat	gccctgggccc	tggtgatcga	60
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ccactggagc	cacaggaacg	gatcactgct	atccaaatca	acagtgataa	tagcgactct	180
cttcacaata	tttttgatga	caagcctggt	tatgtaccga	agggtgagtg	tcttctgtga	240
ttcggattta	agtttacacc	tggagagcgg	tataacttcg	cgtatgacgt	ccaatctgct	300
aaatcagggg	cgtattttagt	cactgctgaa	ttttcttata	ccaaagaata	a	351

<210> 5377

<211> 195

<212> DNA

<213> Enterobacter cloacae

<400> 5377

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gttatcgctg	taattgccgc	cgcattgggc	tttgggtggac	tggcgggtac	cgcgcatggt	120
gcagcgaaaa	ttgtcttcgt	cgtcgggtatt	attctgttcc	tggtcagcct	gtttacgggt	180
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<210> 5378

<211> 213

<212> DNA

<213> Enterobacter cloacae

<400> 5378

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<210> 5379

<211> 189

<212> DNA

<213> *Enterobacter cloacae*

<400> 5379

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<211> 207

<212> DNA

<213> *Enterobacter cloacae*

<400> 5380

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gatatcccat	ttttttattt	tgttatgttc	ctgcacttta	gtgagttttc	ttttcttcgc	180
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<210> 5381

<211> 534

<212> DNA

<213> *Enterobacter cloacae*

<400> 5381

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<210> 5382

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<212> DNA

<213> *Enterobacter cloacae*

<400> 5382

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<210> 5383

<211> 207

<212> DNA

<213> *Enterobacter cloacae*

<400> 5383

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<210> 5384

<211> 225

<212> DNA

<213> *Enterobacter cloacae*

<400> 5384

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<210> 5385

<211> 195

<212> DNA

<213> *Enterobacter cloacae*

<400> 5385

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<210> 5386

<211> 198

<212> DNA

<213> *Enterobacter cloacae*

<400> 5386

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<210> 5387

<211> 192

<212> DNA

<213> *Enterobacter cloacae*

<400> 5387

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<210> 5388

<211> 363

<212> DNA

<213> *Enterobacter cloacae*

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<210> 5389

<211> 225

<212> DNA

<213> *Enterobacter cloacae*

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 <213> Enterobacter cloacae

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<210> 5392
 <211> 195
 <212> DNA
 <213> Enterobacter cloacae

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<210> 5393
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 <212> DNA
 <213> Enterobacter cloacae

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<212> DNA

<213> Enterobacter cloacae

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<211> 3009

<212> DNA

<213> Enterobacter cloacae

<400> 5395

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<210> 5396

<211> 1971

<212> DNA

<213> Enterobacter cloacae

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<210> 5397

<211> 1236

<212> DNA

<213> Enterobacter cloacae

<400> 5397

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<210> 5398
 <211> 567
 <212> DNA
 <213> Enterobacter cloacae

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 gccattaaag aggtgcttgg gtggtga 567

<210> 5399
 <211> 195
 <212> DNA
 <213> Enterobacter cloacae

<400> 5399
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 gctatcccag gggatctgaa caaaaaattg ggtaaatacg ccaggttcag actcgacggt 120
 aatatctccg ccagattctt ggatctgctg acgcgcaagg aacagcccaa cgccgcggtt 180
 ttcacctttt gttga 195

<210> 5400
 <211> 249
 <212> DNA
 <213> Enterobacter cloacae

<400> 5400
 agctgtctgt ccagcgcact ggcaaccgtt tccagatggt tacgctgggc tggagatata 60
 agcatcttcc agtaccacaa cttcgcgcca ggtcaggaga gtggaaaaaa tcaggacaa 120
 gataaaacag aggttaacaa tcaaactggg attgctacgc ttatgcagcc actgcaaaaa 180
 agattgtttt acaacaaaag tatcgtgctg cacacacact ccctgattgt cgctcaccat 240
 ccgatatga 249

<210> 5401
 <211> 201
 <212> DNA
 <213> Enterobacter cloacae

<400> 5401
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 gcgagcccat cagaacggcg gagtagctgt aaacgcgatg gctatcaggc attgcatgag 120
 tcctcagggt tagccccggc aggcaccgcg ccgcggggga aacaggagcc ttaccgtgtt 180
 ttcgaacgca tagccgcctg a 201

<210> 5402
 <211> 183
 <212> DNA
 <213> Enterobacter cloacae

<400> 5402
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 tgcacactgg tcagaccgcg cttttcctgc ctaaaaccgt cattctcttc aagaaatctt 120
 tacctgcctt taactattga gacgaatccg atcgactcaa aatcctggca tgctactat 180
 taa 183

<210> 5403
 <211> 216
 <212> DNA
 <213> Enterobacter cloacae

<400> 5403
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 ctctccacg gggagaggga gaagggcacg aatcgtaggc cgggtaaggc aaagccgcca 120
 cccggcaagg ggtagaagc gcgaatctac cgcagacgcc agcatctcca gcagccgttc 180
 gctgtcttcc cagctcaggc acgggtcggg gattga 216

<210> 5404
 <211> 282
 <212> DNA
 <213> Enterobacter cloacae

<400> 5404
 acaacatcac gctcgggatg ggcaaaaacg acgggggtata aaatggcacg agtgaaaaca 60
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 catctgataa gttcgaaaagg acagaaaaca tgcgaggcag atatccttac cgtccaggac 180
 gataaggcct ggctgacggg gccctacacc ggcacctggg atgtgctgat cgacagccac 240
 agccagtcgc tcgaacattc cgtaagttac gtggcggcat aa 282

<210> 5405
 <211> 384
 <212> DNA
 <213> Enterobacter cloacae

<400> 5405
 ataataaac ttactaatcg actgaaaaag aagttattag tccttgatgg cattgacaat 60
 gatttcatag agtatggaaa ggaaataaca tgcctgaat gcgagggggg aatagtctac 120
 tctatcgtaa actcatatga gtttgacacg ctacagaag aagtaaaatg ctttttggtt 180
 aagaaaatga gaggtgtgaa gcttgatagt gaacataaga aatataagcta tgatgaaagc 240
 caattagatg ttctgaaaaa cacatgttca aagtgtttta aagagttttc cgctatatta 300
 acgtataaag aagtgcagcc agcccgatac cgggtatata ttgtgggggt ttttgaaggt 360
 gatttgaagc agatcaaact ttaa 384

<210> 5406
 <211> 183
 <212> DNA
 <213> Enterobacter cloacae

<400> 5406
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 agttatatca agcagtttaa aaaaggctac gaggaaaaag atgactacgg ttacattgt 120
 catattgacg tatataaacc ccttgaggag gttgacgcaa cgataccttc tcatgttgag 180
 tga 183

<210> 5407
 <211> 228
 <212> DNA
 <213> Enterobacter cloacae

<400> 5407
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 aatggcctat ctctgttaaa tattaattta ataacaatta cttgcatttt tatattgttc 120
 atttctttct gttggctggc accctcacgt atcgtcgtcc acacttatct tttagccaaa 180
 agagaggtta acgatgccat acaaatcgaa aagcgaatta ccagataa 228

<210> 5408

<211> 186
 <212> DNA
 <213> Enterobacter cloacae

<400> 5408
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 accccctggg gagtagttgc acagtcagtg ggcaattcat gcctgattga ggtgcgtaat 120
 acagcgctct tcttgcagaa accccgtaac gccggggatg aaaagctggc attacctttg 180
 cattaa 186

<210> 5409
 <211> 336
 <212> DNA
 <213> Enterobacter cloacae

<400> 5409
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 tgtggtgaaa gtaacatact tgtagtggtg ccatTTTTTaa gctatgcatt ggtcgactta 120
 acacgccagt tagtctttgt gttaagcgag cctaagccat tatcaaccgt ttgaccatc 180
 ttcaatgtgc agggcgaaaa actatttttg tctgcccctc ctgaagggtgc gactttctat 240
 tacttaacat tcaacctgtc aaaggaagtg atcgttgtct gtagctatcc agcaaaaaaa 300
 atggctggca tgattgggtt tattcctggg atatga 336

<210> 5410
 <211> 429
 <212> DNA
 <213> Enterobacter cloacae

<400> 5410
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 cagaacaaac caccctact caatccagac attatgaacg agtacgtagc ctcagggacc 180
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 gttattgcag attgtctcgt tgaagagcaa ggaaaatgga aagtgcgcat ggcgacgcta 420
 attaaagtaa 429

<210> 5411
 <211> 345
 <212> DNA
 <213> Enterobacter cloacae

<400> 5411
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 aaagatatgg ggcgcacatt agtcaatgca ggctttcacc tggatatatga tcaaccccat 180
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 taccgcaaca tacaacctca ttacgaactg ttcaggcatg attaa 345

<210> 5412
 <211> 234
 <212> DNA
 <213> Enterobacter cloacae

<400> 5412
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 ttaatgagaa tagtaatcat taatcagttg aatgtggagt atttctttcc ttcaaagcct 120
 tacattcacg aaatgtgcgg ttatagtttt cataacattt acaaaggatt taacatatat 180
 acacagggtc cagttgattt ggttcgaatt tttcttaacc ggtttactcc atga 234

<210> 5413
 <211> 675
 <212> DNA
 <213> Enterobacter cloacae

<400> 5413
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 aacggcaagc ggtttggtcg cgtttacagc cttaaacagg atttgaaggc cattccagat 360
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 gtgccttacc ggcaaatcgc tcagcaggtg aaagccccc cgcagcgcct ccagctggcg 480
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 atagccgccc acgtgcagcg gttaagggaag acggggatga gaatagtga gtccgatacg 600
 gaggtgttcg acacccttac cggaaacaaca cggcgcattc cggtttatcg tcttgaggac 660
 gctgccgcta cttag 675

<210> 5414
 <211> 249
 <212> DNA
 <213> Enterobacter cloacae

<400> 5414
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 gttctgattg cgttaccgg gctcaagccc ggaaccatcc tccgggccag aaaagaatgc 120
 tggatggttg ggcggaata tgtgcacgtt tcaccggacg gaaatccgaa accttccagc 180
 gagtgcattg acaaccgtaa agcgggtcgat gcgtgggtgg cctcaatgaa aaacaaacag 240
 cctgggtga 249

<210> 5415
 <211> 186
 <212> DNA
 <213> Enterobacter cloacae

<400> 5415
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 aaaatatggc aagcggacca ttatttcttc tggaggggtg taaatgaaaa gaaaacttct 120
 ttttatctgc gcgggtacag tgctgacggc ggcgactgtc ggtcaggcgc tggcagtcac 180
 cagtag 186

<210> 5416
 <211> 1002
 <212> DNA
 <213> Enterobacter cloacae

<400> 5416
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 cttctcctgc tgtgctccgg cggcagctgg gcggcctgta ccgtcagtac ggtgaatgcc 120
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<210> 5417

<211> 186

<212> DNA

<213> Enterobacter cloacae

<400> 5417

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ctgttttata	aatcagtgac	acgcgtattg	acactctttg	catttttgcc	attcaccctt	180
ttgtga						186

<210> 5418

<211> 234

<212> DNA

<213> Enterobacter cloacae

<400> 5418

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atcgatttga	tgtttttttc	caaacctggg	catttccgcc	tgattcctca	ggacgctgat	180
cgcaggctga	atgaggtgta	tcactctggt	ggtactggcc	tcagttttcg	gtag	234

<210> 5419

<211> 1395

<212> DNA

<213> Enterobacter cloacae

<400> 5419

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<210> 5420

<211> 2637

<212> DNA
 <213> *Enterobacter cloacae*

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 gtcctgattg tgggtatttt ctgcgccgta ccgcctaaag caggagaaga aaaatga 2637

<210> 5421
 <211> 219
 <212> DNA
 <213> *Enterobacter cloacae*

<400> 5421
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 ttctggttgg ctgtgggtcg acagaagtat gacacctccg ccgggaagcg ggagctggga 180
 accgcttctc tacggcctgc accagatgca gatgcgtaa 219

<210> 5422

<211> 204
 <212> DNA
 <213> Enterobacter cloacae

<400> 5422
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 gggaaatttt cattttacccg aggctactcc ctcaactcca acaagttgag agtagcctct 180
 tattcttttt ttgacaagga gtaa 204

<210> 5423
 <211> 783
 <212> DNA
 <213> Enterobacter cloacae

<400> 5423
 tcgataaaaa gaacgtcggc acgtataagg ggtggacggt taaatgatcc ttttccctct 60
 cccgcaggga gagggaaactg ttttaaagga gtcaccatga aacgctccga catcaatgaa 120
 atcctcggcc ataactcgga gttcttctcc atgcacgacg tgcactctcc gccttttgcc 180
 agctttccgc cgacaaaatg gcagcagctt gaccaggctg catggcagga ggtggttgac 240
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 tcggtcaatg acgatgaaca cgacaaccac tttttacagc ccactcgatc ctacaacacc 720
 atcgaagaag acgaaccggc ggtgctggtg ctgtgcaacg agtacaacct gtttcggata 780
 taa 783

<210> 5424
 <211> 351
 <212> DNA
 <213> Enterobacter cloacae

<400> 5424
 ggccagttca cctgcgagtc tggccttatg aaacgttact ctaccgctct gttattgggt 60
 ctgctgactt taaccagcca actggcgcat gccgatgtga ttgatgacgc cattggcaac 120
 attcagcagg cgatcaacga tgccataaac cccagcagca gccgtaatga cgatgacgac 180
 gatcgttacg accgcagccg tcaaatacga agccgacagt acgacgatcg tcgtcggcag 240
 ctggaagaca gacgccggcg tttagacgag cgtcagcgte agttggacga cgacaggcgt 300
 cggttagaag aggacgagcg caggttggaa gacgattacg atcgcggtta a 351

<210> 5425
 <211> 240
 <212> DNA
 <213> Enterobacter cloacae

<400> 5425
 aagtcccttc caacatcaat gacttttaaaa gttgagtcaa tcgctatttt ttgcaaaaag 60
 tgttgacaa gtgcgaatga gaatgattat tattgctctg cattcaggaa gacctcctac 120
 gggaacctga aagcacgaca ttgctcacat tgcttccagt attactttag ccagctttta 180
 gctggctttt tttttgttat ggtagactc agcaaccttc gaaaaaggac tgagccatga 240

<210> 5426
 <211> 219
 <212> DNA
 <213> Enterobacter cloacae

<400> 5426

ctcgatgcgg	tcgacgcgca	gccagtgtgc	gcacatatca	atcatgggtgc	gaatcagcgc	60
gctggccacg	cgcgggttat	gccactctgc	gccaacgcat	ataccgaaat	cggcaacgtg	120
gctgcggcgt	ggtcgctggg	cgacatcaat	ggtgaggtgg	cctaccacga	tatcatcaat	180
gcaggcaacc	agctgtttaa	tgcccggctg	ttcgccctag			219

<210> 5427

<211> 237

<212> DNA

<213> Enterobacter cloacae

<400> 5427

aggcaccggc	aggcgctatg	ccctgcgcaa	cggcgagtat	gtggatgcgt	attatatggc	60
gcgaatgaag	tagtttgttg	cggggtggcg	gcttcgcctt	accgggcta	cgtccgtgtc	120
gttgtaggcc	cggtaagcgc	agcgcctccg	ggcaacaaaa	tcaatacccc	gccgttaaat	180
catccaccga	acgcgggtcc	gacgcgcgca	acagcgcgcc	atccgggtccg	accataa	237

<210> 5428

<211> 195

<212> DNA

<213> Enterobacter cloacae

<400> 5428

ggatgccggc	agcagcgccg	gcaggaaaaac	aagggaggtc	agtttcatga	atcgggactc	60
cgtcagactg	aatgcctga	cagcgtgccc	gtggttgctc	agaaaagccg	cattaaattc	120
tatatccgga	actacaaatt	aatcagatgg	gatgatttgc	taatgagtag	gttcgagagt	180
gtaatttatg	actga					195

<210> 5429

<211> 285

<212> DNA

<213> Enterobacter cloacae

<400> 5429

ttaaaccgtc	ctcccgaat	gtcaacggtc	aaaatggaaa	acgtgatccg	taaaaataaa	60
agggcaccgt	ttccgggtgcc	ctgggggtcag	tgcccttaacc	tgcatcgtc	tcattctgtct	120
ccggggaaaa	atcccgaacg	ggttttcaag	gagtgcattg	gtcttacagg	tcagtttagtg	180
tgcaataact	tcctgccagg	cctgctgcgg	gtaaatcccg	ttatagttaa	ccttacagca	240
ccgtggccag	cggggcacct	atgcatacaa	gcctgggaac	aatag		285

<210> 5430

<211> 381

<212> DNA

<213> Enterobacter cloacae

<400> 5430

gaaaactcaa	cgttaaacag	agggaaaaatg	aaaatgatga	atactgttct	gaaggccacg	60
ttaatcactg	cactgattag	cggccctgtt	cttgcggtcg	acggtactgg	caaagtccag	120
ctttcagacc	tgcatttcgc	ctcagcagca	aatggtttgc	agcaaattga	aggcacggga	180
acaaacgtgt	caggtgggccc	tgtgaagact	gtaattgtca	aattcaactt	gcttcagaat	240
ggggcagtaa	taggaaatac	ggcagcgtatg	gctgaaaatc	tggagccggg	tcagcaatgg	300
aagctacagg	ccccctacga	cagcataacc	aacaagccag	acagcttcaa	agtgcagaaa	360
ctgacggtat	ttaataactg	a				381

<210> 5431

<211> 741

<212> DNA

<213> Enterobacter cloacae

<400> 5431

agagaggcgt	tagacatgtc	tgatggtaaa	acaaagggcg	gaacaaccgc	ttcacgagcg	60
ggggccctac	agtcctctgt	taatatacctg	ctccatacac	attatgcaat	ccggcttttg	120

gagggcagga	aacgtgatgc	tccggacgag	acaggggtga	aaaaaaagag	gcctgaaata	180
atcagcatgc	cgcaagccat	tgcgcgagct	ggtaatgctt	cccagagactc	agcggcagat	240
aatccctatg	cogatatggc	tctggtagcg	ctcgaagaag	ccctgcaacg	agcaacactt	300
aaaattaatg	aaaacgtcag	ttcactggat	gccatattgt	cagccgtacc	caaaggggta	360
acgctctcgg	aagttgaatc	agccgatccg	ttaaatgtga	gcgttttcag	ccgttcaccg	420
ttaggatacc	ggtgcgratg	gcttctgggt	ggatatgatc	agttagcaat	gaaagctttc	480
caggcttttc	attacggact	gatttcgcgt	tgcgaacgtg	acgctatcct	ggacaatggt	540
ggccatgctg	ttcgtcaggt	ctatggcgtg	attcagcctt	accgaacact	tgcagtgact	600
cgccgtgata	ttgcagaaaa	aaccacgcaa	gggcttggtg	ccattgagcg	aaatggcgaa	660
cctgatccgg	atgtgttaag	cggtaaaaaa	cgttcttcgt	tctcacctcc	gcttaaaaaa	720
accatagcag	aggaggaatg	a				741

<210> 5432

<211> 549

<212> DNA

<213> Enterobacter cloacae

<400> 5432

cccccgacgg	gaaaccaactc	cgcgcagggc	agatgggtttc	tccgtcgtac	ctattttttac	60
ctccatggag	aaaacatcat	gtctgcaaac	aacacttctg	catctgcaaa	atctgagtac	120
ttcaacctga	ctatcaaagg	catcgggtat	ctcagaaca	ttcgccaggt	taaccatcag	180
aatggctcgt	tccctcagctg	cgtaatcaat	gcactgagtg	gtccgactga	taatccggcc	240
tacgtccggt	ttgacatttc	tgtcgcaggt	aaagaggcaa	ccagccttat	cgcgcgtgc	300
cagaaagccg	tcgatgaaga	caagaaagtc	ctgttgggct	ttaacctgag	taaccctgcc	360
acggacatat	ttacgctgaa	caagggcgac	catgccggcg	aacagcgcg	cagtctgaaa	420
gcccgcctga	taaaggtgga	ctggatcaaa	ataggccagg	aaatggttta	caagactgaa	480
aaatctgact	ccgtgcgcgc	gcagaatggc	tctgtcgcac	aacaaaacta	cgcagaaaac	540
tcattctga						549

<210> 5433

<211> 699

<212> DNA

<213> Enterobacter cloacae

<400> 5433

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ttttcaccag	gcaggcttgc	cactgtttctt	cccctgtcgc	tccttgccgg	ctgtgtttcc	120
cagccgcaaa	agttgcagca	acgtgcgcct	gccgaccga	caccgcgcac	caccgtcacc	180
cgaacgttgc	agccggtctc	tcgggacgag	tatgcgcgga	cgcgcggaagt	ggtgcgctac	240
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attattgata	ttcgcacccc	gtcatccctg	catcctaccg	tgggtggatgc	gctgcgttac	360
gccctgcgcc	agtcgggtta	ttccctgtgc	gcgaccggct	ccgccaacgg	cgtgctttac	420
cgcaggaat	tgccggcagt	ccagtaaccg	ctgggcccga	tgcgcctgcg	tactgccctg	480
caggtccttg	ctgggtccggc	ctggcagctt	gaggtggatg	atgtacagcg	tgtggtctgc	540
cacagcctgc	gcgacggcta	ccagttgcgc	gtctcccagc	ttccgcgcgc	ggtcagcacc	600
tggtcgcgcg	ctgcgcgcgc	agcgggtgtc	caaccggcca	tcagcgcacc	tcagtcgcgc	660
cccgttaaac	ctgtcagcgg	agggtttctg	agaaaatga			699

<210> 5434

<211> 636

<212> DNA

<213> Enterobacter cloacae

<400> 5434

atgggtaaat	gcagcgttct	gaccggcgcg	ctggcgctgg	gcttactgat	ggcggccgctc	60
cctgacggcc	atgctgacca	gacgggtgcg	gaggggttac	tcgcgcgtgg	catggcgcac	120
ggcgtgcccc	cggaaagcgt	ttactcggta	tcactgagcg	agtcttcgcg	caaacttccc	180
cgcggcgtgc	ggccatggcc	ctggaccatc	aatgtggcag	gcaaagggta	tcgctatgag	240
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atcgatgtcg	gtattgccca	ggtaaatctg	ggctggaacg	gtcatcattt	tgccctcgacg	360
tgggaggcgt	ttgaccctta	caaccaacctg	aacgcgcgcg	ccaccatttt	gcgtgagtg	420

tgggcgcgta	agccaggcag	ctggctggat	gcggccggct	gctaccacca	tcccgcaggt	480
ggtcagcctg	ctgcacgtta	ccgcgccatt	gtgagaaggc	atctggcaaa	aatcagccct	540
acaccccgca	tttctgcgcc	ggcagctgaa	gcgcccgtt	cggttgctgc	gctcaccccc	600
gatccaggct	tcgtctggac	tgaaccggg	agataa			636

<210> 5435

<211> 411

<212> DNA

<213> Enterobacter cloacae

<400> 5435

acgttaagtc	aggagatgaa	ttccatgcac	cattctgagt	ctgttggtgc	ccgcctgcgc	60
cgttttgcga	gtcgtacgt	gacccgcgcc	ggtagccttg	ccctcctggg	ctggctcacc	120
tgcaaacggg	cctttgcgga	cttgccaagc	gttgaagcgc	ctgagtcagg	aggcggaagc	180
gggctgtccg	gacaaatcaa	gggctacctg	caggacggca	ttgttatcgg	ggggctggtc	240
gtggcgcccg	ttgcctttat	caacgtttgc	attgccgccc	tgcacacctt	caccgaagtc	300
cgcaatgaga	aagccacctg	gaccaaattc	ggggccattg	tgggtggtgg	tgtggtgctg	360
ctggttgccg	ttatctggct	gctcggcaag	tctgccgaca	ttctgctgta	g	411

<210> 5436

<211> 369

<212> DNA

<213> Enterobacter cloacae

<400> 5436

gagcctgcga	cgatgcagac	cattcgtttt	ttacctgacc	gtctcaacag	tgagcccggtg	60
gtgttttcgcg	gattcaccac	ccatgagatg	gggctggcag	cccttgccgg	cgcggtgctg	120
ggtctgtctc	tgtaactgcc	gtttatcccg	cttgccggct	gggttggtgt	tcccaccggc	180
ctgctgggtca	tgcgcgtgct	gctcgtctgg	ttcggcgccc	gctggatggc	caggctcaag	240
cgtggtaagc	cogagaactg	gctctggcag	cgactggaga	ctaaaaaacg	ccggctgggg	300
atgggcaatc	cgaaactgat	tgtggatgcc	cggggctggt	cagtgaaacg	taacaggaga	360
gcttcatga						369

<210> 5437

<211> 474

<212> DNA

<213> Enterobacter cloacae

<400> 5437

atttcaactgc	agcgaactgg	aggcggcaaa	acgcgtcgcg	cagaatctgg	accgtctgcg	60
cggctctgacg	gagaaacaac	aggagcctgc	cacggtatga	tgacactgaa	gtaccctgaa	120
cccgcatttc	atgagcacag	tggcggtgcg	cttttcaccc	tgtcgccctca	gggggagccc	180
ggcgtgctcc	cggcgacaca	tcagcatctg	gtgaggctgc	ggcgatgct	caggcagcgc	240
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gccatctatc	ttgagggaaa	gctgaagcag	gcggtgaata	ttcttatcac	cgtgacggga	360
cagacgagct	ggccgcagga	agaggagtat	gcgcattccg	gctggatat	cacggtgccg	420
gattcggctg	acctggtgta	tctgatgctg	tggattaacg	ggcttgacgt	ataa	474

<210> 5438

<211> 195

<212> DNA

<213> Enterobacter cloacae

<400> 5438

cggaggttcc	ctatgaaaca	ctctccacaa	cgtaatgcag	ctattctcaa	tcttcatgcc	60
cgtactatgc	agataaacgg	cactgtcgat	gaaaagggtg	agcagttgcg	caaaatgttt	120
gctcagagtt	caacacgaac	taaggatgac	aggaagcacc	gtggggatcg	agaaaaggta	180
tattacgaag	gctga					195

<210> 5439

<211> 489

<212> DNA

<213> Enterobacter cloacae

<400> 5439

ttttagattc	oggatataga	atttaaatgcg	gctttttctga	gcaaccacgg	gcacgctgtc	60
aggcgattca	gtctgacgga	gtcccgattc	atgaaactga	cctcccttgt	tttcctgccg	120
gcgctgctgc	cggcatecct	actggccggc	acggctcgtct	tactgacag	tcagcatctg	180
ccggccaacc	tgcgcctga	cgtgccggtg	gtgcttcttg	atggtcctga	ccggctgcag	240
gccgacatgt	tcggggaaact	gcctgcagac	ccgcagcagg	ccgaagcaca	agtcaggcaa	300
gttatgacgt	ctcctgcctg	gcaacaaaaa	cagctgcaac	taaacgattc	ttatcgacag	360
gtggtccggg	cctgggagct	gggcatcaaa	aaagtgccag	cagtgggtatt	tgatgaccgc	420
gatgtggtgt	acggcaccac	ggatgtggcc	gtggccactt	ccctgcgtaa	ccggggaggt	480
ggtcagtga						489

<210> 5440

<211> 327

<212> DNA

<213> Enterobacter cloacae

<400> 5440

cgggatgatt	ctcatctcgg	actgtcgtgt	tttatccacg	acggcacaga	gcattttcgc	60
gacatggaag	tgatogaagg	cgattttttc	taccgcgtta	ggcaggtgga	tacgggctgc	120
gctgatataa	gcctgattca	tgtccatcga	cagggttttg	atggattcga	tctgacggtc	180
acccaggtc	tagaggtaac	ccgccaggct	ttcaaccccg	cgatcatccc	tgagctccag	240
ggcctgtccc	tgtgtatcag	agataaccgt	gacgtactga	tgaccctttt	tgaaggcgac	300
ctcatcaaca	cagaggtgac	gtgctga				327

<210> 5441

<211> 570

<212> DNA

<213> Enterobacter cloacae

<400> 5441

cagaggagga	atgatatgat	tcgccctgtg	ttcctcctca	cctctttctt	tttactgagc	60
ggatgcgcaa	caacggactg	ggctgcgatt	aataaacagg	tcagcgatac	cgctgcgaac	120
ctgaaaaaaaa	cgtttaggcg	caacgatagc	ggagaaagtg	gtgggatgcc	gctgatgagc	180
ccggcggggc	aacaggccat	gaagtcctgc	gataaaacgt	tctccgtgcc	ggtcgatgtg	240
gataccgcgg	cggccgcct	gaagcgcct	tacaaattta	tctccacaca	ggagcttgag	300
gcactgcggc	aggccacaaa	tgacggggac	tggaaagcgg	ctgctgaaga	tgatgcgcat	360
cccgtctggg	acgccatgcc	gggcagctac	tacaaaatgg	gctccgactg	gaacggacgt	420
gatcacctgg	atatcgaaat	cgagaaaaac	gggtccggca	gcaggctcta	tgttgtctat	480
cgttcatcat	catcacagcg	tctggccggg	tccggcgcca	cgaagctgat	gaatgatgtc	540
cgcgctgttg	cggcggggtga	aaaacgctga				570

<210> 5442

<211> 270

<212> DNA

<213> Enterobacter cloacae

<400> 5442

tccggtcagc	atttaaggat	aactgacatg	cctgttatac	tgaggatcaa	cggtttccgg	60
ttcttttttt	attctaataga	aggtaaacccg	ctcgaacctg	cacacattca	cgtaatgaaa	120
gcaggtagtg	aagccaaaatt	ctgggttaacg	ccatcagtg	tactggccag	taacgatggg	180
tttaattcac	gggtattataa	agaactgacg	gggatcgttg	aagataacca	agcattgttt	240
ctggaggcct	ggaatgacta	tttcagctaa				270

<210> 5443

<211> 765

<212> DNA

<213> Enterobacter cloacae

<400> 5443
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 tttttagccg ccattgctgt gaggcccccg accctggccg cgaccacatc aggacagacg 120
 gatgtcagcc gacaggaatc aacacaacgg gcggactccg ctcagcaaaa cctgcagcag 180
 caggccggac agtggggact cagtaccgac gattatcagc gttatcagca gctgatgaag 240
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<210> 5444

<211> 783

<212> DNA

<213> Enterobacter cloacae

<400> 5444
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<210> 5445

<211> 264

<212> DNA

<213> Enterobacter cloacae

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<210> 5446

<211> 978

<212> DNA

<213> Enterobacter cloacae

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<210> 5447

<211> 2946

<212> DNA

<213> Enterobacter cloacae

<400> 5447

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<210> 5448

<211> 633

<212> DNA

<213> Enterobacter cloacae

<400> 5448

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aaagtaaatg	tcaaaactgg	ccagtcaatc	ttgcgctacg	cagtcctctc	ccagcagaaa	240
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<210> 5449

<211> 1557

<212> DNA

<213> Enterobacter cloacae

<400> 5449

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<210> 5450

<211> 786

<212> DNA

<213> Enterobacter cloacae

<400> 5450

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<210> 5451

<211> 540

<212> DNA

<213> Enterobacter cloacae

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<210> 5452

<211> 537

<212> DNA

<213> Enterobacter cloacae

<400> 5452

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<210> 5453

<211> 405

<212> DNA

<213> Enterobacter cloacae

<400> 5453

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<210> 5454

<211> 672

<212> DNA

<213> Enterobacter cloacae

<400> 5454

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<210> 5455

<211> 702

<212> DNA

<213> Enterobacter cloacae

<400> 5455

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<210> 5456

<211> 1008

<212> DNA

<213> Enterobacter cloacae

<400> 5456

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gcgcagatta	ttgccagcgc	cgtgtgcgaa	aactgtatca	gctggcggtg	cagtggcatc	180
tgttactggc	tggtctgcac	cccccttggc	tgcaaagtgc	gcacgtcggt	caaagtcact	240
cacttcattc	cccagacagc	cgtttcgacc	tatgtcgcgc	cgggcggtaa	cccgtggcag	300
gaaatggcgt	ttgtcagcca	gaccgcgggc	gggctggaga	gtgccgtgac	cagcgggctt	360
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tatccccgtt	cggggtttgt	cagccagacc	gatgatgaca	aagcctctgc	cgtgggtggca	720
cagcgtgtgg	cagacattat	caccgcgcgc	gggcagcccc	atgtttatca	ggtgcttaag	780
ggcaaccgcc	atgacgggta	ctggccaccc	ggcgagggtca	cggaaaaaac	cggcacgcgc	840

aatcacaaat	ggcagcgggt	ggctccccac	atgacacagt	cctgtgccgt	cttccccggac	900
gggagccaca	ccgccgcgag	cgataacaac	gaagcctttg	cgctctggca	gccctacagc	960
tgctgcaaaa	agcgcgggca	gaaatttctg	ggcagcactg	atatctga		1008

<210> 5457

<211> 231

<212> DNA

<213> Enterobacter cloacae

<400> 5457

aaattatttt	catctttctt	ttcattaaaa	ctattttattg	aagcatcttt	agagctagat	60
cctatatgtg	ttatggcagc	aataaaaagtc	cataataaaa	ctgcgctgca	gcttatcaag	120
aaaccgcctg	ctataagtgc	aactaacgaa	caaaggacag	ctaaaagcag	cggtatgtgg	180
cctaaccact	tcggcagttt	gtattgttta	gccagtatga	cgcagcgtg	a	231

<210> 5458

<211> 204

<212> DNA

<213> Enterobacter cloacae

<400> 5458

agggactata	gcggattttt	tgagcaatta	ctaattactg	cttcagtgtc	cagagttact	60
aataaattct	ctaatatcat	cgggttaatt	tttttcaatg	cgttacgact	tgtcatcatt	120
aaaaaagcat	cattatactg	tgcttatatg	ggtcttcccc	gatcatgggtg	ggagactcat	180
aaccccatgt	ttaacctgcc	gtaa				204

<210> 5459

<211> 186

<212> DNA

<213> Enterobacter cloacae

<400> 5459

cacaaatata	ttctttatttt	taaaaaccag	atctcgatgc	ataattattc	cattttatttt	60
ccatgcgtaa	cggcttccct	tctcagccaa	cagttaaagc	tgaccttttt	acaactcgct	120
tataaaaaagt	ataggggtat	tgtttatgcc	atggataata	agtccaatag	tgatccaagt	180
ttttaa						186

<210> 5460

<211> 183

<212> DNA

<213> Enterobacter cloacae

<400> 5460

tgttttatat	caatttttag	cactgaaaaa	gatttttaaga	aaaacttcat	caattcatgg	60
ttatgcccg	taatacaaat	aacgccagt	caaaactatc	tgcttcagg	tatgtctctg	120
gactggccct	acaaacatca	acggctccca	ttgggagccg	tctttttaac	aactactgca	180
tag						183

<210> 5461

<211> 450

<212> DNA

<213> Enterobacter cloacae

<400> 5461

cgcagttcgg	caaccttcct	gatgaagagg	cctggctgct	ctccgttcac	ttcgaagtcg	60
cgaaagacaa	cctttaagga	gcaacacatg	gaacagatta	cagtcgtgat	tggcgatcgc	120
ctgggtaaag	ggcagaaagt	ggctgcgggt	gtggaaaaag	ccggcggaag	cgcggttgctc	180
gtaccgggca	tggcagcgga	tatgaagctc	ggtgacgtga	tgaaagcaga	aaacgccacc	240
ttcgggatct	ccttctgcgg	cagcggcggc	gcggggcgcca	tcaccgctca	gaccaaatat	300
ggctacaagg	ccaaatacgg	gatgcgctcc	gtggatgagg	gtgtgaccgc	catcaacgaa	360
ggctgcaacg	tgctgggctt	tggctttatg	gataaagaag	agctgggcga	gcgtctggta	420

caggcgtggc agaagaaata cggcgcgtaa

450

<210> 5462

<211> 789

<212> DNA

<213> Enterobacter cloacae

<400> 5462

aagggcagac	tgatgttctt	aattatatta	ataaaatcgc	tcatcatcgg	cggccttgta	60
ggcgtcgggtg	tgggggcggg	ggctgcacgc	atgtttcatg	cgcctaccac	tcagggcatg	120
ggcgcgtttc	gtacgttggg	ggaactgaac	tcctgcgaag	gggatccggc	gtcccacttc	180
tcctttgggt	taggtttctt	ctttaacgcc	tgggcctctt	ccgtggccgc	aggtgccttc	240
acacaggacg	ttgaccaccg	catcatccca	aactgggggtg	ctgccgcgct	gatgatcaaa	300
aaccgtaacg	tcggtgaaac	gctgcatgac	ccgcgcacaaa	tggcgattgc	ctgcggcatc	360
atcggcatga	ttgtcgtgac	cttccttaac	ctgaccgcct	cctccgtgcc	cgcagcgctt	420
caggtcaccg	ccgtgaagggt	gctgggtgct	gccgcgaacc	tgctgggtcaa	caccgtgatg	480
ccggtaatct	tctggctggc	ggccatcgac	gcgggtaaaa	aatcgggctt	ctggggccacc	540
atctttggcg	gcgcggcaca	gctgatcatg	ggtaacgcgc	taccgggtct	ggtactgggt	600
attctgatcg	gtaaaggcgt	ggaggagagc	ggctggaacc	acgtcaccaa	agtgatgatg	660
gcggcgatcg	ttctgctctt	cgtgctgagc	ggcttcttcc	gcggcttcga	catgaagatg	720
atcgaatcct	tccatctgac	cgtgcgcgaac	tggctcgaca	tgatccacaa	ctcgctcagc	780
ggtaaataa						789

<210> 5463

<211> 642

<212> DNA

<213> Enterobacter cloacae

<400> 5463

atggaacaga	ataaagggtt	ttgggtatgc	gactggctgt	tcccgatctt	cgttggcctg	60
ctctcctccg	gcgtgtttgc	cgggaogcac	atgtactacc	tctacggcat	cggcgcgttt	120
aacgaagtgg	ccttcgtggc	gatgctgaaa	gcgggcattg	ataccggcgt	ttacggcgcg	180
gtggcggcat	ttggcgcgag	cttcctgttc	gcccgaaatta	tccaagggtc	gctggtaggt	240
attcttgata	tcggcggggc	gatccagacc	ggcgtggggc	tggcgtacc	ggcgtgctg	300
ctgggcgcgg	ggatcatgtt	cccgggtgac	aacttcattg	cctcgtgat	taccggcctg	360
gtgattggtc	tggcgattgg	ctacgtcatc	atcctggcgc	gtaagttcac	catcaaccag	420
agcaactcca	cctacggcgc	agacgtgatg	atgggcgcgg	gtaacgcctc	cggccgcttc	480
ctcggggcgc	tgattatcct	cagcgccatg	accgcctcca	ttccaatcgg	cgtcggttcc	540
ctggtaggcg	cgttgctggt	ctacatctgg	cagaagccga	taaccgggtg	cggcatcctc	600
ggcgcaatga	ttttgggctg	gctgttcccg	gtcgcctttt	aa		642

<210> 5464

<211> 768

<212> DNA

<213> Enterobacter cloacae

<400> 5464

cgaagtatta	ggacaggaga	aaaacgcgatg	aaactgaccc	ccaactttta	ccgtgaccgc	60
gtctgcctga	acgtgctggc	aggtcctaaag	gccaacgcga	gcgccatcta	tgaggcggcg	120
gaaggccacg	tgctggtggg	cgtgctctcc	aaaaattacc	cggacgtggc	gagcgcggtc	180
gcggatatgc	gtgagtacgc	gaagctgatt	gataacgcgc	tctccgttgg	cctgggcgcg	240
ggcgatccga	accagtcggc	gatggtgagt	gaaatatccc	gccagggtga	gccgcagcac	300
gttaaccagg	tctttaccgg	cgtggccacc	agccgcgcgc	tgtgggggca	aaatgactcc	360
gtggtcaacg	gtctggtctc	tccgaccgggt	accgtcggga	tggtgaaaaat	ctccaccggc	420
ccgctgagca	gcaacgcgcc	ggacggcatt	gtgccggttg	aaacgcgcct	cggcctgctg	480
aaagatttgc	gcggcagctc	catcaaatat	ttcccgatgg	gcggcctgaa	gtgcgcgtgac	540
gaataccagg	cggtggcgga	agcctgcgcc	cgtaacgact	tctggctgga	gccgaccggg	600
ggaatcgatc	tggagaactt	cgaggcgatc	ttgcagatcg	ccctggatgc	gggcgtgagc	660
aaaatcatcc	cgcataatcta	cagctcgatt	atcgacaagg	ccagcgggtga	tacgcgcccc	720
gaagatgtgc	gcacgctgct	ggcgatgacg	aagaagctgg	tgaagtaa		768

<210> 5465

<211> 225

<212> DNA

<213> Enterobacter cloacae

<400> 5465

ataaacttat	gcacactggg	taagtacgag	gttctggtct	atagtcattg	ggcatcaaaa	60
tttgcgctca	ggacagtcgg	gccgattgtg	gcaccgcaag	agcgtatgat	tcgcaggaga	120
tacaagaatg	aaaattttcc	aacgctacaa	cccgttcag	gtggcgaagt	acgtgaagat	180
cctgttccgt	ggacggttgt	acatcaagga	tggtggcgct	tttga		225

<210> 5466

<211> 459

<212> DNA

<213> Enterobacter cloacae

<400> 5466

ctgttggtcg	agaagggaag	ccgttacgca	tggaaaataa	atggaataat	tatgcatcga	60
gatctggttt	ttaaaaataa	gaatataatt	gtgttattta	tgtagctac	cataggatat	120
gggatttggc	gcatgcttgg	tgactttttt	taccttgaac	agactatagt	ttatcggcat	180
gccgtagctg	ataagtctat	gttgtatata	acggaaagca	gcgcgggtgc	gacgacttct	240
ttogtatata	aattattatct	ttacacggca	caaaagaccg	atgaagtttt	tttagaagac	300
attaaaaatg	gttatgaacc	tttccttgtc	accaccgata	ctggcgtgaa	agtttagcatt	360
gaagacagaa	cgatttttct	taaagtaagc	ggggatatatt	ttaaatttaa	taatatcgta	420
ggctctgcct	ttatttatct	caattcgtcc	cccttctaa			459

<210> 5467

<211> 372

<212> DNA

<213> Enterobacter cloacae

<400> 5467

ttttattcca	gagccattaa	cggggtaaga	cgagtgatta	acggagcggg	aatgaacgac	60
gttggggaac	aggcgggtgca	aacagaacag	ctcgogaaga	ccatgcttca	gcaggctctac	120
gccctgctgg	cccggcacia	catcatcccc	aacgggttac	aggagcagat	gctgacctcc	180
cacgttcgcg	caatggcgca	ccggtccgtg	accggcgagc	cgctgccgga	ggttgaagca	240
gagctgttcg	acgaaatttc	accagattca	atgcaacttg	cccgtgaagt	ggtagcgag	300
ttcggcaacc	ttcctgatga	agaggcctgg	ctgctctccg	ttcacttcga	agtcgcgaaa	360
gacaaccttt	aa					372

<210> 5468

<211> 357

<212> DNA

<213> Enterobacter cloacae

<400> 5468

agaagagctg	ggcgagcgtc	tggtacaggc	gtggcagaag	aaatacggcg	cgtaagcatg	60
aaagaacagt	tcacaaccac	ggtgagagtg	aaggggaagg	gcgacgcaa	agcgcgcgcc	120
tttgcgacg	cgtcaacca	cgttcaggcc	gcggtgatga	aagcctcacc	gcatacttta	180
ctgcgtattg	agccacagga	tgtgcaggtc	gttcaggcgc	aagaagcggg	gcgaaaagaa	240
gcgtttctgt	tcttctttct	gcgcccggaa	agacgcacct	acagcgtgga	gctggatgtg	300
accgtcaacg	tgacagccat	caatctcgac	cagggtggatt	tcgtcacgca	acgctga	357

<210> 5469

<211> 240

<212> DNA

<213> Enterobacter cloacae

<400> 5469

ccactggtgc	tgatctctcc	aggcgacgca	ccgggcgggg	gcaacagcag	agagaagatt	60
agccagcgca	ccggcatccg	ggcgattgct	tgccagacgc	aaacgcagcg	cgttcgccag	120

cgtcaacagg gtatcgacct ctctgttttg cgctgcggta acctgaaaag tgttgctgaa 180
cgtatcctgc gcgtagtcaa agcagagcgt atcggcgggc atctccagct caccgcgctaa 240

<210> 5470

<211> 201

<212> DNA

<213> Enterobacter cloacae

<400> 5470

togagaagat cctcaataaa gcggtggccg accataccgt taccgatgat agcggagtct 60
gactttgatc attattgcct cgatttcctt tcaataattg cctacgttaa cgattcagca 120
ggggcactta ttgatgcaaa tcagatacgc cttcacatac cccttagggg gtatatctat 180
gatttgctcag gattgttata a 201

<210> 5471

<211> 279

<212> DNA

<213> Enterobacter cloacae

<400> 5471

gagaagaagc tgatccatgt gagcttgatg cgattgctgt tagtcatgtc tggcctgtta 60
aaagtaaaga aaaacgcaat gactgcgttt gagcgggcag atttttagtcg cgaaagtgat 120
ctaattaaat cttttcagaa aattttgagc acaattgcag gttttaacgt gatgcagatc 180
acattatatt gcggggtgaa caatcgtttg cgcggtaata attgtttcaa tttggtaaaa 240
ttaggtaaaa gactggctctg ggttcatact gctctttaa 279

<210> 5472

<211> 183

<212> DNA

<213> Enterobacter cloacae

<400> 5472

ttggcgtcag aacagttcgt gcgtctcgcc gttatcaatg atctctgtac ccacctcatg 60
caccgcctgc gtggttggtt gcgtaccctc gatgaaatac tcggcacggc tattaccgcc 120
attcgcgagc tgtccagtgc tgcggtaaat attgatcgtg acaatgcccg gcggaggcgt 180
tag 183

<210> 5473

<211> 399

<212> DNA

<213> Enterobacter cloacae

<400> 5473

gagcgtata ttcatagact ctttattttt ttaaccgtct cggcaaattgc tatgggcaag 60
tttattattt acatgctgaa tatattattc tgtggttatg tactggctac atgcctcatt 120
tcttttggtta gttttgataa ctgggaggac cgtacaatcg caataacaat catattagga 180
agtgcacaac ttattgogac attacttaat ogggcattgc ctcataagtt acatatttta 240
gggggatatag ctgaactgat agaaggctcg ctattagtga ttggcgcaat tgtatgtctg 300
gatgtgtttg aaccctggcc tatgaagatt attggaatgt ttgcgtgggt tatttttatg 360
atgtttcggc catcatttac gaaaaggaat aaagaatga 399

<210> 5474

<211> 213

<212> DNA

<213> Enterobacter cloacae

<400> 5474

cttatcgcaa ccaacgagga ggtattttatg acgattcgca acaatcggac agaaatttcg 60
ctggctcttg gtgaagcgtt tttagacatc gtgcaaaaag gccatgaagt atcgcgagaa 120
aatctcgccc aggcgatgaa aatcaaagcg gagaaagagc gcgacgacga gcggcttctt 180
aactactgga aggcgtgtaa tatgctggtt tga 213

<210> 5475
 <211> 450
 <212> DNA
 <213> Enterobacter cloacae

<400> 5475
 cgctttctgg ggggcgctgg gctgcagctg ctttgcattc tgatgaaaaa caccactatg 60
 ccgccccgga tcgacctggg gctgttcttc cttcgctga ccggcagcct gctgctgctg 120
 tacgtccacg gcctgccgaa ggtgctgcac ttcagcgaag agctgacgcg cattgaagat 180
 ccgttcggct tcggtcctta cggcagcctg atcccggcga ttgtcgccga ggtgatctgc 240
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 ctgctgggtg cgatgctggc ggtccaccgc aactggctga ttgccgaagg gcagtttggc 360
 tggtgctgc tgattatctt caccaccctt gccctcaccg ggccgggcca gtggcggtg 420
 cagcgtaagg cagcggagag gttcgcata 450

<210> 5476
 <211> 303
 <212> DNA
 <213> Enterobacter cloacae

<400> 5476
 catgtaggcg ggcgtgcgc cagacgcggc aagccgggac tgggagaagg cgtcggaggt 60
 gccgcaggaa agaccgaagc tgcacagacg gcaggtggcg tcgtgatgaa cgaagatcgc 120
 ccgggttttg atatgcctgt ggatcaggtt gtgctgatgc atctggcgca ggggaccgca 180
 gatgcggatc gccatctcga taaagcgggc gatcccgaa atcgccctac ctgcccggca 240
 cgccagcagt tcaaagcaga atggcgcgta gaccagcgca aaacgtccgc ggtactgggt 300
 tga 303

<210> 5477
 <211> 303
 <212> DNA
 <213> Enterobacter cloacae

<400> 5477
 cgccggttcc ggcctcgtaa ttcccgtcgg cgggctggtc cctcatccgg ctgcgcgctg 60
 cctctttctc tggagttcac aatgagtact gggctgatat ccttgcggc aggcgtattg 120
 attggcctga tgtatgcctg gctgaagggt cgctccccgc cgccgcccgc gctggcgctg 180
 attggcctgc tggggatgct ggcgggtgaa caggcgatgc gccatctttt atcccgcgat 240
 aatccggctg ccgtgcagggt gacggttccc caggttcaac acccgaccgg agcgtcatca 300
 tga 303

<210> 5478
 <211> 360
 <212> DNA
 <213> Enterobacter cloacae

<400> 5478
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 ttagtcagac gctataacgg cgtttatcta atgaataacg aagagaagca aaaattactg 120
 aatgcaaaaa ctgatttgga tactgacatg cagcttgatg tcaactgaagc agaagatttg 180
 atggacgagt tttttaaaaga atttaattgt gatagaggga attttaacat aaacacctac 240
 tatcctgatg agcctttttc atggaatcca ttcaaaaaat tcccagtggg gatggttcca 300
 gatttcacta ttggaatgct tatcgaatcc gcaaaagcgg gcaaatgggt atacgactaa 360

<210> 5479
 <211> 462
 <212> DNA
 <213> Enterobacter cloacae

<400> 5479

actatggaca	caacagaaga	actaaatgaa	acgtattttt	atgctggcag	aaccaatctt	60
accgcggcag	gacttttttt	tatgatctac	tgtgaatcaa	ttgccgatca	ttttggtatt	120
gacgatgtgg	caggaattgc	tgcgttatac	agtggtgcta	ataatcaaac	gactagaaag	180
aaacccgcgg	gagctacgga	aggaacgtcc	cgagcctcga	aagccatgag	gaactatttc	240
aaacaggcga	aattttccta	tggcattaag	ctgcctacct	gggttggtgg	gtacactccg	300
tggacagtaa	agtgtcgaat	ggtatcgaaa	gtgagtgcgt	ttgttggcag	gacaataccg	360
ttaataggca	tagtgatatt	agtcgctgat	gtatcactaa	tcacctatgc	tgcaatacgt	420
gattataatc	gaattgcgcg	gggcagcgac	aaactatggt	ag		462

<210> 5480

<211> 318

<212> DNA

<213> Enterobacter cloacae

<400> 5480

tccggctgcc	gtgcagggtga	cggttcccca	cgttcaacac	ccgaccggag	cgatcatcatg	60
aaggcctgga	ttatttcgct	ggtgtgcggg	gcgcgggctg	gggtacttta	cgccctgctc	120
gacgtgcatt	ccccggcgcc	gcgggtcgtc	gcgctgcttg	gcctgttcgg	catgctggtg	180
ggtgaacagc	tgatccccat	cggacggcgt	ctggtgagcc	gcgaaccgct	gaccctggcc	240
tggtttcgtc	atgaatgcgt	accgaagatc	agtggtagcc	cgccccagc	gcccgcgaag	300
gaaagccgcg	acgcgtaa					318

<210> 5481

<211> 327

<212> DNA

<213> Enterobacter cloacae

<400> 5481

tgtttcaaaa	tgctaataga	gcgtttaagc	cttaatttat	gcgctacagt	taatttcgtg	60
caacaggcaa	ataaccgaaa	caggagaata	attatggtag	ataaaaagcg	aattaaggat	120
cacactcagg	ttgtcgccag	ctgcggaaag	cacgtcgggg	ttgtggacca	tcttgatggt	180
gagcgtatca	agcttgcgaa	gagcgatccg	gaatcggggc	gcaagcacca	ttttattcct	240
ctcggtggg	ttgataaagt	cgaagataat	aaagtgtgcc	tgaccaaaaa	ccataaagag	300
gtttttgctg	agtggcagga	agcataa				327

<210> 5482

<211> 645

<212> DNA

<213> Enterobacter cloacae

<400> 5482

ttcagtcctt	ttcattttaca	ggaaattatt	gaccgcgtcca	tgatgaaata	cattagagat	60
agccttgcat	taagtgcctt	ggttaaaagt	aaaatggcga	ccgatgatct	caaccagctt	120
gaaacattaa	aagaacagtt	aaaagatcgg	ttcggcgctc	ctgtgggcgt	ccatatgaca	180
ggaattcctt	tggcagtgag	cacgttaactg	gctatttttt	gctacgccat	gctgcaagtg	240
tccctctggt	tgttgctggt	tcgctggctc	ggcttaccgc	aatttaaggt	tatgatggga	300
gtattcattg	cagcgattgt	atatgtctg	gtagtgatga	gcacgatggt	tctgactaca	360
cgaggttctt	tacctggata	taaaactgat	attttcgtca	ttacgctgac	aggcataatg	420
agcatcattt	atttcacatg	gaacgggatt	tcgcttttat	tcggccctgt	tgagaactac	480
acaccgcaaa	taacctcttt	gctggggctg	ggatttttct	ttctgaacat	tatgtggatg	540
aattcatcga	ttttttaccg	ctccatcgcg	ctaacgctac	ataatcgggt	ctggcgtaag	600
cagctcaaaa	tcgaggcaag	gccaatgtca	cacctcaaac	ggtga		645

<210> 5483

<211> 183

<212> DNA

<213> Enterobacter cloacae

<400> 5483

caacaaggag	ttttaacatt	tgatgctgga	agaattgttg	cagctaacct	aatagcaggc	60
aaggagacaa	ccgtcccta	attcgctttt	aagattaata	ttaagagcaa	agttttaagg	120

ttttcggatt ttctttatat tgacaaaata gatcaccgga ccatttattg cgatatttcc 180
taa 183

<210> 5484

<211> 1059

<212> DNA

<213> Enterobacter cloacae

<400> 5484

acactattcg	gaacattcct	aattttaagt	gttaacagga	cctttactct	tgttttatta	60
acaatcaaca	tttcacacgg	acggagagat	gaagtgcacat	tcacaggaca	attttcaaag	120
gatcttccag	attacgcact	cgacgcagct	cttggctctg	cctctggcgg	cgatataaat	180
ttcacagcac	ttgcagggtca	actggactgt	agcagaaatt	ttagccaggc	cgggattatc	240
tactcagacg	gtacacgtca	gtggctagta	cggccatcaa	gaaggattgc	tacaccaaac	300
gaaagctcgg	ttagtcatgt	agtcataacc	aaagtaaattg	ccgcattagt	taaccctggt	360
caggcaacaa	cggcgacgat	taattccctt	tccttggaac	ctgaaattgg	ttcaacggcc	420
atttcctgcg	gagccgcaat	tcttactggt	gtacttgccg	caggggcccgg	tatggctata	480
cctctcactg	caggggtcttc	cgggtctata	gcccgtgtga	ttttagccgg	tggtgtagca	540
actggaattc	aattgtcaaa	tgggcttggc	cgactatcgt	tgattgctat	gaatcatgat	600
gattacgttg	cgtggatgga	ttcccaggag	tggtatacag	caaccaacac	agccctggat	660
gcgatttctc	ttgccggggc	tgctgcgggt	ttaaaaagcg	ctgcattaac	atatgcctt	720
cttaaccggt	catcgctctga	gagtttgctc	tccttattac	aaaaaatgag	ccgggcccac	780
cgtacgcgat	taacagagga	gattattcgt	atccgcaatc	ccggcatctc	gaattcaggt	840
gtaaaagcag	caatgaaggc	aggcgtgtat	cccaaacggt	atccgtcaga	agcgttgacg	900
ttgctcttac	agcgtgagtt	gctgaatacc	atttcaaatt	cttctgcctt	cggttgaagt	960
gccatctcag	gaaatatcag	aaatccacag	aatggtgcac	aaacgggtaa	atacatTTTT	1020
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<210> 5485

<211> 225

<212> DNA

<213> Enterobacter cloacae

<400> 5485

ctatatctga	aaaccatgaa	aaactttgac	aacgaaatga	gaattttctc	tctaattattt	60
tctgttttta	taattgagct	cgtatcattt	tactttaaca	tatcaggggg	ccctacggct	120
gtaatgagtg	ctatcgttgt	atcacaaagt	tttgctggcg	ctcaatattt	aaaagctcgt	180
aatcggacaa	tcggcagctc	tcaccaacgg	ccggaaggtc	agatt		225

<210> 5486

<211> 186

<212> DNA

<213> Enterobacter cloacae

<400> 5486

cctttgagaa	ttcacccaaa	gcgctcgcgg	gctttcagcg	ttaagctgat	ttaccgcccgg	60
tggggaattt	cgccccgcc	tgagaataag	cgagataact	ataacgctat	tgattacct	120
gggcaatgca	taagcttcaa	acaattttgt	ttaacccgcg	gcatgacacg	ctacaatagg	180
cactaa						186

<210> 5487

<211> 273

<212> DNA

<213> Enterobacter cloacae

<400> 5487

cttcacccgc	gcgtcgatga	gatcgacgat	gtcggttctg	gcaagcaggt	cattgatgaa	60
aacgcgtggg	attcttccgg	ccatatgccc	caaaaattta	agcgacttat	aaacgaaaac	120
aagccgcgca	ttccttccgg	aagcacggcc	ttacgactac	aactctgtct	gtcaattgag	180
ggctgtggcc	ctcaacagat	tagtacagac	gagtacggcg	tgcgttttcg	cgagccagtt	240
tcttcgcgtg	acgtttcaca	gcggaagctt	tag			273

<210> 5488

<211> 363

<212> DNA

<213> *Enterobacter cloacae*

<400> 5488

atgaaaaaaaa	taatcgtgct	atcacttctg	ggcgtagtg	ttgcggtggg	tgtcgcggcc	60
agcatctatt	caaatgaaga	accagaatat	attcagtcag	caaaaagccg	tgtcggatcg	120
tatttaacca	gogattacgg	acgtgtcgaa	tgtaatagca	cccaggtaag	tgaagatcgc	180
tgggagctgg	gctgtaccaa	taaggcgaga	ggcaaaacct	tccagttcgc	cgtttaccga	240
cccagacagg	caccgtatgg	ggtctctcgt	gcgtttttatc	tcgaagcgat	taatgatgat	300
gcccgccaga	gtgcagatca	ggggctgatg	cgttatctgc	aaattaatac	caaagcgggt	360
taa						363

<210> 5489

<211> 312

<212> DNA

<213> *Enterobacter cloacae*

<400> 5489

ccaatattct	ccaagctcat	atcgtaacg	cgtgtaagat	atatggtcat	aaagggcagc	60
gttgccccgc	ggccaattgt	taataacaat	gacgatgcc	gcagcgtgc	ggttgagcgc	120
ctgattgatg	gtttcatttt	cctgcccagc	aaatgcttat	gcttttttgt	tgtgttatta	180
caggattatc	atgggatcgg	cagcttgat	agcacccaat	ttatccgcaa	gtgcttctca	240
tcagtaccag	aattaatgat	cttctcgcgg	ggctatTTTT	tctgttacct	tgaagtgttt	300
acaaaatttt	aa					312

<210> 5490

<211> 660

<212> DNA

<213> *Enterobacter cloacae*

<400> 5490

aaaggtgaag	gaatacatta	tcggtactat	ccagtcactg	gcgggtttttt	gatgaaaatt	60
ctgcacttgt	taacccgaca	cgtttctttac	gagctcctgc	aacacggaaa	acggattgag	120
gacgctattg	gcggtcatga	caatgactta	ttaaaccatt	ccacaccgga	actggagcgg	180
tattttttcac	gcccgtttag	tgagctgcca	cggaaaaaatg	cttatccggg	agcgatatta	240
ttaccgctat	ttctgggtgat	ttttgcgttt	aatttgctgc	catttctcca	gacaatatcc	300
agtatgtcgc	caacgctaca	tacactcagt	ttttttgtcc	catcgctagc	gatactttatc	360
ttcctgatgc	tcgcgagtg	cttccttgcc	cggggataca	cttcaggggct	atcagggttc	420
ttagcgcttt	tcattcatcct	gctgacatta	acggtactgc	aatggcttca	ctatctgacc	480
atctctgatg	gcagtagctg	gcagctgac	attgcaacga	tcgctttggg	aattagccgt	540
atggtgttaa	acagtcgagg	ctttgtgctg	ttcacgctat	attgtcgttc	gaagcgtctt	600
gccacgctgg	ctcgcatcat	gcgcctaaag	agcggcaagg	ataatgtgag	gaacacatga	660

<210> 5491

<211> 234

<212> DNA

<213> *Enterobacter cloacae*

<400> 5491

cacgattatt	tttttcattt	attcgatcca	atccttagcc	agaaaaatct	tattgtaaat	60
gatttcccaa	taaattctagt	tgctctttgc	ataccagaaa	tgggagttaa	caacgtcgat	120
atcgctttta	agaatagtct	taagcgcgtt	ttattgcgac	cacaattttt	gacactctat	180
tttctcaaat	ttaaagagtc	gaataattac	tctatgaaat	tatccctacg	atga	234

<210> 5492

<211> 231

<212> DNA

<213> *Enterobacter cloacae*

<400> 5492
aaagtgaaga tagagtgtcg agtagcgctg cgcttaccgg acctggaaaa ccctaataccc 60
aggcgggta aggcgaagcc gtcccccgcc aaaaccaaca ccttagtggt gcaacatctc 120
ctccaccacc tgctccttgt acatctcatt cgggtagtag gtcggccagt tatccatctc 180
tttcagcagc gcctcgtggg aggtgttgcc cataaagata tggaagtgtg a 231

<210> 5493
<211> 189
<212> DNA
<213> Enterobacter cloacae

<400> 5493
cccgtcaaag aagtcaaagt gccaccaggc gcggcggaat tcaccgtccg ttaccacatg 60
cagaccgcag gcgcactgct gttcgacaac atggcggaat gcctcgtcct caaccgcgcg 120
aagctgaccg gcacgatctt caccgctggc aaattgcaga cgggcctgtt taacagagtc 180
cgggcgtaa 189

<210> 5494
<211> 222
<212> DNA
<213> Enterobacter cloacae

<400> 5494
aaaactgccg actacatcgg cgcggtacgg ggcgtggtgt cgctgcatgg aaatctcctc 60
tgtctgtcgg cgtaatttgc ccacagtgat aattcatttc ttgaacattt agacttctgg 120
atgtctaaac gtccataaaa gatgtcatac cggctcgccg ccgacaaacg agaaaatttc 180
atctgtgttg aaataaattc atgttcacag ggcgggcgat ga 222

<210> 5495
<211> 339
<212> DNA
<213> Enterobacter cloacae

<400> 5495
atgcagcgcg ccgggcagat gcgcgcgggc aaaatgttca ggcttcccga caacgtgcag 60
cagaacaaaag tctgtctcac cgctggatac cgctgtagtg acatcggcgc agtccgtctc 120
gacgctcaga cgacgcagaa aatgccccac ggcttcctgc ggctcagcag ccggaatttc 180
agtaacatag ctcatgaatc ttctcatttt gtggtgtttg tgttaacact actctatccc 240
ttaattcaga acatgaatgc gtccgcctat gccagaaaac agcaaaaaga tgacaaactt 300
aagacatccc tcgcgcgcgc cggctcgtgtt ggcataatga 339

<210> 5496
<211> 249
<212> DNA
<213> Enterobacter cloacae

<400> 5496
caccagaaga ggatcgacgc tgagaatacg ccgagccatg accagtattt tacgggtgtc 60
atgttattca tcatagggac atcagaattt aattatttaa ggttgcgagg tctgcctcgc 120
ttctatattg ctgatgtgta ttatttaagg agtacaaaag cgcacagtct ttattcagac 180
tatttgcac attacgcaaa attcaaaatt attgtttttt gggttcgtct tccgcgaaca 240
catcaataa 249

<210> 5497
<211> 213
<212> DNA
<213> Enterobacter cloacae

<400> 5497
acaaccattg tttcaccatc ggcgagagtc tottccgctg cgtgtgcgct ctggtatagc 60

gttgaaaaaa	tggcgagcgt	aagtgtagcc	ggggcaaatc	ttattatggt	attcatcaac	120
tcattttccat	ttgttaaaaa	tgcgatgacg	aatattaatg	atagtcattc	tcattacaat	180
aaagtgcacg	caatctccat	aaaatcttca	tga			213

<210> 5498

<211> 252

<212> DNA

<213> Enterobacter cloacae

<400> 5498

agcctggctg	gcggctcttct	ttggctctgc	cctgttctgg	atggtggttg	ctcttcttgt	60
ctggaattac	tggggttgat	tatggctcatg	acggtgcgta	cagaagcgag	aaaagagatg	120
tgtcagcttc	gtgacaatgc	tcacaaaagcc	cgtaaggcgc	cagcaaccag	cgtgccagct	180
tcctggaaac	tgacgccaca	gcagcaggcc	tttattgatg	tgttcgcgga	agacgaaccc	240
aaaaaacaat	aa					252

<210> 5499

<211> 297

<212> DNA

<213> Enterobacter cloacae

<400> 5499

ctcctgatcc	atgatattgc	ctctgtaatt	attgtggtga	caaaagaagc	ataccctcag	60
cogatccgcc	tgaccacgtc	aaaaacgagg	tttggccacc	ctcttttcaa	cacgttatatt	120
cgccagacac	ttaagattat	tccgaataca	gaagcaccgc	ttgcgacgat	atatttttgc	180
gttgtgtcaa	ctcttgtaat	aattcacgcc	acgttcacat	taggattatt	agctaagcga	240
actcccaaca	tccagattta	tttctcccta	accagtggat	ttaccgtccg	tttttaa	297

<210> 5500

<211> 426

<212> DNA

<213> Enterobacter cloacae

<400> 5500

gtccagttat	ttccccggag	tgattcgatg	aagagcctgc	cgttcttttt	cgctgtatta	60
accctcagca	cattaacagc	ctgtagttct	ccccaaccag	acaatgttga	aaaaattaat	120
catctgcaaa	ttccactggt	gttgccgggg	gaaaaatcgc	cgcaggtaca	gatatcgcat	180
atcgctctc	tttatcagga	aaataaacag	cagatcgaga	ccctaacgcg	cagcgtaaaa	240
tcacagtatc	tacaggacac	caccgcaaaa	gaaatttttg	ttgcggacag	tgccgttcaa	300
cgcgtctatg	cctcgctgac	caagctggaa	cagctagata	tggttaacca	gcaataacctg	360
aaagataata	atgtcacggg	cctgcaaaaat	attcatatcg	ttcttgaacc	attattcacc	420
agctga						426

<210> 5501

<211> 843

<212> DNA

<213> Enterobacter cloacae

<400> 5501

aatgaccaga	cacatttttg	gaaggagtct	ttaatggata	ttgcgttgct	taacaggggc	60
tggaacagaa	catggtcaga	taccatgggtg	aatctagagg	cccggaaact	cgtcgaaaca	120
gcaaaccggc	tgtcagcatt	ctattttgcaa	gatggtctta	cacgtatcaa	gtttgtcgaa	180
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gaatgcattg	catgcatcaa	aaatctgcgt	gctgaaacag	ataatctaca	cgaacaagaa	300
cgctgttaa	gaaccagagc	cgcacagctt	tacgcgaagg	tcgagtttgt	taaggaaaat	360
aataaaaatcg	tcggttatgt	tatatccgcc	gtaaacgtgg	tgctatcagg	cgtggttctc	420
tttggtgggt	ttatgatgtt	atccactatg	gggccgattg	gtatgctggc	tggggcagtc	480
ctgattgccg	atggaatgaa	cggattaaag	aaagaagtgc	tcaactttga	tcagccagaa	540
ggacataaac	cctcgcaagg	tatcattgct	gactccgcga	tgcatacggc	ccagttcatg	600
ggattttaatc	ctaacacggg	cttggtctctc	tataatgggtg	ttactctcgg	tgccagtggtg	660
tacagcattg	taggactcgc	togaataaact	ggagcctgga	gattatttgc	ctggcttcca	720

cacgattact	atcgcaaagt	cagcacaatg	agcactccta	agctaacaat	gaagattgtc	780
ggttatgggtg	ttaaagcaaa	agtgattttc	gatctattga	caaccgaaaa	tggaaccagt	840
ttaa						843

<210> 5502

<211> 372

<212> DNA

<213> Enterobacter cloacae

<400> 5502

ttgcttgacac	aatcagcgat	tgggaaaaaca	cttctggggag	ataaggggacg	agacgatatg	60
aaagtgaactg	atgaggcttt	gttacgttca	gggtttacgc	agcccgaatt	gcagaagata	120
aaaagcaaca	ttgaaaaata	tggaggaacg	cttggagagg	ccataaatga	cctcgctagg	180
cgatttggtta	ccttggcggg	agtgggtggct	gtgtgtgcct	taatcctact	gctacttata	240
gtcttcagct	cacctgatag	agcagttgca	tgggggctgg	cgatgatctt	tgggggttgc	300
attatgtcct	tcgcgcagcc	gccggtaatt	tcctataaat	cctggcggtta	ccgaaaaaact	360
atcaaggatt	aa					372

<210> 5503

<211> 204

<212> DNA

<213> Enterobacter cloacae

<400> 5503

gttgacacatt	tcctgtaccc	tggataccct	gagattaatc	ctaataactc	aagggtgagt	60
atggctaccg	ggaagagaaa	gaaccaaaag	gaatcacctg	aagaagagtt	agatcgcttg	120
ctggatgagc	ttgaactcac	agaggagcaa	cgggagttta	tcgaatccat	gcgggaggat	180
aagggcgata	ccagtagtga	gtaa				204

<210> 5504

<211> 219

<212> DNA

<213> Enterobacter cloacae

<400> 5504

tccgtgaagg	agacgatggg	cagcttcggc	gatgccgcgc	cggttcgcgg	gctgttgggg	60
tcgttaaaca	acagttttgc	cagctggctg	ctggaagcgt	catctgacgg	tgccgcgaaa	120
ccgaacgttg	ataacgacag	cagaagtaag	gctattaagg	ctctcatgtt	attttccttt	180
tgcacgcgac	aggggtgctc	gcaccgcttc	gcggcttaa			219

<210> 5505

<211> 570

<212> DNA

<213> Enterobacter cloacae

<400> 5505

gtcttaaaag	cattttcaca	gagaaatcaa	aaatttcggc	aattaagcga	aacggtgacg	60
actgccatgg	aaccaaaaaa	tgaaaaagtg	cctgggataa	aagagagtta	tcgtttactg	120
acgtttgagt	acgcatttcg	tcagggtggg	tttattgtgc	tgttagctat	tatcgtggcg	180
gcaattgccg	ggctgttttc	aagcgggtgtg	gtcagcgacg	tggagaaaaac	aaacgatgca	240
aaatccctgg	ctctgagcta	tgagcgcttc	ggtcgcgcgc	agaccgaatc	gcggatggcg	300
ctgacgtttc	cggtgacgtc	tgaggggaaa	tataccctca	gcctgaccag	cgaaagcagc	360
gacgcgtatg	agcccggcag	cgtctggcca	caaccggaca	gcattgtacag	ccgggggaat	420
acctgttttc	tcgtctacga	tcgtttacaa	cagaccgata	aattttaccgt	tctattattc	480
atcacgccgt	caaaagcagg	gaagtggaca	aacagcatcc	gcgtaaaaaa	cgagccagat	540
atccgtttct	ggcagtttat	ttacccctag				570

<210> 5506

<211> 366

<212> DNA

<213> Enterobacter cloacae

<400> 5506
 aaactaccac cagaaacgcc aacttcgggt ggcagactga accggttttg cgtaccgacc 60
 atatggaaaa tcggcgcttc aaaagaagcc ccggttcagt ccaccataat agaagatacg 120
 gattataccg cagctaaaaa aagagtgaac gaaaccaatg atgttgcggt agcaacatct 180
 ttccatatgt gtgtaatcag gacgccaatc ccgacacctg attttgcagg tgcgccgcca 240
 ttttattact gtgaatttat ccagcaactg acttcgaaag aatctggaaa gcgcctcgca 300
 aaattcctct gcggtctgtt gccctcacco caaccctctc ccacggggag agggagaaaa 360
 cactaa 366

<210> 5507
 <211> 633
 <212> DNA
 <213> Enterobacter cloacae

<220>
 <221>unsure
 <222>(80)

<400> 5507
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 ctttgccgca tgctgggtgt cggcctgtat atgcacgtct actggaacct gcgccacccg 180
 gcacctgaac cgatcaacgc cagcggttgc aaaccggaaa cgcagctttc ggaaatgcat 240
 tacgtgtacg tgagtaaacc gttcccgcat ccgcagccta aagttgcgcc agtgcattgt 300
 gatgttccac cgatgcagga tctgccgac agcagtgatg atgccgactg gcagcaggcg 360
 cccgagggcg cgggtgcgca cgatacctcg cgggatacct tacccggaac cgaggcgcat 420
 gagcacgata tcgccccgcg cagcacgagc agtgaagagt catcattaac ggaattatct 480
 aagcaggcat taaaagagca ggagcaggat tattctcaag gaaaaattcc cgcgccgccg 540
 gttgacgaaa cgcaggataa ttacaagcg agtgtaaaaa acagtggaaa tagccgttct 600
 cctttgagtg agaaaggaga acggcgggag tag 633

<210> 5508
 <211> 186
 <212> DNA
 <213> Enterobacter cloacae

<400> 5508
 cgtcctgaag tttatcctgt cgtctccctt ttacgaatgc gctttccggt cggttggtacc 60
 gtgacgcttg ggcaatacgc tgagactggt ttgctgcggt ttaaacgcgc aattctttac 120
 ttaattgagg aatttcggca ttatcctgcc ggttcaaaac ttggtagtga taccacagag 180
 gattag 186

<210> 5509
 <211> 477
 <212> DNA
 <213> Enterobacter cloacae

<220>
 <221>unsure
 <222>(187)

<400> 5509
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 agcgaactct cctcaaccc cgtatctcca acccttgccg agcgtgcaa actgctcacc 120
 gaaatcctcc tcgactgcaa atcaacttcg caaacgcagc ccggttgccg ttgcttcgga 180
 gcttaacttg aagaggtgaa atccggcctc acagagtcaa tgcgtgattt tcaggtggtt 240
 gaatttgagg acgacgcgga gcaaccgcga caaaaagagt ggttgctgga agataccgaa 300
 acgaaatgcg actactgccg ggcggttaaac catgtgctgc tggatcgca tgttgaccgc 360
 gatatgctgc cgcacctgac gggactgctg catgacatca cccacgcgat ggctgaagat 420
 ttaatogtac coatagaacc gtgcatgact atacatctgc cgacacagcc aactaa 477

<210> 5510
 <211> 183
 <212> DNA
 <213> Enterobacter cloacae

<400> 5510
 gagcgttggt ccttcttccg cctgggtgagc atattgaatt tatatgcaat agaaatgatt 60
 aagtattatt ttaatcacia aaaaaagcgg ataaccatc aggttaccgc ctccatgaat 120
 accgttttat gcatttgctg ggttaattcc tgcgctcaaa cgctaacgcc ttacgctcga 180
 taa 183

<210> 5511
 <211> 192
 <212> DNA
 <213> Enterobacter cloacae

<400> 5511
 tcacacctgt taaagttata ttttagatac atgtttaagg ttatgcctgt gccacagcag 60
 agaaaagtgc tttcttatac taagtggagg gttattgatt tagcgcaatt ttggcggcag 120
 gttcactacc gccaaagcag tatcaggctg agaagaacgc catcagaatg ggtaccagca 180
 ggctcagaat aa 192

<210> 5512
 <211> 2325
 <212> DNA
 <213> Enterobacter cloacae

<400> 5512
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 gccgcgggat gccctgacct gctggggcgtg ctgctgtcgc tgctgcctgg cgcgcggcgtg 120
 aacagcagcg tgctcgccat gctgccgaaa cagacgctcg gcgcgatccc tcccgtcttc 180
 aacgacggat ttatgcagcg cctcgaccgc cagctcatct ggctggtcag ccccgccaaa 240
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 agtgctgtaa aagggtccgt ggatgccgcc gggcaacagg cctggggaga tttctctcgg 360
 cagcaccgca atggcctggg cgatccggcc acccgcgccc gcctgcaaaa cggcgggtgaa 420
 gcgcaggctc agtggatcct gtcccagctc tactccgctt tttccggcgt gagcggcaag 480
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 agccagaaga tgcagctgat ggacgactgg ctggtgacaa aagatgcggc cgggaactac 600
 tgggtatctgc tacacggcga gctggcgggc tgcctgtttg acatgcagca aaccaccag 660
 ctggtgacca cctcaacgc gttgcagcag acgctgaaaa gccagtatcc acaggcgcag 720
 ctgctctcgc gcgggacggg gttctacagc gattacgcca gccagcagc taaaaacgat 780
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 acggctcgtg cgctcctgct gttcgggtgag ctgcacctga tgacgctggg gatgagcatg 960
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actcaggcca	tcagcagctt	tggcattgtg	ctggtgagcg	gtatcttcac	cgcgttcctg	2280
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<210> 5513

<211> 312

<212> DNA

<213> Enterobacter cloacae

<400> 5513

ccgggtcacc	ggcgacgac	agcagcggtt	cgccactctg	catgttacgg	acggttttac	60
gcaccatcat	taccggctcc	gggcaacgga	ggccctgagc	atcaagcgtg	tggtctgggc	120
tggaaaacag	gtcggtcatt	ttctttctcg	tcaggtaaaa	acggctgtag	tttacgcccc	180
gtatatgcca	atgcaaacca	ggttaacgat	tgcgtgaaaa	ttagccattg	caaagtgtcg	240
tcaaagcagt	atcatgcggc	ggctttattg	ggttccctca	ccccaaatat	taatcaaaaa	300
ggtacaatat	ga					312

<210> 5514

<211> 375

<212> DNA

<213> Enterobacter cloacae

<400> 5514

ctgcgcagct	acaggagttg	tttcatgaag	atccctgaaa	tcgggcgcc	ccagcccgat	60
ccacagcacc	tgagataaac	cttttatctt	gatcctgacc	tgctctggtt	taagggacat	120
ttcgccgtac	agccgctgct	gccgggctg	gccagctcg	actgggtaac	gcattacgct	180
gcgcgcgtgg	cgccgggcta	ccgttttcac	agtattcaga	acgtgaagtt	cgcgcgcccg	240
ctgttgccgg	agaatacggg	cacgctgctc	cttgccctgg	agcccgaaag	cgagatgctg	300
accttttagct	accagcgcca	tgccggtaac	gagcgccaca	ccgccagcag	cggggaagatt	360
cgcttatgtc	agtaa					375

<210> 5515

<211> 183

<212> DNA

<213> Enterobacter cloacae

<400> 5515

agttgtaaag	ttttaaaaaa	acacatacaa	aacatgatgc	taagtgtgta	tcacacgctg	60
ttccaacatt	ataccttgat	gttcttgacg	gaactgcaat	ttacaggagg	aaaaaggtgt	120
ttttgtagtt	atctggcggt	acgtgacagt	gttggtcaga	tacttccacc	tcttcagagt	180
taa						183

<210> 5516

<211> 723

<212> DNA

<213> Enterobacter cloacae

<400> 5516

atgaaattta	cacttaccct	tatcgactgg	caggcaagag	cgccaggact	cagcgatgcc	60
gacgaatggc	aggcatggtc	acgcgggtct	gacgccatcg	atcccgctgc	accgctggcg	120
aaactgaccg	atctgcgat	gatgacggcc	cgcgcgctga	attcaggcag	caggctggcc	180
gtcgatcttg	gcctgatgat	gctgcgcaaa	caccgcctcg	atgccgtcgt	ctacagcagc	240
cgtcatgggg	agctggagcg	caattttcgt	attctccagg	ccctggcggc	agaacagccc	300
gtttccccca	ccgattttgc	catgtcggta	cacaactcgg	cggtcggcaa	tctcactatc	360
gccgcgcgtc	agcctgttgt	ctcttcgctg	gtttccgcgc	gtatggatac	cttccagcag	420
agcttggtcg	acgtgctgag	cctgctgcat	gcgggatact	cccgcgtatt	gctggtggat	480
ttcgacggtc	tgtgcctga	tttttatcac	gccgggttgc	caccgcagat	gcccgctctg	540

cctacgcgc	tggcgctggt	gattgaagcc	ggaaatacgc	tcagctgtga	aacgcacgtc	600
aaccgcacgc	ctgaagagcc	cgcgctgccg	caaagcctcc	agttcctgcg	ccattacctg	660
cgggacgagc	gccagttcac	cctgcccgggc	gagcgccctgc	tgtggcaatg	gacgcgccaa	720
tga						723

<210> 5517

<211> 819

<212> DNA

<213> Enterobacter cloacae

<400> 5517

cagaacaaca	aacgatttat	caggaagtct	ctgcgcttct	tattacgctg	tttgaaatcg	60
ccccggagga	tattaccctt	gaggcacgtc	tttacgagga	tctggacctc	gacagcattg	120
atgccgtcga	tatggtggtg	cacctgcaaa	agaaaacggg	ccataaaaatc	aagcctgaaa	180
ccttcaaagc	ggtgcgcacg	gtgcaggacg	tcgtggacgt	tgtggaacag	cttcagcgcg	240
acgcgtaacg	tgcgttcgat	tcgagttctt	cccgccctga	cggggctgat	gctgctggca	300
tggcggtttt	tgatcggttt	cgggctggcg	aataatagcc	tgcacgggat	actgcccgtg	360
atggcgctgg	tgctgctgat	gcgcgtctgc	caggcccgtc	ggcagggcgg	ccccctgcgt	420
tatctgttcg	taagcgtggc	gctggccggc	atagcgcttt	gcgcggcgag	ctacgtcctg	480
cacgcgcacc	agtgggtgct	gttatatccg	gtggtggtga	atctggtgat	gctggtgggtg	540
tttggcggtt	cgctgtggac	ggcaatgcc	gtcgtcgaac	ggctggcgcg	cctgcggtgaa	600
cgggacctct	cccccgctcg	ggtacgttac	acgcgccggg	ttaccacagg	ctggtgcggc	660
ttttttatta	tcaacggggc	gatcgcgctg	tttactgtat	tacatgccga	tatccgtctg	720
tggacactgt	ggaacgggat	gattgcctat	ctcctgatgg	gcacgctgat	ggctggcgag	780
tggctggtgc	gacaacgggt	gaagaaaaac	gatgcttaa			819

<210> 5518

<211> 759

<212> DNA

<213> Enterobacter cloacae

<400> 5518

aaaccgtctg	cgcctgcctt	atcaaattct	cgacgcgcaa	accgggaaac	gcaccaccac	60
cggctacacc	attcaggtgg	cgggtgaaaga	agcaagccgg	gagatgtgct	ttgtcagccc	120
ggccattctg	ttcgaacgca	tggggatcgc	gccatgaaat	ggataacgct	actcgcgctg	180
ctggtaagcc	cgctggtgaa	cgcggtcacg	ctggatgaac	tgcacacagc	gtttgcggag	240
caaccggtag	tgcgcgcaca	cttcgaacag	atacgcacga	tcaaggatat	gcctcagccc	300
ctgcgctcgc	agggggagat	gctaatacgc	cgcgacaatg	gcctgctgtg	ggatcaaaaa	360
gcgcggttcc	cgatgacgct	gctgctggat	gacaaacgga	tgggtgcagat	cgtcaacggg	420
cagtcgccgc	agaccattac	cgccgacact	aaccgcgaga	tgtttcagtt	caaccatctg	480
ctgcggggcg	tgttccaggc	cgaccgcaag	gtgctggaag	agaacttccg	catcgatttc	540
aaagacctgg	gcgaaggccg	ctggtcgctg	gtgctgacgc	cgtcaccac	gccgctggac	600
aagattttct	ccacccttga	tttgaagggc	gcgatctatc	tggaaatccat	tgcctgaac	660
gataagcagg	gcgacacgac	ggatatcgcc	ctctcccgc	accaactgac	gcccgcgcgc	720
ctgactgatg	cagaacgcc	gcgctttgcc	gcaccgtaa			759

<210> 5519

<211> 594

<212> DNA

<213> Enterobacter cloacae

<400> 5519

caaagagaac	ttaccatgac	cggtttctatt	cgcctggcgg	cagtgatgat	ggccctgttg	60
ctggcggggg	gtagccatcc	gacgaaccgc	gatgacgcgc	gccctcaggc	ctggctccag	120
cccggcaccc	gcgtcacgct	acccccgcgc	ggcatcacgc	ctgccatccg	cgcgacgacg	180
ttgcttaccg	gcagtttttaa	aggccagagc	cagtcgctgc	tggatgatgt	gaacgccgac	240
ggaaataaag	tgacgcttgc	cggcctctcc	tacgtcggga	tccgcctgtt	cctcgccacc	300
tacgacgaca	ccgggatcca	catcgagcag	tgggttgatg	tgcgcagct	gccgcccgc	360
agccaggtgc	tggccgacgt	gatgctgagc	cactggccgc	tcagcgctctg	gcagccgcag	420
ttgccgaaaag	gctggacgct	gaacgatact	gacaccagac	gcgaactgcg	caaccccgat	480
ggcaaaactgg	tcacggaaat	tgtctacctg	aaccgtaacg	gcaggcgcca	accgattagc	540

attgtgcagc acgcttttca ctaccacatc accattcaat atctgggtga ctga 594

<210> 5520

<211> 672

<212> DNA

<213> Enterobacter cloacae

<400> 5520

gacgtattta	tgaccaatat	gattgcccac	gaagccgtgg	cgaagtccag	cgtgctctct	60
gtctttgact	ttgatggtag	gttgacgcac	cacgacagtt	ttatcccgtt	cctgcgcttt	120
gcctttggca	agcgtacttt	tgctggccga	ctggtgcgca	tggccctgcc	tacgctgcac	180
tgtgtgcgcc	gcaagctgac	gcgagatgag	ctgaaagagg	tgttgatcaa	aaccttcttg	240
acgggggtgg	atgagcactg	gttacgtcag	caggcggaag	ccttctgtga	aaaatactgg	300
aacaagctga	tgcgcccggg	aggtgtgctg	gccgtcgcca	acgaggtcaa	ttccggtgcg	360
gaagtgcaga	tttgctctgc	ttccccggcg	ctggtattgc	agccgtgggc	cgataagctc	420
ggcattaagc	tgattggcac	gcagctggaa	gtgaaagacg	gcaagctgac	cgggcggatc	480
accggccaca	actgccgggtg	tgcccagaag	gtggcgaggc	tggagaaggt	gtatggggat	540
ttgaacgcgt	atcacctgcg	cgcttggggc	gacacgcgtg	gcgaccacga	gttgctggcg	600
gcggcgcagg	atccacactg	gcggcatttt	catcatccga	gcaagcgccg	aaattcacca	660
attaagggtt	ag					672

<210> 5521

<211> 717

<212> DNA

<213> Enterobacter cloacae

<220>

<221> unsure

<222> (520)

<400> 5521

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aaaataacttg	cgcttaaaact	cgaccatgct	gttactgcgg	tggccagaa	cgtcaaaaaca	120
caggtgaata	tgatagggaa	aggcgccact	cggtctgttg	attacgcctc	atgtttcact	180
gatgaataca	atgatgtttg	cctgagacag	aagagcgaa	acctacgctt	cagagatgcc	240
gtttataaat	tagtaagcgg	tgtggatgta	gtctatgaaa	tgttagact	gtatttttag	300
gaagttttca	aatacaaaaa	tcctaaacag	ttagagtata	ttaaacagcg	gctaattggt	360
gtaaatgtcc	acatcgctgc	ggttagcctt	accggtgccg	ggtttacatt	agccgttgcc	420
gcctgcgttc	gccttggtt	aaatatcagc	ctcgaattaa	gcgccattac	cggaagatgg	480
gcttcccag	gtattgcttt	tattgggctg	tatggggtan	tacagcaagc	cgccgatagc	540
gcgcacgcgc	tgtacgttga	atttcccggc	tggtactcgg	cactttatgc	tcaagggctt	600
gaaatgcttt	attttctcat	tgagcctgtg	tttcgctgga	cggacgcgac	acgtgcgcta	660
tgggcacctg	atgacgacat	cgcggatatc	atcaccaggt	tgatcagatt	acaatga	717

<210> 5522

<211> 732

<212> DNA

<213> Enterobacter cloacae

<400> 5522

ggatgcgaga	tgaataaaac	gtggaccocgt	attgtgattg	tcgtcattgc	ggctgccgcc	60
gtggcgcttct	gggtgttttt	cgacaggcag	cgcgcocccg	aacggcagat	ggataacgcc	120
cttaacgcga	tgcccgcctg	gcaggtgatt	aaggagcagg	agcccgcgct	gcatacagcg	180
atcctcgacc	agatggccgc	cctgcaaaaa	gcgggcgagc	cggagcagca	gattatcgac	240
accatccagc	cgcagatcct	gcactctgcag	atgtcgcgcc	tgcagaacgc	cccggacgcc	300
aacgtggtga	actacatgac	catcaacatg	gagcagaccg	ccgccatcca	gaaggtgagc	360
gacgacgcct	gcttccgctt	cctctacccg	atggtgaagg	gcggcatcaa	cccgatgcgt	420
atgctggata	aagacctgat	gacgcggcgc	atgcaggccg	acgccgacat	gatgcgcgcg	480
gcctacggca	aaaaccgcca	caccgtgacc	ccggccgaac	gcgaggcgcc	tgctcaggat	540
gtgcggccga	ttatgaagca	acttgccgat	aagtacggcg	aggacatcca	gctgctgcag	600
atgccggaga	aagcgggtgg	caaagagaag	ctctcctgcg	atatggtgca	ggagatgtgg	660

gccaaaggtgc tggcgctgcc ggagcagaag gcggcgaggg tgatacggct ggcggtgtct 720
gagctggact ga 732

<210> 5523

<211> 237

<212> DNA

<213> Enterobacter cloacae

<400> 5523

gcgcggctgg caggggattc tatatatccg tgtgcaagtg cggaagacgc aaccgttaat 60
gtggttaccc ccagcgcaat tttagagagt ttcattcatc atccattaat tagaatagag 120
caaggcagcg tcagtcctatt aatggagtgg cggatgcgtc atttcccga gagagtaaaa 180
atggtcgaaa taaaaaaagg cagccagagc tgccttctct ttcttgaaat aaattag 237

<210> 5524

<211> 1119

<212> DNA

<213> Enterobacter cloacae

<400> 5524

actaaggaac ggacgatgcc ggttcacatc gctatctggc ggatagggga gcatccccag 60
ccgctcacca tcagcaaaact agccagcgag caactgctgg agaagatgat tttaaacgac 120
cccactatcc tctctgatca gtggatgac atcggccatc aggaaaatac gctcgataaa 180
gggcgtatcg atctgctggc gattgcgcgc gatgcctcgc tgatcctgat tgagcttaag 240
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gacttaaccg ccgaccgcct gtgcgagatt tatgaaaaat tttctggtgg cggaaatcta 360
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catcaaatca ttatcgtggc gccggagctg gatccctcca ccgagcgat tgctgattat 480
ctgagcaaga atggcatctc gattaacgtt ctgttcttta aagtgttcca gcacgggtgac 540
gaacagttct taagtctgtc ctggcttata gatccgagcg aaacgcaaac aaatgcgcgc 600
caggccactg ccggaacaag tgccaatgct aaggaaacct ggaatggcga gttttatgtc 660
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cctgtaaaat ggctggaac ccggtccgag ctcgaaagcg tgaatgaggt aggtttcttc 1020
ggcaaccaaa acacggtctg caagccaacg actcccaaat ggcgttttac tgtagaaaaa 1080
ttgaagcgct atttcacgca atgggataca gagaaataa 1119

<210> 5525

<211> 282

<212> DNA

<213> Enterobacter cloacae

<400> 5525

gtggatctta tgacgttgac gaataggact aaaaccattc tccgatgggg agggatttgc 60
attgtcagcg tgggttactt cctcggactg tttgtagcct cgcaagcatt cgcggttttc 120
tctgaaaatc agactcttgc ctcaaatcct gttccattga gagagtatta ccaagcggtt 180
gattcacttg gtcaagctac aagcgggtgt tttgatgcag caatttatgg tttcgtgac 240
agtgtacctc tgatcctact tatcttcaaa aagggtgagat ga 282

<210> 5526

<211> 210

<212> DNA

<213> Enterobacter cloacae

<400> 5526

ttccgggttt gccatggctc aatcctcttt aaagtgcggc agatacttct attttcacac 60
acggacgggt ttgcctccac ctttggttga aagatttgtg aaacgggggt gcaaatgaat 120
aattacacat ataaagtga ttttaattca ataagtggca ttcgccatgt gaggataaaa 180

tgtctgatct gtacaagaaa cactttctga

210

<210> 5527

<211> 456

<212> DNA

<213> Enterobacter cloacae

<400> 5527

ccttatacag	gcattattaa	aatgaataaa	ctcatttttc	ttgtgttatt	cagcacagcc	60
gcattggggg	ccgaagattt	tcagataccg	atgcagcgcg	cccttgaatt	caatcgctgg	120
taogtcaaac	aagtgaacaa	cgatcgttat	cccatccaac	agggaaatga	aatcgatgag	180
ttcgttacgg	ccagtaccat	gaaaaaatta	cgtcatgcag	acgatccccg	ttatgccgac	240
gctgaatttt	acgaggctga	tttttttatg	aaatcgcaat	atatcggcga	ggactgggct	300
gagaatgtgg	ctattgattc	gtatgattca	gaccgggtct	gtgtaaacgt	gaatatcacg	360
tttggcaaaa	agaccagca	cacagtcatt	gattgcatgt	ttaaagaaga	tggggctctg	420
aaaatocagt	ctgtcgccgc	tcgggataat	aattga			456

<210> 5528

<211> 258

<212> DNA

<213> Enterobacter cloacae

<400> 5528

agcgcaccgc	gctggtgcat	aagcaaatta	attattttact	cagaacgcac	taatattcat	60
aaagaaccgt	ttgcattgag	taaagcgtgc	attaaatcgc	ttgatcccaa	aagcgagctg	120
cgtataatgc	ccgacaattt	gccgggagga	agcatggtca	agcgtgtacg	acataacgtc	180
ttaccgcgtc	tgaaatcaga	cgctggcctg	ccgtttttct	tcccgtttgt	aaacctattc	240
ccagagcccc	tcatttga					258

<210> 5529

<211> 498

<212> DNA

<213> Enterobacter cloacae

<400> 5529

ccacaccaat	tattttctaaa	gcaagtagag	ggacctatga	agcagtacac	caacaaactt	60
acaccagaaa	tgctggcagc	ttttgacgaa	tcaccattta	cagcogaaca	actcgccgga	120
atgaacgacg	aagccagttc	actcatcgaa	aaacaaaacg	cctacaatct	cgctcatccc	180
gttacagctg	cttatctgat	cgctacagag	ggcagcttga	cacgtaatgg	tgggaaagtt	240
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ggaaacacac	caggcgaatc	tattgccctg	gttggttagct	cgctggataa	cggcgatgaa	420
attatttagct	gcccacaaaa	tgccggaaga	agagtagtoc	gagccgggga	atcgttgcca	480
gaaaactttc	tgaataaa					498

<210> 5530

<211> 219

<212> DNA

<213> Enterobacter cloacae

<400> 5530

gtggtcgggc	gttcaacctt	cgcaggccag	ggcattaagg	gaaggtcgcc	tgccgggtgcg	60
gcaaaggcgg	aggcgccgag	cataagcccc	gcggttaaga	gactgtaccg	taacatgaat	120
gttccttatt	tgacgggcca	aatacaggca	aaacattctg	ttaacatgcg	ctcaaattgt	180
cgtcaagcga	atgcgccgac	ggagatcaca	ggttggtga			219

<210> 5531

<211> 357

<212> DNA

<213> Enterobacter cloacae

<400> 5531
 cctactaatc gtgaatatta tctaagtaac tacaaaggag agtatatgcg cgataaattt 60
 attgatgcga ttcatagtcg ctctaaaatc atgttaactt tttattcaaa agaagataac 120
 gcgacaatca cgagattaac cgctcctatg gacttcggcc ctagccgtag agcacatgat 180
 aaaagtgaca ggtttcattt ttgggattac gaaagtgata aaaaaaatca tgttctcagt 240
 ttgaggcctg aagctattaa atctctagta gtaatcgctc aaaattttca cccgcaagag 300
 tttgttaact ggacacccaa ctgggtttatc cccagagatt ggatcaata ctcttaa 357

<210> 5532

<211> 1152

<212> DNA

<213> *Enterobacter cloacae*

<400> 5532
 aataaggcgg tcactatggc atcgggttaac agaggctgca cagttcacgg taagaacggt 60
 ggtctacacg gagataaaac ctctacaggc gcacaatgta ttgcgcgcgc ccccggtatg 120
 tctgttatgg gcttgtggaa actttacatc ggcgataaga ccactccttg cccgaaatgc 180
 gggaaagtgg gggtaattgt gagcgggtgat cctcgctgct caaatagtgt cgcagtcgcc 240
 gtggatgggt ctgaaatcct ctgcggttgt ccacagggtta ctaattttct tatcgcacct 300
 ggcaccgttg aggttaatac ccttccttgg actatagcgc ctggagagcc agtgcagcac 360
 gcacaggcag cgaagaagca aaacagcttt actgacacct gcaagccaga agataatccg 420
 ttattgaacg gcgtttacat ctggactgaa accacagacg caggacatgc tttcgtttcc 480
 gtacatcaag acaattcgat ttatctctat acctatggtc gctacggcag aacaggccca 540
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 tatagagcag agctgtaccg gatgggcgca agagcgtttc gaatagatga tgcctgaccc 660
 acaaaaacaa ggcagttcct tgaagatctt tggaaataagg gtgaaccagc gattcgcaca 720
 tcggaaatga aagaaacaac ccaacgcaga ggccgcacaa ttgatgagta cgacgtaaca 780
 ggaaacaact gtaccactca ctctgttgaa gggattaagt ttgctggttc aagggtattc 840
 gagcacaact acacatctac tacgacgcag attcctatcg aatccgcaga agatttcaca 900
 atccctgtct cattgcagcg ttatcttgag tcaaaaagtt ctgacttctc atcaatgaca 960
 gttgttgaaa tgacaggcga gtttaaaaaa atgtatocca acaaggacaa tttgcgcgca 1020
 taccaagagt caccaaaggg taaagttcag cacatcgacg ccgaagcagc ggctacaggc 1080
 gattcattat cacagtattc cagcggcact tttggcgggtg tattaggtgg atcttatgac 1140
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<210> 5533

<211> 462

<212> DNA

<213> *Enterobacter cloacae*

<400> 5533
 ggcaggggta aactgttggg cgacaaaatg tggacagagc cgaagcgccc tgcgcagcca 60
 gtgcagcagg cacaacggtt gattaagggc ggaaccctca attcggtagc agccatcatg 120
 gtgcgtgacg atatcaagcc gatgatagcg ctggatttca tcgcgcgtct cggctatata 180
 ttgccgtgcc atgacgtcgt ccacgccgtt ggcagcgatt atgctctgtg cggtgacggc 240
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 agatggaatt tcaagcgtcg tcatcatctg tcgggtatcc agtgtgaatg tttgataaga 360
 atagctaaag gatgggcgct gaaaagcgca ccggcaggcc tttcactcag gattgctggc 420
 gaacatcaca gaatttttga cgtgaggaac agatgcaaat ag 462

<210> 5534

<211> 345

<212> DNA

<213> *Enterobacter cloacae*

<400> 5534
 cacgaattga taaataattt gactaggcaa gaatgtgato cagatctaca cttacggcac 60
 aggcgaaaaa cttgcctcag gcataatgca ttaaataagt atgagaataa aattatgaaa 120
 aaaaatcaaaa ccgctacagc agcgatgggt ctttcgcgac tttcatttgg cgtatttgc 180
 gctgataata cgcaacctgc caatgacgtt aacagcccaa tcgggatcgc taaagcctct 240
 gatgtagaag caggctccaa cattgccccct ggcactcagt ctaccggcca gtcaatgaat 300

gatgcatttg atgtacataa gctggtggcg ggtgagtggc cctga 345

<210> 5535

<211> 291

<212> DNA

<213> Enterobacter cloacae

<400> 5535

aacatattcc	gtggatttct	gtaccgcata	gcgcgtctca	ccatcttccg	ccagcaggac	60
gccctggcga	aacggcgtaa	agttcagcgt	atgggggtgc	atatgaagct	ggaaagcctc	120
gctttgacgc	gtgatctgct	gcacgaccgc	atagcgcaag	acgggttccc	gggtgggttc	180
cggcgcaacc	ccggcgagca	acgcccggag	cgctgatgc	gtaggggtaa	aacgcgtcag	240
gtcgttttgc	ccgaacggca	gcgcttttcc	cagctccagg	gtacaggata	a	291

<210> 5536

<211> 186

<212> DNA

<213> Enterobacter cloacae

<400> 5536

atagtgaata	tttttacgac	aagcggcgct	ttgccgcattg	aaaacaagaa	agagtatgca	60
gaggccaaat	ataattctgg	aattgtgatc	gctcgcgaaa	tttatcggtc	gtttacgccc	120
tgttcgaggg	caaaacgcgc	cgaaatgggtg	caaattattgc	accgttggca	ttatctgtcg	180
cagtaa						186

<210> 5537

<211> 192

<212> DNA

<213> Enterobacter cloacae

<400> 5537

gatttatctc	taagattcat	agcctgctat	tattctgaat	ccattttgac	gttaaaaagt	60
gcaattataa	tttctaacgg	gcatttcttt	gtattgtttt	gttaciaaaca	gggtccagcc	120
gatgaatatt	cagccatttt	ttactccccc	cttcagacct	caacgcacac	gaacgaatcc	180
atctggcttt	ga					192

<210> 5538

<211> 210

<212> DNA

<213> Enterobacter cloacae

<400> 5538

agaggggcgg	ttgccgcgcc	ctctcagggtg	cgacttgaac	ctgaatcacc	gaacgtattt	60
caggacagca	tcaagcagtt	gcaatacagc	aacaatgagt	ttgaggacaa	gtatgaccat	120
atccacgacg	ctcatacgcg	tctccttttg	gttaaaaagga	gcacgatgct	ggcgtacctt	180
tccgcgcct	gtggccagca	cctggattga				210

<210> 5539

<211> 459

<212> DNA

<213> Enterobacter cloacae

<400> 5539

cgagggaatg	ctatgtcgcg	tctgttaatt	gagcctgtta	cgctgatga	accgggctat	60
atcgccctga	aggcggagag	tatcgcggtg	aatttcaata	tgctgcgcag	gctggaagag	120
aactggcagc	ggggtgaaaa	cgcctttaac	gcgcgggggtg	aaaagctgtt	gggggcgttt	180
cttaacggca	ggctgggtggg	cgtgtgcggc	ctcaaccgcg	atccgttcag	ccagcagccg	240
cgcgccggac	gtattcgtca	tctctacgtc	agcgaaaagt	gccgtgggca	gggcattggc	300
aaacaacttt	tgaccgtggt	gatggcggat	gccagcatct	ggtttgattt	tcttaatacc	360
catgcgcgcg	aaaccgcgta	cggattttac	catcgggcgg	gcttcaggct	ggtgtcagac	420
gaacccccggg	tgacgcaccc	ccttttttgc	gcagtgtaa			459

<210> 5540

<211> 288

<212> DNA

<213> *Enterobacter cloacae*

<400> 5540

ctgcccagca	agatgcccag	cacaagggcc	agcaggatct	gccaggccag	gctgactttc	60
aaatttttca	tagaaactga	cttcctcaat	gaaatctccg	caccatcaaa	actgcatgaa	120
tatggagaca	tactgaaagg	gtatgaattg	tgttgcggtg	gtttatggga	ttttttaacg	180
cgccgtatga	gtatcatttg	cacggcatgc	tgcgcaagcc	ttaaagaaca	aggcatttca	240
ctgcaaaaag	tgtcattgtc	ggtaatttat	agcaattcgc	ataaataa		288

<210> 5541

<211> 225

<212> DNA

<213> *Enterobacter cloacae*

<400> 5541

cgccccgctg	ccatagctcc	ctgcgcgcac	acccgttccg	cccattgcgt	cgctacgcgc	60
ttccgtccag	gtattggctg	ctcccgcccg	atttgccata	aaaaaggaga	cagcgatgct	120
aaccatcgaa	aatttataat	gttttttcac	agtgtgctcg	taaatagttt	gttattagtt	180
aaccctgtct	gttatcacc	aaacaggaac	gaactattgc	tgtga		225

<210> 5542

<211> 258

<212> DNA

<213> *Enterobacter cloacae*

<400> 5542

ttggaatgct	taaacgcctg	gctctttgtg	caacgcagca	catgcagtgc	catcctcacg	60
gaacagatgg	caacgcctcg	gcggcgaacc	gatagcgaat	gtggcaccct	cttctaccaa	120
caccacgtca	ttctggcggt	agaccagggt	ctgacggatg	gcggggatct	ggatatgaat	180
ctgtgtttcg	tgaccaagct	gttcgacgac	ctgaacttca	ccttcacgcg	tcacatccgc	240
aatgtgggct	ggcagtag					258

<210> 5543

<211> 210

<212> DNA

<213> *Enterobacter cloacae*

<400> 5543

cttgaggaat	tatactcccc	cgcagagaaa	atgacgaatc	aaccaggaca	gatgtctcca	60
cagaggggta	accttatgtc	gcatcagcaa	attattcaga	cacttattga	atggattgat	120
gaacatatcg	accagccggt	gaacattgat	gtggtcgcta	aaaagtcggg	ctattcgaaa	180
ggtattttaca	gagaatgttc	cgcaccgtaa				210

<210> 5544

<211> 240

<212> DNA

<213> *Enterobacter cloacae*

<400> 5544

agcggcggtg	gtgcagaagc	cgcgcgaaca	acggtactat	taagcgagaa	caataagcag	60
gcggcgctga	gcgccagtgt	gatcttgccg	atattttccc	ctgaatattc	agtttggtat	120
cttttttatt	tgagcggtat	gtcaaaaaac	tatccgacca	taaccccgag	gggaggggaa	180
ggaaaggagt	ttttacttat	taagcggaat	aaaaagaaga	cgatcacaaa	gtgtggatga	240

<210> 5545

<211> 429

<212> DNA

<213> Enterobacter cloacae

<400> 5545

ggggtgaaaa	ctctcacttt	atcatgtttct	gctaaaaaca	ccgagatccg	ccaggctgtg	60
ctatacctga	cgcacgcgaa	atcaggagat	cgcaaaatga	aaagacctga	ctgtattcgg	120
cactggcggg	acgtggaagg	cgctgatgac	gcaacgtatc	ctgacagcaa	cgaacgtttt	180
tctattggcg	cgccgctggc	ccgcaaaactg	ggctctcgcc	gcattggtat	tcaccatgaa	240
cggtgcgcgc	ccggacgcgc	cacatcttat	ccgcatgcgc	aaagcgacga	agaggagttt	300
gtttacgttc	tggagggtta	ccctgaggcc	tggatcaatg	ggtattttat	ggaagctcga	360
acccggagac	agcgtgggat	ttccagcccg	gacgggcgtg	tgtcacacct	ttatcaacaa	420
taccgatga						429

<210> 5546

<211> 255

<212> DNA

<213> Enterobacter cloacae

<400> 5546

agggaaattg	ttatgaagaa	agtactgtat	ggcatttttg	ccatatotgc	gottgcggcg	60
acgtctgtct	atgcagctcc	ggtccaggtc	ggggaagcag	caggggcggc	agcgacgtct	120
gcgtctgcgg	ggagttctac	cgcagccagc	accagcgccg	taagttcagc	cgtgggtgtc	180
gcgctggcgg	caaccggtgg	cggtgatggc	tccaataccg	gaaccacgac	cactacgacg	240
accagcacc	agtaa					255

<210> 5547

<211> 486

<212> DNA

<213> Enterobacter cloacae

<400> 5547

aaagacctga	ctgtattcgg	cactggcggg	acgtggaagg	cgctgatgac	gcaacgtatc	60
ctgacagcaa	cgaacgtttt	tctattggcg	cgccgctggc	ccgcaaaactg	ggctctcgcc	120
gcattggtat	tcaccatgaa	cggtgcgcgc	ccggacgcgc	cacatcttat	ccgcatgcgc	180
aaagcgacga	agaggagttt	gtttacgttc	tggagggtta	ccctgaggcc	tggatcaatg	240
ggtattttat	ggaagctcga	acccggagac	agcgtgggat	ttccagcccg	gacgggcgtg	300
tgtcacacct	ttatcaacaa	taccgatgaa	gagggtgcgt	tactggtggt	gggtgaggcc	360
aataaaaaac	ataaccgtat	ctactatccg	ctcaatccgg	tgtatgcgcg	gacgcgcgaa	420
gaccgctggg	tcgaccatcc	gcctcagttt	tttgggcgcg	acgatggaaa	acctgggcga	480
aaataa						486

<210> 5548

<211> 1332

<212> DNA

<213> Enterobacter cloacae

<400> 5548

caaactattt	acgagcacac	tgtgaaaaaa	catttttaaat	tttcgatggt	tagcatcgct	60
gtctcccttt	ttatggcaaa	tcaggcggga	gcagccaata	cctggacgga	agcgcgtagc	120
gacgcaatgg	gcggaacggg	tgtcgcggca	gggagctatg	gcagcggggc	gttaatcaac	180
cccgcgttgc	tggcaaaatc	taagcccagag	gatgatgtga	cggttatttt	gocgtccgtt	240
ggcgtgcagg	tgaccgatga	agacaatctt	caggacgaga	ttgataccat	taacgacaaa	300
atcaatcatt	acaaggatgt	ggttgatagt	ctgaccccca	ttgaagttaa	caccaatcca	360
ttaggttcga	tcaatcagtt	ccagggcgca	gcgaaagatc	tcgctgatga	actggactac	420
ctgaaaaggca	agaccgcaca	cgccaccgca	ggggcgggga	ttgccgtcag	tatccctaac	480
gatgttcctt	ccgtggcctt	tatggcaaaa	ggctatgcc	atggccgggt	cagctcttca	540
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ggtgtggcgc	tggatgcgcg	gctaaacggt	accgatcaga	tcaccaaaaa	ccttaactct	660
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gatcttggcg	gcgttccggt	ttccgttggc	gtcacgccga	agttgcaaaa	aacctggctc	780
tataactaca	ccacctcaat	ctacgattac	gacagtaata	agtggaacga	cagccgctac	840
cgtaccgacg	acactggctt	caacgtcgat	gccggtattg	cggctgattt	cggtgaaaac	900

tggacggtcg	gtgtgagcgg	acaaaacctg	atgtcgcgcg	atategatac	caaagatatac	960
cgcattcgca	acggacgcac	gggagaggta	gtgagttata	aagacaccta	tcagatccgt	1020
ccgctggtca	ctgtcggggc	cgcctggcat	aacgatctgg	tcacgcttac	cgcagacggc	1080
gatctgaccg	aaaccaaggg	ctttaaaagc	gaagacacct	cccagtagct	tggcgtcggg	1140
gccgaagtca	cgcgcgtgag	ctggctggca	gtacgcgcgc	gttatcgtgc	ggatatgaaa	1200
gggaacgaca	gcaacgtott	taccggcggt	gtcgggtttc	cgcggttcaa	cgcgcgtccac	1260
gttgacctga	tggggcttta	tggcgaagac	gagacctggg	gcgcaggggc	acagttgagc	1320
atgacgttct	aa					1332

<210> 5549

<211> 192

<212> DNA

<213> Enterobacter cloacae

<400> 5549

cgtttacagc	agtatgtcta	tggattatgc	ttgtgtggaa	caataaatgt	acccgcagaa	60
ataattcatc	gcattgaatt	aattgccttt	tttggatttt	atattctttg	ttttacactc	120
agcatgctct	ttgatttcgt	ggtcittattc	ttttatttcag	atatgagtta	ttgcgggttc	180
tctctcgatt	aa					192

<210> 5550

<211> 399

<212> DNA

<213> Enterobacter cloacae

<400> 5550

ctattcagtt	catcaaggat	gaagaatgaa	aaaaagtatg	ttgtcatacc	ctacggtgaa	60
tattttcgca	tgcgttttagc	catgcttgag	tacgatgacg	atgatgaaaa	cgaactgggaa	120
gacatccctt	acgaatcaga	catctacgat	aacgtagggt	taccgggtga	agtgtgcgac	180
atcatgcata	acgagaacgt	cagcctacag	gcgccttggc	gcatttttacg	cggcatgtcc	240
cagcaggagg	tggcggagaa	gcttggcatc	agccagtcgc	cogtgtcaca	gctggaagcg	300
ctggactccc	gaccgcaaaa	gcgcacccgc	gaaaagctgg	cggcacttta	cggctgtaaa	360
caggagcaga	tcagcctcta	tttaccgaaa	gaggggttaa			399

<210> 5551

<211> 483

<212> DNA

<213> Enterobacter cloacae

<400> 5551

gaggacaaca	tcgtgacgct	cgatcctgaa	acagacttaa	aactggagcg	cgtggtggac	60
gcaccgcgcg	atctgctgtg	gctctgctgg	actacgccag	agcacatcaa	aaacttcttc	120
attcctgctc	cccataaggt	gaccgaatgc	gacctcgacc	tgcgcgtggg	cggacggttc	180
aacaccgtgt	ttgaggtgga	cggccagcgg	atggataacc	ggggcgatat	ccttgaaatc	240
gatccgggga	aaaagctggt	ctttaccgac	ggctataccg	aaggctggaa	gccggccgag	300
aagccgttta	tgacggcaat	tttgctcctg	gaagacgcgc	gggagggcaa	aaccgcctat	360
acggcgatag	cgcgccaccc	cacgaaggaa	atccgcgagc	agcatgaaca	gatgggattt	420
cacgaagggt	gggggattgt	gctggatcag	ctgggtgggt	atgtgaaagg	gcttaacgct	480
tag						483

<210> 5552

<211> 231

<212> DNA

<213> Enterobacter cloacae

<400> 5552

attgagaaga	cacagagtgc	aagcgctact	gcgccagacg	ggataacgat	atccttctctg	60
aacattttgt	ttcctgattg	gttgggcgcg	attaatttct	gggggttatt	aaagcacaaa	120
aagcgcgccg	aggcgctttt	tggatatcag	gaatttctct	taggcagcgc	cgggaaccag	180
cacttcgggtg	gcgataataa	cgataatcag	gcccaaccagc	accggcactg	a	231

<210> 5553

<211> 480

<212> DNA

<213> *Enterobacter cloacae*

<400> 5553

atctcttttaa	aaccactttct	ctttcattct	tttgccctgct	tatactcggg	tcacttttctc	60
ctgtccgacg	atctcaatat	gtacgccagc	tgacacatc	gcctgcgctt	tatcaaaaaa	120
catctgctga	tggtttttgct	ggcgttttggc	tggtggttga	tccagactca	ggtggccgctc	180
gcggtcccatc	aatgtttcaat	ggattttgcgc	ggcgaggtgg	ccaccatcca	gcatatggag	240
atgatggcgc	aaccggggcc	gcattatgct	gccggtgctt	caccgctgtg	tgaaaaacat	300
tgtgtgcccgc	atcaggtaca	aaaagatcct	gcccagccgc	atctgggtggc	gctgcctgcc	360
gccatgaccc	tgaccttaac	tccgccagag	tgctcgtctg	caagccattc	tgcggtggtcc	420
gttacccttc	ctgctgtggg	gccgcgggca	acgatccgct	attgccggtt	tcgggagtaa	480

<210> 5554

<211> 1242

<212> DNA

<213> *Enterobacter cloacae*

<400> 5554

atgagcatgc	ttcctacgcc	agaatacagc	cgcaatatgc	ggctgattgg	ccatagcgac	60
cagggcggtc	gtccggatgg	cgtgcagctg	atgggtgcacc	gcggttttgc	gtatatcggc	120
catatggtgt	cgcagggtct	ttcgattgtc	gacgtgcgcg	atccaaaaaa	tccgaaaccc	180
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ctgctgctgg	tgatcaacgc	ccgggatctg	tttgccgatg	cccgtttcgc	cgacgagaag	300
gtctactaca	cccgtcagggt	aggagagacc	gtcagcgacg	ttcaggacag	gggctggagc	360
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tcgctgagcg	gcacgggcat	tcaccgcac	tggtacgtcg	gtggccgctg	ggcgtacgtg	480
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cagccggact	ggccggaaag	gaaacgctac	gccctccacc	acgcgattat	tgccggggat	660
accgcgtacg	gcagctggcg	cgcagggcgc	ctgacgtgc	tggaacgtga	ggatcgaccc	720
cagcctaagc	tcattagcca	ccgtaactgg	agcccgccgt	ttggcggtgg	gacgcacacc	780
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caggaagacg	gcgagaagct	gatctggctg	tttgatatcc	gcgagccgct	gaaccgggtg	900
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ggcccgacac	acctgcacga	gaaccggcgc	gggagctttg	tcagctccac	gctgatcttt	1020
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gaaacgggag	cgctggtgcc	cgcggcgcgc	gagaggatga	tggtacgcgc	gccgaatcgc	1140
ccgcaggtga	tccagtcgtg	cgacgtgttt	gtggatgcgc	aggggattat	ttacagcacg	1200
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<210> 5555

<211> 879

<212> DNA

<213> *Enterobacter cloacae*

<400> 5555

acagtgcgca	gcgtgccagc	ttccgccagc	agctgtccga	acaccatacc	gaacaccatg	60
aattccaccg	tcgttaaggg	agccgctatg	aacatgaaac	cgatcggtgg	aatgctgttg	120
ttgatggtat	ccaccttcgc	cttcgcccag	caatctttct	ccacacctga	gcaggcgcc	180
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gcctggcccg	taagctatgg	tcagacgggg	gtaatgagct	ttgtcgtaa	ccaggaagac	780
aaggtttatc	aggcaaatct	cggcaacgat	tcggcgagga	aagcgaggc	gctcgctgca	840
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<210> 5556

<211> 201

<212> DNA

<213> Enterobacter cloacae

<400> 5556

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gtggataatg	gggtggagca	gggcattaag	ccaggctttt	tccgctggat	cggaaaatat	120
gtactcacgc	agctgcgcac	gattcaggg	gccgtcagcc	tgtatcacac	ggcgacaaaa	180
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<210> 5557

<211> 195

<212> DNA

<213> Enterobacter cloacae

<400> 5557

tgcgaaaaaa	tttccctcgg	caaattgcgc	cgctcatatcc	cggctaacgg	gcaacctgta	60
ggcctgctaa	gcgaagcgcc	agcaggcttc	aaagggttact	gctggttttc	gctccagtca	120
tcgctatccg	agagatcgcc	ttcgctcgga	atgcgtttct	cttcgcgcgc	ccattcgccc	180
aggtctataa	gctga					195

<210> 5558

<211> 312

<212> DNA

<213> Enterobacter cloacae

<400> 5558

gcaggcgacg	gaaattcaga	agggcgcctc	tgcgagcgac	cagcagcgcg	ttgccggagg	60
ggggacgaca	gaattacgga	actgcttccg	ggcccgggtga	cgggggtgcta	catcatgctt	120
aacgattcag	caaatttttt	aatgttgctt	ttttgtaaac	agattaacac	tgtgcagaaa	180
tcctgctatg	ctgcccgcgc	cggatatcgg	cattttacct	acaaactgct	gtctcacagg	240
agcgtgaaga	gaacgcccgc	cgcatatgac	aatgagagcg	aggagaaccg	tcgtgctaga	300
agaataccgt	aa					312

<210> 5559

<211> 189

<212> DNA

<213> Enterobacter cloacae

<400> 5559

caacctcaac	ttaatacggc	gttttcaa	aagatgactg	tcatatatca	agttgcgtgc	60
caacttttta	aattattgaa	aataatggat	ttatattttg	atgctcccaa	atgggtagtc	120
attttgacta	ttttaaaaa	tgtcaatatg	acactatgca	ttgtcaaaat	gacagtgagg	180
cagagatga						189

<210> 5560

<211> 282

<212> DNA

<213> Enterobacter cloacae

<400> 5560

cgctcagccc	gcaatgtatc	cgttacttac	ccaggcaagc	gcggaagggt	tggatttgaa	60
agcgcgagcc	atcgccggaa	aggcgacgct	ggcaataaac	atgtttatca	aatcaaggaa	120
aaagccgagc	agaaaagacg	cggcgatttt	gctgcgatac	gtcatggaag	ttcctccggt	180
gaggtggcgt	atcgtatcgg	ccgcacggtt	acggataaac	gcgacaaagc	acgatatact	240
gtcaacatta	ttttgacagt	taaccaggca	agcgatgctt	aa		282

<210> 5561
 <211> 516
 <212> DNA
 <213> Enterobacter cloacae

<400> 5561
 gcaggtcggc gaacagatca gaaaactggg actggactga tgaccacggc cgtacttcag 60
 atgcggcagg ggggtgctcct gaccacgtca tgccctgctcg ccttcgtgct gttgtttctg 120
 gtgatcgccc ttggcgctcag catcggtgag ttgtctatcc cgctcaataa cgtgttctac 180
 gccatcagca ataagctggg gctgactgac gttccgctca accgcatcta cgagagcgtc 240
 atctgggaat ttgcctcag ccgcgcgctg gtggcgccct gctgcggagc cgggttggcc 300
 atctgcgggg ccgtattgca gagccttttg aagaatgcac tggcggaacc ttacgtgctc 360
 ggcggtgctg cgggagcgtc aaccggggcg gtgtcagtcg tcgtattggg tctcggcacc 420
 gggcgcgatg tcgctttctg cgggcgcgct tgccggagcc ttcgccgctt ttgcctttgt 480
 cgccttctcg accaacggcg cgcgcggcgg caatga 516

<210> 5562
 <211> 363
 <212> DNA
 <213> Enterobacter cloacae

<400> 5562
 acgctcgtga atgatccagt ccgcttccgc cagttgttcc agcgagtcaa ccggatgggt 60
 tgccagccag cctggcggtt ccacgggcag gatgggtaag gaggtcatca acgcggcggtg 120
 gtagcgcgaa tctgcaagcg tgccgagccg gatagcgaca tcgaagcgct cggcgataag 180
 atcggcatgc aaagaggacg agacatgccg caccggaagg tccgggtgca actggctaaa 240
 ttcagccagc aaaggcacca ccacctgcca gccatatctg ggcggtgggtg tgatccgcag 300
 ttctcccgtc agcccggcgt ggttggcgcg aacgtcatcc tgcaatcgct ctgcaccccg 360
 taa 363

<210> 5563
 <211> 417
 <212> DNA
 <213> Enterobacter cloacae

<400> 5563
 caacacgcag ttacttgccg aactgcaaca ggagcaacca tgaccatttt cgaacaagag 60
 atcctcgaca ttcacgtcgc ccttgaaaac tggtaggtg caggcgaagg caatcgggac 120
 gccctgctcg ccggtttccg tccggatttt ctgatggttc caccgagtgg caaccggtta 180
 gatcatcacg cgcttgccca atttttatat gcgcagcggg gaaccgcgac cgggctcagg 240
 atcggatttg acgcgttaac aacgcttcag acatgggaca acggcgcggt gctccattac 300
 cgggagacgc aaaccgggcc aggcagccc gtcaacgtgc gctggtcaac cgcggtgctt 360
 aatcaggaag gggataacat cacctggcgt ttgctgcacg aaacggcgca gccgtaa 417

<210> 5564
 <211> 240
 <212> DNA
 <213> Enterobacter cloacae

<400> 5564
 gtaaattgtt gcctggtcga gtatagggaa tacgtgaaag gagggaagcg taaaatgctg 60
 gattttacgt gttgcgtcat gttttttaac tattgggttaa cgaaagcgcc gggtagcgct 120
 acgcttaccg ggctgcatt gcatttcccc ctctccctgt gggagagggg tggggtgagg 180
 gcatcagccc gcaccgaacg ttgcactaaa cctgctgctt cttatcgtgc tggcggttaa 240

<210> 5565
 <211> 252
 <212> DNA
 <213> Enterobacter cloacae

<400> 5565
 gcccagaggg cgttcagtag ttgggtcaaa agttccattc agtgttcctg gaaatcggtt 60
 aacgtcacgc ctgtaattcg ggaaatacag cacggcgaca ttgttatgat ttcattatgg 120
 tcgctcgcgg acacattgat gtgtggccaa cactgttccc tgtaattgg ctggttagca 180
 agcactaact tacaaaataa cgaagtgaat ccaattgtaa caaagcccga cgttctgcgt 240
 cacagaattt ga 252

<210> 5566
 <211> 249
 <212> DNA
 <213> Enterobacter cloacae

<400> 5566
 atctggtgcg ccgcgagggc cgcttttaaat ttattcggga agatgtcgtt actcattact 60
 tatacctttt ttaattccgc agtttttagcc agtagctttt cttatttatt ccgactcagc 120
 gtcagcggtta tatttatttt cctgactgaa ttttggcgtt ataaaatcgt cattcagtat 180
 aatcgtcacc acccggcagc acattgtctc aatgctcaat tatccaacgg gagtaacacg 240
 ctatttttga 249

<210> 5567
 <211> 231
 <212> DNA
 <213> Enterobacter cloacae

<400> 5567
 aactcccgtt tacttactat gcttaagtag gcggagcacc cctcagatgt tctccgctta 60
 gttctggaac acggcttacg ccgtaacaca atggaagggt tctataatga aataccgcgt 120
 caccctggct ctggcccttt tttctttaag cacagcttcc ttcgctatgt ctctttgtca 180
 ggagaaagaa caggatatcc aacgcgaaat cagttatgcc gaaaagcata a 231

<210> 5568
 <211> 483
 <212> DNA
 <213> Enterobacter cloacae

<400> 5568
 ctaccgcgta caggcgaaaag ccttttgtct ggcgaaataa ccggaggcgc tatgagcgat 60
 cgcatttttg ccgggatatg gctgctgctc tgcattggcg goatgttcgt cgcctggcag 120
 atccacagcg aatacagcta tgaaccgcgt gggccacgcc cctttccgct cggcattgtc 180
 ggccctgatgc tgctctgctc ggtagcgctg ctgctgcgcc atccggatac cgtggagtgg 240
 ccgccacgcc gaacgctgca acgtctgctg gtaatggtga ttgtcctgct gatgtacgcg 300
 tggggctttg aatggctcgg cttcccgatt gccaccgcc tgctgaogat ggtgattggc 360
 atactattta acgcctcgtc gcctgcggcg gggatctccg gggctcgtact gggcatttta 420
 ctctggtacg ccttcgaccg cctgctggac gtgaccctgc cgcttggcgc atggtttaac 480
 taa 483

<210> 5569
 <211> 207
 <212> DNA
 <213> Enterobacter cloacae

<400> 5569
 aaacagtgtg gcatcagagc tgtgctatcg ggaatggcgg ccagtctcat acatatcccg 60
 caatgcctgt tattgacaca tagcggacgc atctttcaca cgtttctata taacctgggt 120
 agcaaaacta tctccgtgc acttcttctc agcaagcaat tctgaatac gctaogcaac 180
 ttaaacaat atttcagacc aagatag 207

<210> 5570
 <211> 444
 <212> DNA
 <213> Enterobacter cloacae

<400> 5570
 ggtagtgcga tgaatatatcc aatcgctcctg gtgctttgtg cgctcactgt cccagccatt 60
 gcagccagca ctgactggcc atcagcactt catggaatcg cctcaggtga cacacactgg 120
 attgagcaag ccccaacgct ggctgccacg gctgacgcca ggcaggcgca actgctggag 180
 gatgcttttg ccgcagcgct cacaacaaac accagcgcca cactgaaagc gctccagacc 240
 attgacgcgg gaaagtggcc gcacatgggtt ggcagcgata tcgtctgcac gccgcctcta 300
 gagaaatccc ccgcgaagt cgacgcgttc tatcagcgca cccgccgggc gctgctggat 360
 acggttgagg gtgctcagt cctctggatc ctggaagcaa caatggaaga gctaaacgct 420
 gagaaagccc gtcagggtaa gtaa 444

<210> 5571
 <211> 195
 <212> DNA
 <213> Enterobacter cloacae

<400> 5571
 cgtggcagac acaaagtatg tggcgctcgtg cgcaagcgat acggcgtgct tctacgggat 60
 tggccggacg gtgacggcga cgggtgaatta cagctggtta gcatgggtgc gtctgatccc 120
 ctccaccctaa cctctcccc aaaggggaga ggggacgatt acgccctcgc ccttttgggg 180
 agagggcccg ggtga 195

<210> 5572
 <211> 210
 <212> DNA
 <213> Enterobacter cloacae

<400> 5572
 cacttcatgc tggtggttagc aagcttaacg ccggggccagc gcatgcgccc ggcggataaa 60
 cgtcacgacc cgatgatccc gccgtccgct ttggtaatca ccaccgttga cgatcgcgga 120
 cgcccgttcg ggctggcgct tggccagttg gaaacagcgc gcggtattggc cgggtcggtg 180
 atatcatccc cgccctcccc cggatgcgga 210

<210> 5573
 <211> 195
 <212> DNA
 <213> Enterobacter cloacae

<400> 5573
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 cttcacctgc aacttcccga ttctgcggat ctctttgaac tggctggcac ctgtgcggcg 120
 tacgtgagcg tactggtgga aatggacgat gcggtgacat tttctacgct ctgtaagcaa 180
 ctgctgggtt gttag 195

<210> 5574
 <211> 453
 <212> DNA
 <213> Enterobacter cloacae

<400> 5574
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 gctggaatga ccgtaagacg gcataaggag aacgttatgg gatggaagta tgagcaatca 120
 actggcaaga tgtataaaga cggcaaatta attgagacag gatattccgg tgcccttacc 180
 aataaaaaata atccggaccg tcagcatgtg aagggtctgg gtccattgcc gcgcggaaca 240
 tataaaattg cgggacattc gaattctaaa ggacccatta ccattatcct tgagcaaact 300
 tcgggagaga gttttggtcg ttcagagttc cgcattcatg gtgaccataa gtacgggtcca 360
 gccgattttg cttcggaggg gtgcattatt ctctcactgt caacgcgacg taaaatcctt 420
 cgtgacggcg gtgagcttga ggtagtgcga tga 453

<210> 5575
 <211> 204

<212> DNA

<213> *Enterobacter cloacae*

<400> 5575

cctttaatgc	aaattgcctt	acatgctaata	attatcaggg	atgaaataca	gtgttcagac	60
ttatcggttca	tgcggcagtc	agggaggaga	tcctctcatt	gcctgcggat	gtttatcaag	120
aagacgcaaa	aaacgccctc	tgctgaactc	cgtctggcac	tgaaacgaca	acaggagatg	180
ttggatgagc	aaaaagatta	ttga				204

<210> 5576

<211> 234

<212> DNA

<213> *Enterobacter cloacae*

<400> 5576

acatttttat	tgaacgtcct	tggttgctat	cgccataaaa	tcaccggtta	atcgccgttg	60
atgatattgc	aaattattac	catttgcatt	agcgttggtta	acaaatttcg	ttggggaaca	120
agcggtaatg	aagagggtat	ggagtgggtt	gctgttgggg	atcggcgcgc	tgcccgcctg	180
ggcggcaacg	tgcgagcaga	cgtcccgga	ggcgatatt	cagggaagt	ttga	234

<210> 5577

<211> 258

<212> DNA

<213> *Enterobacter cloacae*

<400> 5577

aacggaatgc	gcggggaact	gttatttttc	acccatcacc	tcaagatcgt	tatacacctg	60
atagcgggtt	acgcccagg	cctgcgcgc	gtgctggacg	ccaccccgca	ttttgaaaat	120
gccttttagcg	tgcatttcag	cgactatatt	aagccgctgc	gctttctgta	cctttttgcc	180
cggaaaccgaa	tgtttatcga	tgatttcctg	gatagactgc	tcaatgatgc	cgcccagggt	240
catatcctgc	gggtctga					258

<210> 5578

<211> 372

<212> DNA

<213> *Enterobacter cloacae*

<400> 5578

tatttaagga	ttaaaatgaa	atttttgact	ttaattgtgg	ctataacgct	gctgacagca	60
tgccagctgg	tacggccttt	tggcgaggct	accacttata	aaccggttac	cgtttcagcc	120
catcccggac	tggaggagcg	gtatcaactgt	atgcgaagcg	cgcttgatgc	tgaaggctac	180
gaggtggaac	acatcttccc	ggaacgcgat	acgcctaact	tttttgatat	ctccagaggg	240
agcaggctga	ttgcccagg	cgatatgtct	cataccaccg	gggcaaactt	tctggatatt	300
acgcttatct	ccggttcgaa	acagactaat	gaagatcttg	cccgtgtcat	agcccattgt	360
gtcagcagat	ga					372

<210> 5579

<211> 924

<212> DNA

<213> *Enterobacter cloacae*

<400> 5579

acgggtacca	gttcttgctt	atactggtac	tggcactacc	atgcaggaga	tgttatggcg	60
ctgatgtctg	aacctgtcac	ctctctccag	gatgacaccc	gcaagcagct	gggggcgttt	120
ttgcgtgccc	ggcgcgaaa	cctcgatccg	cagcgtctcg	gottaccccg	cagcggccgc	180
cgccgcacgc	cgggcctgcg	ccgggaggag	gtggcgatgc	tgcgggatgt	cggcgtgacc	240
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atcgcaaaa	cgctgcaatg	caccccgacc	gaagcccggc	atctttttgt	gctcgccggg	360
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cgctgtctgg	ataccctgat	gccgaaacct	gccagtattc	agaaacggaa	tttcgatatc	480
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gaagatcgca	actgtattta	cctgttcctc	acccatccgg	cgtggcgcg	gcggctcggc	600
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cgtggcgacc	cgctctggga	agcgaagctg	gcgcgttttt	ttgcagtgtc	cgaagagttc	720
aaaaccctgt	ggcaccagcg	taacgacgtg	cgcgcgctgg	agaaccagct	caagctgttc	780
acccatcccg	agctggggga	ttttcatctc	cagcagatgt	actggtactc	cgccccgcga	840
aacggatcgc	ggctgctggg	ctatttaccc	gtggatgagg	caggggagag	ggcgatggcg	900
tggctggcgg	agcaggggat	ataa				924

<210> 5580

<211> 228

<212> DNA

<213> Enterobacter cloacae

<400> 5580

cggcgtaatc	atcctatcta	taatgagtgc	ttactcactc	ataatgccaa	agcggtcgta	60
ccgggacata	acgggcgttt	tgtgctggcg	aaacatacct	ggaacgatcc	actgatccag	120
ctggcgaaag	ccagcaagga	taaaaactac	cggctgctga	cgccggagct	ggcgagagccc	180
gtgcggggtga	gtgataccac	gcaacaattt	cgcgagtggg	gggaataa		228

<210> 5581

<211> 192

<212> DNA

<213> Enterobacter cloacae

<400> 5581

aaacaggcgc	ttacgccagt	ttcaagccag	cctgattttc	ttcatgaaac	acccatcgcg	60
aaagtagcgt	taacgcacat	ttttcacagc	acaattgact	gttataacag	tatttttctt	120
acgctgtggc	aattttatta	ttcctctacc	atgctcatat	cacctcactc	tcactcgtgg	180
ggctttttgt	ag					192

<210> 5582

<211> 186

<212> DNA

<213> Enterobacter cloacae

<400> 5582

agtgtcgctc	gcgtgctacc	gcgacaaaat	agcgcagata	acgaagtctc	atatcaaaaa	60
cgtctcaaac	cagcatggat	tctatatagg	aactctctgc	tgaatcgggt	caacatttat	120
ttaaccttta	taaataaagt	tgaagaggac	gggcatgatg	atgcattcat	ctgcatgcga	180
ctgtga						186

<210> 5583

<211> 228

<212> DNA

<213> Enterobacter cloacae

<400> 5583

ttgacagcca	acgcatttgc	ggtcacgttc	aagaacatgc	acattgtgat	tcattgctgtg	60
gagcccagtc	gggcacaggt	cggcgcagtt	accacaatgc	agacagcggg	cggcatggaa	120
aaaaacatcc	cgttcggcag	tttgtccttc	cggatttgcg	caccaggcac	aacgcactcg	180
gcagccttta	aaaaagatga	tgctgcggat	acccggcccg	tcattgtaa		228

<210> 5584

<211> 219

<212> DNA

<213> Enterobacter cloacae

<400> 5584

acgccgatct	ctttaccgtc	gacgttgccg	ctaaaaggga	aattcttctg	tacttgctct	60
gcgtcacata	cgcttatcca	gctcatcacg	atcctccagg	cttttgtttc	atatatgaaa	120
ctctgtttct	tatttaatac	ggtcaatata	aaagcgatga	atgtttctgc	aagcgacaat	180

gtgacgaatt tggttaatcga tcagcaatta attaactaa

219

<210> 5585

<211> 258

<212> DNA

<213> Enterobacter cloacae

<400> 5585

gcggaacacg atggttcatt atctggtatc acctccacgg ccgcctctgc tgaaacggac	60
cacaagccaa agctaaaagt tcaactgctta acccggtctg aagtggcgac acgatgtgtt	120
catcgagcgc ttatatttata tgagccgcgc gccgcgtttt ataccgagaa ggtcgctaaa	180
aagcaaaaca aaaatgcgca ggttgccagc gtcgtcagga aaaatttcca gcagcggttt	240
caacgcaatg agaggtga	258

<210> 5586

<211> 201

<212> DNA

<213> Enterobacter cloacae

<400> 5586

aagagtgtgc tgcttgtgag aatgttcggg aaacgggcat tatccaaagt taaggcttct	60
atgcaagcat gggaaagatc cggttttacag cagattgacg ctgtgctgca atctgcgtcc	120
ctgattaagc gaatcgatga ccatgcaagc ctctcaattt tcagcccagg tgctggactg	180
gtacgacaaa tacgggcgta a	201

<210> 5587

<211> 204

<212> DNA

<213> Enterobacter cloacae

<400> 5587

gctgttcata gcgtcaagaa ggtccgcata tgccgggcctt tttttatgct ttttcaatat	60
cctgcaatac ctgattttgt gatctgtttg gcaaagccgg tgctttttgt ttacccttta	120
ctgacctgcc tgtctccatg ggggatggat tttgtgtttt ggtttaacaa aaggaagaat	180
aatggaaca acttgatgtt gtag	204

<210> 5588

<211> 321

<212> DNA

<213> Enterobacter cloacae

<400> 5588

ggagaccgtg gcatgagcga cacgctgaac tacaaccogg cgctgccgga aagccgccag	60
tttaccacac cggcagaggg cggtaatggc gccattcata agccgggtga ttacaccaac	120
ctgatctggc aaaccgcag ccgcgagccg gaaagctggg aagtgaagct gattgcgacg	180
ctggaagatc tcttcgagca gggcgttgaa accttgccgg agctggtaag cgggctgaac	240
gcggtgcgca tgcacgacca gcaggccgag ccgtggagcg acgccagctt ccgggcattc	300
ttacaggtta acggctactg a	321

<210> 5589

<211> 942

<212> DNA

<213> Enterobacter cloacae

<400> 5589

atacaggaat gcgaaatgac caacaccggt tttattattg gtgcgtaccc ctgcgcaccc	60
tcgttttcacc agaaagggga gcaggaagaa tacaccttct ggccgggaact ttccgacacg	120
ccaaatatct gcgggctgga acaaccttgc cttgaaaatc tccatccgtt tggatgatgaa	180
tggctgtttc gtcatacgcc gggcaactgg cagatcgttg tcacagccgt tatggaaacc	240
atgcgccgcc gcggcagcaa cggcgcgttt ggccctggcg ccgcggacga agaacagcgt	300
aaagcgtgca ttgaatatta ccgccatctg catcaaaaaga ttgatgcggt taacaccgcc	360

tttcccggga	aagtggctgc	tctggaaatg	caggccgcac	cgcaggcggg	taatgaatct	420
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gcggcactcg	ctgccgggaa	actggggggc	ctgatgtttt	cgggcacgac	ccctcacggt	720
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atgtccattg	aacatgtaaa	agcgcgtgtt	actgcggcga	gcgccgcaac	attgaaattc	840
tcgggtatta	aattactgga	aataaatgct	aatgctgacg	tcagccatcg	catcgctatt	900
ttgcgcgacg	gcattagcgc	tatgaataaa	gcatacacaat	aa		942

<210> 5590

<211> 333

<212> DNA

<213> Enterobacter cloacae

<400> 5590

cagccactga	ccaggggcgt	aataaaaaatg	atgatgaagc	gtgggggtgtc	actctttctg	60
ctgctcttat	taacaggatg	cagtgtcttct	gaggagatac	ctgtccaaaa	agcgcagcag	120
gggaaaaatga	gcccggagcg	ttccctgaat	atggaacagc	tgtgcagggg	tcaggcggct	180
caccgcgtata	attctgaagc	acagaaaatt	catataaacg	gcttcgagcg	ctttcagggc	240
agctatgaac	tgaaaggcta	tacggcgcgt	aaagagggtc	ttgtctgttc	ttttgatgca	300
gacggccagt	ttttacatct	ctcaatgcgt	taa			333

<210> 5591

<211> 225

<212> DNA

<213> Enterobacter cloacae

<400> 5591

cgcaaaacaac	gcatacgccc	gatgccagcc	ataccaggcc	agaccaagcg	caataagaat	60
agccccattc	atcataacat	cagactgata	atgaagcata	tcggcccgtg	cagcctggct	120
ttgtgttttg	cgtacaaccc	agcgcgtgga	agttacaaga	acaagtgtgc	ttataagtgc	180
aactaccggt	acgaccacgc	caacgcccgg	atcgtttcac	ggtga		225

<210> 5592

<211> 477

<212> DNA

<213> Enterobacter cloacae

<400> 5592

gcgccagtgc	ggttcgcctc	tggcattatg	aaaaccgggg	atattgcccg	cccagtcgac	60
attcagttta	agtctgtcgg	ggcaatagat	gacgttctgc	aacaccagat	cgtaaaccga	120
ggcgtaggag	tgtttgtctt	cagcgcggat	gtagaacagg	tctccgcgcg	tgatgcggta	180
gggacggtcg	ttgaggacgt	gcaggccatt	gccccgccac	accagcacca	gctcgcaaaa	240
ctcgtgggtg	tgctcggcga	agacgttttg	cgggtagcgg	tcggccaccg	cgacggcctg	300
actcgcggag	gcaaaaaaat	catctttgcg	aagaatgagc	tgagcagcca	caccacaacc	360
tctacggcga	ataaccggac	attattagcc	tttttgcagc	aaaaaaacgg	tgactgcctt	420
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<210> 5593

<211> 417

<212> DNA

<213> Enterobacter cloacae

<400> 5593

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ctctttgtct	ggccttgccg	cgaggaaaaa	ataatggaaa	acatgacggt	ctttattctc	120
ggcatcgcca	ttctttctgc	cggaacctat	ctgatgcgtc	ttggcggagc	gaagcttggc	180
aaccggctgg	cgctttcaga	acggtcgcag	gcgctgcttt	cagacgcggc	tacogttttg	240
ctgttctccg	tcgcgttggc	gacaacgttt	tatgaagggg	accattttgc	cgggatggca	300

cgtgtgctgg gcgtgggggt cgcggtgttt ctggcctggc gcaaaatgcc gttaattgtg 360
gtgatcgtcg cggcgggcgt ggtgaccgca ctgctgcgtc tggcagggcat aaactaa 417

<210> 5594

<211> 216

<212> DNA

<213> Enterobacter cloacae

<400> 5594

agaaatgatt caaccacaa tcattacctg atgcaaaaac gcgccttatg gcgcgaaaac 60
gctcatttta ttgacacaga ccacacattt cgatttcgat atttctcgtt tgtgctcgtt 120
aacgataaat taacactatg tctacagggc atcgtgactg tcacgggcgg tcacgcaaac 180
aataaacatt actcttttgc aggattccga ttatga 216

<210> 5595

<211> 204

<212> DNA

<213> Enterobacter cloacae

<400> 5595

ccttataaaa actacggcat tgataatcat tttcaatatc atttaattaa ctataatgaa 60
ccaactgctt acgcggcatt aacagctgtg ccgcccagaca ataatggaga ggattatgag 120
ttatacactg ccatooctgc cgtatgcta cgacgcactg gaaccgcatt tcgacaagca 180
gacgatggaa atccatcaca ctaa 204

<210> 5596

<211> 339

<212> DNA

<213> Enterobacter cloacae

<400> 5596

cgatcagtat caccgtctgc tgtcagcggc gggattatcc accagctgga ccagaacgat 60
gcagaagcgg cggataagcg gcaagatcga gacgagttcg cggagattat gggggaaata 120
gttcccgag aaagtaggcc gggtaaggcg aagccgccac ccggcacata cggttacgaa 180
cgcttataca gcggcagcca cagcgttaac ctgagccgc ccagcgggct gtcacggct 240
ttcaccagc caccgtgctg ttgcatggcg gtttccacaa tcgccagccc cagtcccgt 300
ccgcccagatt ccgggtcgcg cgcctcgtcg gtgcggtag 339

<210> 5597

<211> 201

<212> DNA

<213> Enterobacter cloacae

<400> 5597

ccgatgaacc cgcataacgt tcattctcgc tgcctcgcga gtgtagccgt gtttagagat 60
gaagaaaatc ccattcatca gggttttgcg aaacctgaca gtgaaacaaa aaggaaagtc 120
ttttttgtga cagtttagata caattcaccg tctcactccc gccattcgat tcagggaagg 180
gttgatgct cgaaatgtta a 201

<210> 5598

<211> 207

<212> DNA

<213> Enterobacter cloacae

<400> 5598

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ccgcaagtct gggtaattc ggcgaaatgt aaaataaccgt caatgcttac attaatattat 120
gttattaaaa acaacgcttt tatttatcgc attgataatt acaggaaaaa tattcaaaaa 180
aaacgtaaga aaggtttatt cagataa 207

<210> 5599

<211> 210
 <212> DNA
 <213> *Enterobacter cloacae*

<400> 5599
 atccgtctcg tccttattat ggcgagcatt tccacgatat gtccaacagt gccagaaaag 60
 tatgacagtt atttttttat tggggaattt agaggggttg gggaggggat gtcgggtggc 120
 gctgcgctta ccacgaccta cgggaccgta ggcccgtgca agcgaagcgc cgcggggcaa 180
 ttcaaacaga ctactccttc ggcagcataa 210

<210> 5600
 <211> 219
 <212> DNA
 <213> *Enterobacter cloacae*

<400> 5600
 ctagtaagaa aaatcggcgc aattctaaca gtccaggcaa acgtttgcga gcctattctc 60
 ggcgtgggga tctttttttc tgtgcggcct gtacagggca acaaacttga ctctgttcac 120
 gaaaatgaaa ccggtttcgg cgatctgctt gcaacggcaa tcccccttgc acatcatcaa 180
 actgaaaccg gtttctgtaa ctgtttttgc agaaaataa 219

<210> 5601
 <211> 294
 <212> DNA
 <213> *Enterobacter cloacae*

<400> 5601
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 gtgcgccatc acacaggcaa cttcgcaggc gcgacaaccg atacactgtt gagcgttggc 120
 cataataaaa cgattcataa caacacctgt ttttggttca ataaccttat tctttctatt 180
 gttatcgtat ttacccacag cagcatggcg acgcaatgtt caaatgccca ggaaggcgaa 240
 ctatttccag tgaacctgtg gcagatcaat ttaattcagg aagctgatga gtga 294

<210> 5602
 <211> 216
 <212> DNA
 <213> *Enterobacter cloacae*

<400> 5602
 cgctcaccg gcagcagtgg ctttgattcc acgccccgta cgttcgatca gccgcgtctg 60
 aagaaaactgc tccagctggc gtatttgcag gctgacggcg ggctgggaaa taccattac 120
 atctgctgcc gcagaaaagc tgcgcggttg aacgaccaga cgaaaagtgg cgaggtgtcc 180
 cagattgagc gtggtcatgc aaagtttctc ttatag 216

<210> 5603
 <211> 480
 <212> DNA
 <213> *Enterobacter cloacae*

<400> 5603
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 gctggcgcac tggccgcacc gttggatggc ctgagcgccg ctgatgttaa tggcccggcc 120
 gccgtagcgc cgcagaaaaa accccagccg ccagcaaaac tgatcgtcga cccaccgctg 180
 gcgggaccgc tgagtaaagg tgcggctctt attcagtaac gcgtcgaaaa cctgcgcatt 240
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 gtggtggatg acgcgccctg gcaactgggtc gataccagcg gcgagccggg gatcctggtc 360
 gggctgcccg ccgggaaaca caaagtaacc atcatcgctg ctgacccgac gcataagccc 420
 atcgaccata aaaccgttga gttcaccgtg ccgccacacg ccgcggttca tcacttttaa 480

<210> 5604
 <211> 198

<212> DNA

<213> *Enterobacter cloacae*

<400> 5604

gtttattggc	aatttaaaca	gggtggacaa	ctatgcttaa	aagatgaaag	actattcagc	60
ttacagctgt	tcgttgaatt	atggagaatt	gtaaatcccg	aaaaattccg	aatgtgttat	120
attccactta	aggatatatc	ttcgaaaata	ttgaacatta	aatccacaaa	agaacaaaag	180
gattcactat	ggttgtga					198

<210> 5605

<211> 849

<212> DNA

<213> *Enterobacter cloacae*

<400> 5605

ccatcatcgt	tgctgaccgc	acgcataagc	ccatcgacca	taaaaccggt	gagttcaccg	60
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ttaacagcgg	cgtctgtggc	ggtttccacc	agcgcgctgg	cagagacgaa	agccagcgtg	180
gtgctgggtg	acggggcggt	tgccgacggc	agcagctgga	ataaggtgat	taccggctg	240
caaaaacacc	ataacgaggt	cattgcggtg	caacttccgc	tcacgtctct	gaaagatgat	300
gtgcgcgcca	cgcagcgtgc	tatcgcccg	gctcatggcg	acgttgtgct	ggtcgggcac	360
tcctggggcg	ggtcggtaat	cagcgaagcg	ggcaataatg	cgcggtgaa	gtctctggtt	420
tacgtttgcg	cttttgccgc	ggattccggc	cagtcgaccg	cagatctggc	agacagttat	480
cctgctccgc	cagggagcgc	cagcctcgct	aaaacgtcag	aggggtattt	atatctgccg	540
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gccgcgacgc	aaagccctat	taaggccgat	gcgtttgggg	agaaagtccg	gcatgccgcc	660
tggcatgaca	aaccgagctg	gtatgtgatc	agcaaaaatg	accggatgat	caatcctgag	720
cttgagcgcg	caatggcgaa	gaaaatcaac	gccaacacca	cggaggtagc	ggcaagccat	780
gtatcgatgg	tcagccagcc	ggacgtcggt	acccgtagca	ttgaacaggc	gttatcgggt	840
caacagtga						849

<210> 5606

<211> 1233

<212> DNA

<213> *Enterobacter cloacae*

<400> 5606

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cccagcgata	tggtctcctg	caatcttget	tttattgatt	gcaagctgcc	cggctcgcat	180
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aattattccc	agccgcacgg	ctttaacatt	ggcgcgcgcg	ctatgccaaa	aggggtgacg	300
aataacctgc	atctgcattt	caccgcagaa	gtgttcoctga	tccatgaagg	gacgtggcgt	360
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gaggcggggc	aagaagtacg	cattatcgcc	cgggaacggt	cgggtgatctc	cattccggca	1020
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ggcgatcagc	gtaagcgcc	ctactgggac	gaggcgatcc	tgcaaggagg	gagagaacac	1140
aatcgctgta	tcgatcctga	tggtacgtg	gcggatgccg	acatcctgcc	agccacggcc	1200
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<210> 5607

<211> 603

<212> DNA
 <213> Enterobacter cloacae

<400> 5607
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 acacgcgttg agagcagcgc agggatatcg ctgagtaacg atttcccacc ctgcccgcct 180
 ccgcgtgaac tgacattcga agaagccatc tgggcgcggy tggcctggca atattatgtg 240
 aacaacacgc agccgaatgg cctggccaac gcgcacgacg gtgaaccctg gctcagcctg 300
 tggagcaccg gcagctatct ttttgcggtt gcagccgcca ggcagctcaa cgttcttact 360
 tccgaggagt ttgatgaacg catcgcggcc gcactggcgg ccctcgcaag ccttccactc 420
 aatcctcagg ggctgccgcc gcctattacc atgccgacac acttgagacc ctgggcatac 480
 cggacgcctc ggctatcggc atgggccgcc tgcttaacgc cctgcaaacg ctgctgtggc 540
 gctatcctca gcacgctggc gccgtacgca atctgctcga tcgctggaag atgggcgccc 600
 tga 603

<210> 5608
 <211> 1434
 <212> DNA
 <213> Enterobacter cloacae

<400> 5608
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 gcagggtggc gctggctgac caaaggcggc tggcacacca ccgctcgcat cagtagcctg 180
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 tttgaaaacg gccttgtgaa gaatgatggc tattttgccc gccgcacgct ggatcctttc 1380
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<210> 5609
 <211> 189
 <212> DNA
 <213> Enterobacter cloacae

<400> 5609
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 aaagtgtctg aagtgaatgg tgaaaacatt gtggccgtgc aggccagcga tgagcagagc 120
 gagaaatata acctgaaagc ggcgacgta gttctgtact ccgaagaagg tgactttggc 180
 gtctgctaa 189

<210> 5610
 <211> 1665
 <212> DNA

<213> Enterobacter cloacae

<400> 5610

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aagctgaaat	caatactctt	ttttcctctt	ctggccgggc	ttgtggcggtg	ctggctctca	180
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aaccgtccat	tcctgaacag	tacgcccgcg	gtgaagacat	ggtgtgaaca	aaccgggacc	1560
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<210> 5611

<211> 225

<212> DNA

<213> Enterobacter cloacae

<400> 5611

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ttacaccacc	tttgcatgct	tatgcaacac	aaaaaattaa	aattctcaca	acaagatcga	180
gatcacttta	caaacatgaa	accttttctg	aacttcaaat	attga		225

<210> 5612

<211> 969

<212> DNA

<213> Enterobacter cloacae

<400> 5612

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ggcatgggccc	gcctgcttaa	cgccctgcaa	acgctgctgt	ggcgtatccc	tcagcacgct	180
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gcctggtaag	cctgttccg	caacggctgg	agcgaagcac	tgcgccagca	ggtgcaaaag	780
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atcgttgatg	cgataccaa	tgcggtcgtc	ctcgaaagcc	tggcgtacat	tgccacgggt	900
cagatgcttt	gtctggcctg	ccttggtccc	gccactcccc	aaacctcttc	agcaggagcg	960
aagccatga						969

<210> 5613

<211> 519

<212> DNA

<213> Enterobacter cloacae

<400> 5613

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aaccgcgtcc	tgcgggaaaa	tgataaacgg	cacttttttg	aaacgttctg	ggaaacgttt	180
gtccatattg	caccggagac	agaacagcac	tttgcccggg	accagggcgg	agatggccag	240
cagacgatct	tcaagagctt	tttcgccatg	cttgccgttg	acggtgcgct	gtttgtacct	300
gattttcttg	aacgcctggc	gcgggagcag	agtgatgaag	gactaggcct	gccaccgcga	360
tttttcggcc	tctggcgagg	ggcaatgctc	aggaccgtgc	gcgcctgcga	tccactttgc	420
gatgaagaga	tctcacagc	ctgggcgatg	gcaattgccc	ccgggctgga	gtatctgcgc	480
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<210> 5614

<211> 249

<212> DNA

<213> Enterobacter cloacae

<400> 5614

aacaaagcca	tcgtttctga	agagacgaac	gcgctcccgg	cgaaaatact	gtttaataaa	60
caggatttac	cgttactttc	tttagcgoga	ccgatgcccg	ccaggattaa	aagtggcaac	120
ctcaggggcaa	agctaattat	ttacacagga	aatagttggt	tatttatatg	tttgcgattt	180
ataagcctta	ttattttgtg	aggtattgat	ttatttcggt	atgaaaatga	tatagctata	240
aatgtctga						249

<210> 5615

<211> 201

<212> DNA

<213> Enterobacter cloacae

<400> 5615

tgctcatcaa	agggacgcag	cagattgagg	aaaatctgca	ttcaggggtg	gaaccattca	60
acgctgtgtg	ggttgctgtg	cggggagctg	tcgccactgg	cggatgtgct	cgatcagggc	120
tctgagcttg	ggggccatat	tgtggcgtg	gggaaaatag	agataaaaac	caggaaaaga	180
tgaagaagaa	gcacccagta	a				201

<210> 5616

<211> 951

<212> DNA

<213> Enterobacter cloacae

<400> 5616

tggcgaaata	taacgtcgcc	gcgcgctgga	tacctacta	aggaagggct	gatgcgggat	60
aaattttttg	tgacctgcgc	actgctgtgc	gttgccactg	gcgcagagtc	ggcgccgaag	120
gacgatgcgg	attcactacg	tgacaagaac	ggcgagccgg	tgcaggctgg	cgtgttcacc	180
agccgctggg	gtcgctgttt	ctccggtaat	gaagacgtct	tctctggcgc	gotgagcttt	240
agttcgggac	taaaagagca	gtggatgact	atccctaaca	gctcggacac	cgagagcag	300
aaacgtaaat	acaaccagac	gcttaatctc	agcctgcaat	actcacccta	cagttactgg	360
tttgcgaacg	tgacatcgcg	tttgccgggtg	acggacacca	gccgctacac	ggccgatttt	420
cgttacagtt	ttggctatga	tgactggcat	gccaacactt	tcagcctggg	gtacagcaat	480
tacggggata	accgcttctg	gacgtcagga	aaccgtcgcc	acacctattt	tgagcagggg	540
gccgtgacgc	tggcgtataa	attttcactg	ccgaaaccga	tagagaatac	gctcctgatt	600

aacaaaggcg	actctatcat	ttgccagatg	ggctacagct	gggttccgcg	ttattacgat	660
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ggtaaattcc	gggaaggcac	cgtcagcgtc	atctggttct	taccgcttta	g	951

<210> 5617

<211> 981

<212> DNA

<213> Enterobacter cloacae

<400> 5617

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taagccacgc	cgggtgthtt	cactaccccc	gaaaaacagc	tgcattgagc	ttcccagtht	180
atgcgcctga	cgcttgaggc	gatgcacagc	ttcccgacgc	gagcgggtgc	gacggaggat	240
attctgtgca	gccagaaccc	gggggatgag	tactatgcgg	cgcagcgtac	cgtagccccc	300
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acctgggcgc	atgcacatct	tgttgatggg	gccgtacgcc	aggagtggct	gcttcaggat	420
cgtgcgcgca	ttgtggcgca	actggggctg	gatgtccgcg	atthttgctt	taacctggcg	480
accatgcgcc	agcagcttgg	gctggaatct	gtgtctgctg	agacgctgga	cgcccgctgg	540
gcgggcgggc	cgcaggcgca	cgacgtggaa	ggggcgctgg	ccggggctgt	tgagcgctac	600
ttaacgatgt	gggcggggcg	taacagcggc	gtgggtgccc	gtctctatca	cccggcgggc	660
acgctgtacg	cgccggggca	ctgcctctgc	accggcgaa	aggaaattgg	cgcacagctt	720
tcgggttatt	gcgcttcatt	tgcgcacagc	gaaacgcaac	ttcatcacct	gattgtgcgt	780
aaagatccta	atgagccgat	tgcactttca	ttgcgctggt	cgttggttaac	ctggcatgac	840
ggttacggca	aattttggtg	gcgcacccgt	aaaccctaat	caattaccgg	tatcagtcag	900
cttgaattac	gtgatggttt	aattttccgt	gaatacctgg	ggatcgatga	attagcgatt	960
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<210> 5618

<211> 183

<212> DNA

<213> Enterobacter cloacae

<400> 5618

gtcactgtag	atccgggtca	gcacgccttc	ggggccaaat	tgctgtttta	tccagcgcgt	60
gacctgaccg	gtgcgcgat	gctgcgtggc	gagcagcatg	cgcgaatcct	ggcgcggatt	120
attgattcgc	cgcgttacca	gcagcccatc	ctccacgcgc	tcacgcgtca	tgtattccgg	180
taa						183

<210> 5619

<211> 1257

<212> DNA

<213> Enterobacter cloacae

<400> 5619

aatacaagaa	acttttttagc	atggagaacg	cgaagcccca	tgagccagat	tgcgcctgtg	60
cttataaata	aagacgttga	aaaaccaacg	acatggcggt	acatcgcgtc	ggataaacgt	120
gatttacgta	ttgattttat	gcgcgggtatc	gccttagtga	tgatgggtgg	ggcgcacacg	180
gaagtgatgt	cgatatttaa	tatattttacc	tgggaaagggt	ttggtctggt	caccggcgct	240
gagggttttg	tgatcctttc	aggattttatg	ctgggaatgt	taaaccgtgt	aagattgcaa	300
aaagcagtat	tgttgactat	atcctgggga	ctttatctgc	gtgcatggaa	aatatatcgg	360
ataaatatca	tcattattct	ttcatttttta	ctgttaggat	atctgccgtt	tattaacgtc	420
tttgaggtga	cccatttttac	cgatcggttac	tcaggtacaa	cctggtcact	gtatccgggtg	480
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cattcgcttt	atacctttat	tttgcatgtc	tacgtcgtat	ttctgataag	ccagttcgtc	1140
acgttcgata	tgtggcgcca	ggactggata	gtgaacacct	tcattcacgc	tgccggcgctg	1200
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<210> 5620

<211> 381

<212> DNA

<213> Enterobacter cloacae

<400> 5620

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gtcactggca	ccattggcgc	actggggcgtg	gtcattgcc	gcgtagtgt	ggcgatcctg	180
accgttatgc	tacgcgcggc	atcgcgctgc	ggggcgcgcg	ttttcctgat	tattgtcact	240
ctggtgggtg	tggcggggat	tggttttgcc	gccgcgctgc	tgaccagta	catcataacg	300
gcagccatgg	tggtcggcct	gataggctctg	attatgctga	gcagccattc	cgcccgttac	360
aaccatcgcg	tcagaagctg	a				381

<210> 5621

<211> 189

<212> DNA

<213> Enterobacter cloacae

<400> 5621

atttataagg	gaaggtatac	gaagttgggc	tttttggtctg	gagcagtgt	ggcaacctgg	60
ttgtctttta	cctaccgcac	gcaaatagaga	gctgtttttg	aacaactggg	tacgatagtg	120
cagcaaatca	cgcagccttc	atcagagtct	cattctgata	tggtcacacc	ggaacagtca	180
tatccttga						189

<210> 5622

<211> 564

<212> DNA

<213> Enterobacter cloacae

<400> 5622

actgcgtcag	cagttaaactg	gaggagcaca	atgaaacggt	tctgttttat	ggcgcttgcc	60
ctgacgatgc	tgggtggccgg	atgtagcacc	gaggtgacag	agtatcgta	gcagcagcca	120
cggcttgata	tttttactta	cttcacgggg	aaaaccgagg	cgtgggggat	ggtgcaggat	180
cgcagcggta	agcagatccg	cggttttcac	gtcgagatcg	cgggggatgt	tatcggcgat	240
acgctgaccc	tgaacgagca	ttttgtctac	gatgacggcg	aaaagcagca	gcgcgtctgg	300
catatccgcc	gcgtagggca	gaatcgcttac	gaaggtacgg	cgggtgacat	agaaggtgtc	360
gcgacaggcc	aggcggcggg	caatgcctt	aactggcgct	acagcatgaa	cgtgaaggcg	420
gacggcaaaa	cctggctgct	gcactttgat	gactggatgt	atttgcagga	cagcaccggt	480
ctgttcaata	aaactgagat	gaagaaattt	ggcgtcacgg	tcgccacggg	gacgctgttc	540
tttaccgcga	aagagggcgg	ttaa				564

<210> 5623

<211> 183

<212> DNA

<213> Enterobacter cloacae

<400> 5623

ctcaccat	cattgttaat	aattattttc	accogtgact	acaaccgggc	taatgatggg	60
gggagtgtta	cttatttaga	ggtattaaat	attaatcctc	gtcaaatacag	gggaattgag	120
tgggaaaatc	attgcggctc	agcgggcgca	ttctcctgcg	tacctgcgcc	gctcaccggg	180
tag						183

<210> 5624
 <211> 186
 <212> DNA
 <213> Enterobacter cloacae

<400> 5624
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 caccttcgta ttatcaccgc gcattattca aaaagttcca cgggacaggg caccgatcat 120
 agcgtcagct atgtaccagc taaagaggct gccacgtcaa attctttaat tcatgagaag 180
 ggttaa 186

<210> 5625
 <211> 294
 <212> DNA
 <213> Enterobacter cloacae

<400> 5625
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 cgcgttgaca tggcgcagaa agtcctgccg cacctcgtgg cttttgtagt taaccgaggg 180
 gtttccatcc tgatcgatga tgatgcggtc gccatcctct acggcttcga taatttcctg 240
 gtgactcatg acctgcaaca aggattccgg gctggaaaag agcgtcatca gtaa 294

<210> 5626
 <211> 543
 <212> DNA
 <213> Enterobacter cloacae

<400> 5626
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 cagcgatccc gtgtcttgcc ccagagaatc atggctaccc acctgaaaac ggcgaaaaac 120
 ctccggttgt tccatcgctg ggcgcgcgcg ggcttcgcgc cgggcgggat catgctgctg 180
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 cagcggcgcc tgcaacatat ccgcgagtcg cgcgacgcgc tcggacaggt tatcggcggc 300
 aacgtcgaag aaaaaagcgc tgtggcgagc cagcgtggtg gcattgacgt tgccgccctg 360
 gcgctggacc caggccatga gtcgatcacc gccctgatag cgctggctac cgcggaacag 420
 caggtgctca agcaaatgcg cgagaccggc gaatcgcggt ggctcgtgat ggcttcggc 480
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 taa 543

<210> 5627
 <211> 186
 <212> DNA
 <213> Enterobacter cloacae

<400> 5627
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 gacgtcgtac ggggtgcagga ggaagagggt tatattcaga atggcggcga ggcaaactctg 120
 gcggaagggt tattttaatga aatgtttaag gaatataagt gcccatcagg caggtatggg 180
 cagtga 186

<210> 5628
 <211> 438
 <212> DNA
 <213> Enterobacter cloacae

<400> 5628
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 tttggcgaac atagcggggg gtccgcgcat cagcgcctatt tcacccactt gctggctaac 180

gtccagcaact	gtcgcctttac	cgttgatgcg	ccgttgacgc	agggcgatcg	ctttgtggtc	240
acctggatga	tgcactggtc	gcacccgcgt	attgcccggg	gtgcagtgcg	acagctgccg	300
ggctgctccg	tggtagacat	gcgcgacgat	cgcattgttc	gccagcggga	ttactacgat	360
gccggagaga	tgatttacga	acatctcccc	atactcggct	gggccgtacg	cggcgtgaag	420
cggagagtga	aatcatga					438

<210> 5629

<211> 528

<212> DNA

<213> Enterobacter cloacae

<400> 5629

tgcccgaccc	atcagcgtgg	tgcagctgac	tgcggaacgc	gtatgaagcg	ttacgggcag	60
gtatttctgt	tggccatcgg	ttttgatctc	tactggacgc	tgggtggtgt	gtttcgcgag	120
caggggctgg	tcattctggat	cgcgctggcg	gtgcttgcc	ggctgttatt	accgccatca	180
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ctgacggggc	tgattgcgtt	cacaggcgcg	tccctgatgc	cgctatggat	ggtggcgtg	300
tggctaattg	ttgccaccgt	ctggacgcac	ctgaccgcga	cgaccacctt	gccaggatgg	360
ttgctgacgg	tgctggcgac	tctgggcgga	ccggtagcct	acctgatcgg	cgagcatctt	420
ggggccatta	cgttttcagga	gccgaccttt	atcgtcgtca	gctggatgtt	ccccggctgg	480
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<210> 5630

<211> 468

<212> DNA

<213> Enterobacter cloacae

<400> 5630

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attgccgggt	gcattggggc	gtccgtggaa	gccgggctgc	tggggccgct	gggcgcagag	120
gtgggcgacc	tgtgggcggc	gttcagcata	tttagcgtgg	gaacggggct	aacgtttctg	180
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atcggcattg	ccatgacgat	gatcggcatt	ctggcaggcc	aggtttttaa	aagcctgatt	360
atcgaccact	atggcctgct	gggtacgcgg	caccgcagga	tcgatacaaa	acgcattatt	420
gcgctgggat	ttatcatcgc	cgcgctcatt	ctcgtggcgc	aggggtaa		468

<210> 5631

<211> 279

<212> DNA

<213> Enterobacter cloacae

<400> 5631

aatgcgccag	tagacgcccg	gagcaagtac	ctgcacctca	gcattgaagcg	cggcggaggc	60
gtcgccgaac	tggaaagtct	gcgcgccttc	acgcagcgtc	agcgagccac	cgcgcagacc	120
gttcagcagg	cggaaagagca	accatcgcgc	gacgcggacg	ttgcgcggga	tatcgggttc	180
aagcgcaaag	acgggatcgg	tcattgagcgt	tcactcctgc	tgaggggatg	gttatgcagc	240
ggcacgcgct	tcagccacag	cctgagcgcg	tgccagtaa			279

<210> 5632

<211> 765

<212> DNA

<213> Enterobacter cloacae

<400> 5632

agagggcctg	aaatgggaac	ggcaatatct	atgggtattga	tggtatgcgg	gtactgggtac	60
accagccgcg	acctctcaac	ccggttcaaa	attaagcgtt	cattcggctg	ggatgtctat	120
ttccttgtgg	cgtgtgatgg	ctgcattttc	gttttacagg	gogtgatcgc	caccggcctg	180
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aaatcgcggc	ggatctatat	tgggatgagc	cataccgcca	cgctggagta	tgaaaaaacg	540
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tgtatcgaa	ataactacag	caaatgggat	gccgagcatg	atattacgct	cgattcagag	660
cccaaaagcg	ccatggattt	tcgcaaagtg	atcatgctgg	atcagatcga	gagtatttcg	720
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<210> 5633

<211> 660

<212> DNA

<213> Enterobacter cloacae

<400> 5633

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gagaacaata	tgcacacgag	taaaaccctg	aaaaggctgc	tagccgtatc	agcagttgca	120
gcaatgttca	gcaccgttgg	cgtacaagcc	cagacgacaa	gcgccgcaca	aactcaaaact	180
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agcagtgaag	tgaaaacatt	cgctcagaaa	atggtcgacg	atcacggcgc	cgcgctgacc	360
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cataaagccc	tgaactcaag	gctggaaaaa	cagcgtggtg	acgcttttga	caaaatgtat	480
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agtaaaatcg	acgatccgga	tgtgaaggct	ctggccaacg	agcacacgcc	cgtcgttgag	600
cagcatctga	agtccgcgga	gcagatgtca	accactccg	gcgcatcagc	cgataaataa	660

<210> 5634

<211> 258

<212> DNA

<213> Enterobacter cloacae

<400> 5634

cgagatagtc	gcgctatggc	gcgagatgac	tcgccgtcgc	cgtcgctggc	gggtgctttt	60
cacgggctga	ccggaaccgc	agctttcttc	ctgtgcgtgg	tttttagtca	aaaaaaagcc	120
ccgtactacg	acggggccag	gctgcttatt	tcgctgttat	ttatccagcg	cgtaggcaat	180
cacgtagtca	ccacgatccg	gcgaactggc	tgcaccgccg	gcagagatca	gaatgtactg	240
tttgccggtt	ttcggtga					258

<210> 5635

<211> 573

<212> DNA

<213> Enterobacter cloacae

<400> 5635

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gtgattatga	ttattctggc	ggtgattggc	ggcgcaacgc	tgagcattca	ggctgccatt	180
aacgggcaat	taggcagcag	cgtgggggta	ttcaaaaagc	cgtttctgac	gttttcogtc	240
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ttttcagtga	gccgtttcgg	ggcgcgtcgc	tgcctgagta	ttgcgctctt	cttcattttac	540
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<210> 5636

<211> 198

<212> DNA

<213> Enterobacter cloacae

<400> 5636

cagcaaaaaa	atccggggccg	tcaaagccgc	ctgatcggtca	gaacgactca	tcacctgtcc	60
tgccgcccgcg	ggccggaaaac	ggctcgcggc	ttaatcatgc	attatgtoga	tcttctcgaa	120
aacaatgcga	ttgaacattt	taatctgttc	tggcgtaaaa	tttggttaca	gcatttcttc	180
tcgtcagacg	tatgttaa					198

<210> 5637

<211> 1131

<212> DNA

<213> Enterobacter cloacae

<400> 5637

atcgcgcagt	tcatgaagaa	ccctcatgtt	gcagtgaat	taagtcactt	ccctgcgcc	60
aggggctcag	gcataaatta	tgcattgata	acgttcggcg	aacatgaact	taggatgcac	120
aaccaaatga	gtcaggcttt	cacatttacc	cttaagcgca	gttgctttga	tgaaaattat	180
aaccgcgcag	aaaacacgcg	taccaccacc	aacttcgcca	acctggcgcg	tggcgagaag	240
cgtcaggaga	acctgcgcaa	cacgctgggt	atgatcaaca	accgctttaa	cgcgctggcg	300
agctgggata	acccgaaagc	tgaccgctat	gccgtcgagc	tggagattat	ttcagtcgat	360
atgaatatcg	gcggcgattt	taccttccc	gccatcgaaa	ttctgcaaac	gacgattgtg	420
gataaaaaaa	cccacgagcg	catcgaaggc	atcgtcggaa	ataacttctc	atcgtatgtt	480
cgtgactatg	atttcagcgt	cctgctgctg	gagcataata	aagatcaacc	cogttttacc	540
ctccccgaga	attttggcga	gctgcacggc	aatatcttta	aaagcttcgt	tcattctgcg	600
gaatatcagg	cgaacttcaa	aaaagcgccg	gtgatctgcc	tgagcgtctc	cagcaaagac	660
acctatcgtc	gtaccggtaa	ccaccaccgc	gtgctggggg	atgagtacca	gccggacggc	720
gagtcgctaa	cggaaacagta	cttcgcgaag	atgggcctga	aggttcgcta	tttcatgcgc	780
gaaaacagcg	tgcgcctttt	cgcctttctc	ttcaccggcg	atttactgcg	tgattacacc	840
aatctggagc	tgatcggcac	catcagcacc	atggagacgt	tccagaagat	ctatcgaccg	900
gaaatttaca	atgccaattc	cgtcgcggga	cagtgcctatc	agcccgacct	gaatcagcag	960
gatcaactcat	taacaaaaat	cgtctatgac	cgtgaagagc	gcagccggct	ggccattgaa	1020
caggggaaat	ataccgaaga	gcgggtttatc	aaaccctaca	aaacccttct	tgagcagtgg	1080
tctcatcaact	tcacgctttc	atttaatacgc	gataaaaagg	tcttctcatg	a	1131

<210> 5638

<211> 210

<212> DNA

<213> Enterobacter cloacae

<400> 5638

ggatgtcacg	cgatgaaaca	tttactgatg	acgctctttt	ccagcccggga	atccttgttg	60
caggtcata	gtcaccagga	aattatcgaa	gccgtagagg	atggcgaccg	catcatcatc	120
gatcaggatg	gaaacgcctc	gggttaactac	aaaagccacg	agggtcggca	ggactttctg	180
cgccatgtca	acgcgctgaa	gagggcctga				210

<210> 5639

<211> 210

<212> DNA

<213> Enterobacter cloacae

<400> 5639

gatgagcagc	atgatggagc	cgtcacattt	aaacatgcat	ttatgttgca	ttatttgaac	60
aagctgttat	tgtcccaaag	ccttagagca	cataaacata	agaaaagttt	tgacttaaac	120
tcgccccgca	tcaggggcat	tttttgggt	gtctgtaaac	aaaaaaccgc	ccagaagcgc	180
gtttttgtgg	tattcgagaa	aattatttaa				210

<210> 5640

<211> 330

<212> DNA

<213> Enterobacter cloacae

<400> 5640

aaaaccaa	atcgagggtat	gaaaatgaaa	aaagtattag	ctctgggtgt	tgccgctgct	60
atgggtctgt	cttccgctgc	attcgcggct	gaaactaccg	ccaccgcagc	gcctgcggct	120

tccactgctg	ctccggccaa	aacgggtcac	cataaaaaac	atcacaaagc	ggctaaacca	180
gcggcagaac	aaaaagcgca	ggccgctaaa	aaacaccaca	aaaaagcggc	aaaaccagcg	240
gtagagcaga	aagcccaggc	ggctaaaaag	catcacaaaa	aagcagcaaa	acacgaagcg	300
gctaaacctg	ctgcacagcc	agcagcgtaa				330

<210> 5641

<211> 219

<212> DNA

<213> Enterobacter cloacae

<400> 5641

catggtgatt	gtctggcccc	tgaagcactt	caaggatttt	taaccgagga	agcgttactt	60
tcaggccagc	tttctttaat	gcggtattgt	tgtcagtcac	gcggaatctg	tcctgttgct	120
aaacgattca	cttcaaaaga	agaagtgcac	gaaaatgcac	ttgggataat	gcgtctcatt	180
atagaactgc	cgtgcctaaa	tgaaaagttg	caagcgacc			219

<210> 5642

<211> 231

<212> DNA

<213> Enterobacter cloacae

<400> 5642

attaaacctc	cgcttttatt	ttatatatat	gatttcctta	tgtttaattt	agctaaaggc	60
ctttcgtata	aacagaagtt	aaacggctca	ttttttctta	taatcgacaa	aagccatcca	120
gatggctgtg	aggggtggtg	ttttttgtgc	tattgcgtaa	ggattgtatt	aagcgccata	180
aaaatggggg	tattttttta	tctcaggata	tttcgtggaa	acaaaacgta	a	231

<210> 5643

<211> 462

<212> DNA

<213> Enterobacter cloacae

<400> 5643

tccttaagtc	agtatcaggg	aggtgtaggt	atagaaaaga	ataaggaact	tgtcgccagt	60
caggcagcgt	atagcgggta	tattgtggag	tttaataatg	gctcccgctc	ttggataaat	120
agggaaacat	tgctcgctcg	atggttcgac	aatccgcagg	tgctcaaaa	gggaaggatg	180
cgctttcaga	agacaaagat	gaatcttttt	gcttatcttc	ttgaacatgc	tgtgcgaaaa	240
gaggtcagcc	gtgatgaatt	attacatcag	gtatgggaaa	agtatggcct	taagtcatcc	300
agcagacaac	tttggcatgc	aataggccag	cttaaaactga	gtctgtttac	gctaggtatt	360
ccttacgaat	ttattcagtc	gaataaaggt	aagacctatt	cactggaaaa	agtaaaggtt	420
ttctttatta	cgcaatccga	tattaatgat	gatgcatatt	aa		462

<210> 5644

<211> 258

<212> DNA

<213> Enterobacter cloacae

<400> 5644

tatatgaatt	tggcctattt	tttatttttg	totataactg	ttatgcttac	gagctttatt	60
attaaatcac	ttgtcgtatt	ggtaaagttc	aaattacttc	gtgatgaacg	tctcgaatat	120
accagcaata	aaaatattga	tgagatgtac	gattttaatga	atgcgaagga	agaaatcctc	180
ataaggcatc	ataagcagat	gttggcattg	catctttcac	tattaatatt	cgttctattt	240
attgcttaca	tttactaa					258

<210> 5645

<211> 297

<212> DNA

<213> Enterobacter cloacae

<220>

<221> unsure

<222> (139)

<220>

<221> unsure

<222> (208)

<220>

<221> unsure

<222> (226)

<400> 5645

ttagctgccc	ttcaaccagc	cgggcaagat	gcccgtctgc	ggtcgacggc	gcaacgtctg	60
cgcgcgcact	cagttcagt	gccgtccacg	cacgcccgtc	cattagcgca	caaagcatct	120
tcacgcgcga	cggatcgnc	attgcagccg	ccaccgcggc	aatcgcttt	tccagcatcg	180
cgctgttatc	agagggttag	ctcgtctnta	acattcgctc	gcccanggtg	tggatgatctc	240
agcggggccac	ttatcatcat	ccctcagcag	attaaggtga	ttcccatggg	cactgta	297

<210> 5646

<211> 339

<212> DNA

<213> Enterobacter cloacae

<400> 5646

tacttaagta	ttctcatttc	atcggcaaac	aacggagcca	atgagatgaa	cataacctcc	60
caaccaaacc	cagcgagtaa	ggaatttgat	atccacgcca	agctcaaggc	agcaaattcg	120
cactggagtt	atttacgagc	tgcgcaacct	catcagaatg	attttgatta	cgaatttaac	180
accacattta	ttgacggttt	ggaattcgct	atctacgaac	gtgtaggtaa	ttattttggt	240
ctggttgatt	tcttcaagtc	atatgaagaa	gcatgtgatg	atgctaaaaa	aatcattgat	300
gaccatcctg	acattaagaa	aatgttctct	gctatttaa			339

<210> 5647

<211> 342

<212> DNA

<213> Enterobacter cloacae

<400> 5647

atcgctggag	tatttcacag	caaaaaagtc	gagttagatg	ggatttggtta	tgaaacctct	60
gatatttgta	tctcagagtt	atcccatctt	gaatttagtg	cgtttttaag	tacggatggg	120
gctgctacca	ttgctatagc	aaaaaacgga	actaatttta	ctggacttat	gcaactgaat	180
aacgactatt	ctttattgtt	ttatcatgat	ggtaaaataa	atatggaagg	tctaattaaa	240
gaaatggaat	taaaaggtta	tatgtatcag	ggagcaatgg	gcaatgatga	tggtgccgct	300
gagtttcccg	gtattctttt	aattgcacca	gagaagcttt	aa		342

<210> 5648

<211> 363

<212> DNA

<213> Enterobacter cloacae

<400> 5648

ttgcaccaga	gaagctttta	tatcaaccct	atcgggaaat	ctttccccgt	tggggagggg	60
ttcccccttt	ttttggagaa	acccatgact	ttaaatactt	caatgcttaa	caaagtatct	120
gcaaaaacaa	tctctgagaa	ttttgcaaaa	tcatatccag	atttactgga	aggtgcagtt	180
ataacaaaaa	ttgaaataag	tggctgtcaa	ggatcgcgct	gaaacgataa	aatcgatttg	240
tcttatgatg	gagatgatat	tacggatcaa	aaaagcgtat	ctaaaaacca	attacgttgg	300
attgacataa	aagcccttag	cttccaaaagt	acgattacca	gcagaatatc	cacccttttg	360
ctc						363

<210> 5649

<211> 663

<212> DNA

<213> Enterobacter cloacae

<400> 5649
 ttgaaattaa ctaaagatga tttcataaat ccttttagat ttaatatgtc tcactttatt 60
 ccttttacgc ctattagcgt tgaaggatga gaaaccagc actactatca ggaacaattg 120
 ataacagatc tggcagaaga agcaatgagg gtttatgaaa aaattagtaa aaataataat 180
 ttgcgctcaa gtactattga ccgactgaag caaatgcaaa ataagatcat tagcttcatg 240
 tttatacata aagaggcggc agtacttgca gaagctataa aacacataat gaataattta 300
 cctaaagggtg ccattttctga acctcgcgac gttgcggtgt tacagcagtg gttttatttc 360
 atgagtgatg cttcaatgtt aaagcgtatt atttcaggag agcaaaagggt tactgactgg 420
 ttggaatcta ttaccagatc atttaaatcaa agctcacaaa cagaaccgaa cgcgctacag 480
 aacacaggta ttgaagctat ttttagattca acaaattgtt ttcagggtga acctgtcgta 540
 gagaacgata taaaaaacag cacgttttca aacactgatt ctgtagctga acctgagaaa 600
 tcagtttcgc aacaggaaga caatgctgaa aatgggtttg atatcgagct caaaggctgg 660
 taa 663

<210> 5650

<211> 633

<212> DNA

<213> Enterobacter cloacae

<400> 5650
 gtaccccttt ttataaagag gtattctatg aaattagatc ttaaatacat gccgcgccat 60
 attaaagcgt tacagaatat agcaaaagtc attagcggct taggcgatgt aagagttgta 120
 atagacgaca ataccaaagg accgtatitt gatcctgtca ataaagtgtg tgttttacca 180
 aacggcgatt atagcgatga tgactttgtc agtctgattg aagggttttac ctgtcatgaa 240
 gctggctcatg gtcgctatac cgtcagtgag gtttacagtg acgcctttta tagtgttctc 300
 atgtcatctg aagggtttac acgcttcgat gacggaatga atgcagagtt tgagagcctc 360
 gctgagaaaac gtaaagctta tagcagggca aaacgtctta ccgggcttat aaatctgttc 420
 gatgatgtac agatggaaga gaagggttgg aacgattatc cggatgcaaa gcggcggttc 480
 gcagccactt acgcactgat ggttaaagcc ggaaggatga ctctgatat atcttctcgt 540
 ccggaaaatc ctgtcttatt tattgagtgg tatctgctta actcatcgcg agtacaatgt 600
 cttaactgcg gagtgcagga acgcactttt ttt 633

<210> 5651

<211> 237

<212> DNA

<213> Enterobacter cloacae

<400> 5651
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 ttgttatccg ctgtgtcctt ctctggcctg gcacagaaca ttagtgttac tgacacaact 120
 cttgatggcg ctgaagcgca gattgcggct aaggcaaaag aggcaaaaac ctctacaaa 180
 atcatttctg catatactgg taatcgtgtg cacatgaccg ctgttctggg tgaatag 237

<210> 5652

<211> 363

<212> DNA

<213> Enterobacter cloacae

<400> 5652
 agacaagagg catcgacaat gcgtctggca tcatatgcta ttgcgttact ttcatcact 60
 tcattgacgg gctgtaaac ggaaaaatga aaggcctttg ttggaaattg ggtcgaggaa 120
 acaaattcaa agatcccggc taaaatttct attgccgacg agaaatcggg gcaacgtcat 180
 ttctatgcgg taaaaataac cgatctcata tgggataaag aaacgggcgt ccattacaac 240
 acgaaaaaaa tcaatgccat gctggataaa gaaaatttcc tgtgggcgaa taatggggat 300
 aacttcatca tctttgacga tcatcttatg tataacggag atcgctacaa acgtgttgag 360
 tag 363

<210> 5653

<211> 195

<212> DNA

<213> Enterobacter cloacae

<400> 5653

gtcccgcaac	gagcgcaacc	cttatccctt	gttgccagcg	gtcaggccgg	gaactcagag	60
gagactgcca	gtgataaact	ggaggaacgt	ggggatgacg	tcaagtcac	atggccctta	120
cgagtagggc	tacacacgtg	ctacaatggc	gcatacaaag	agaagcgacc	tcgcgagagc	180
aagcggacct	cataa					195

<210> 5654

<211> 609

<212> DNA

<213> Enterobacter cloacae

<400> 5654

cccaaatgt	ctaaaaataa	agctcgcagt	aaagcccttc	atcaaaccctt	tagtgaaatt	60
attccagaga	tggataaggc	gctaaacaaa	cagctcttag	aagttctgat	gaaatataca	120
gaacgtgata	atgaactgat	tggtattttg	aatgaggacg	gccccaatat	cattgaactt	180
aagtctctta	agcctgtgtc	tttgittggc	gaaaagcttt	ctgcttattc	aagctattat	240
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gttgaggagt	ttgaaaaata	cggattaaat	tcatttcttg	acgtggataa	tctggattac	420
tcacttgaaa	aagccagtga	actcaaaaat	gagcagttaa	taaattgggt	ttcggacatc	480
at ttgcaaac	gtgaaaaatt	aactttacgt	aagcgttttg	atgtcgcagt	aaaggcccac	540
tacgaaaatg	tagaaaacat	gtatgattct	tcaccacaga	ggggtcgaag	gacccgcgct	600
aagcgggtga						609

<210> 5655

<211> 220

<212> DNA

<213> Enterobacter cloacae

<400> 5655

actttggggc	tgagagaagc	tacactgaaa	gaacagtttt	tggtttctgc	ggtctcgta	60
tacccaatta	cctggtttta	gcagttcccc	aaatggactt	atacctccga	tcaaaccaac	120
ctccccagc	tggttttttt	tcogtttcca	gaagccagaa	gaattaccaa	tggttacgaa	180
cacggattcc	ctataaagat	ttttttactc	cggaaacagac			220

<210> 5656

<211> 855

<212> DNA

<213> Enterobacter cloacae

<400> 5656

tttcagatca	ccgccatcaa	cagtgcgacg	tcactgacgg	ttacgcctgc	cgcgtctcag	60
gcgttgagcg	gccagaagta	cggcattctt	gttactgata	gtctctcagt	cgacggcctg	120
gcgcagagca	tgtctcaact	catcaacgag	tacgacgaga	acatcggcgc	ctgggagacg	180
ttcgccacca	cctcagcaaa	ccagaacatc	accgtcacca	tcaacggcgc	tcgtgttaact	240
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ggcgggaccg	gagcaacgaa	tgccgctgac	gctcgcacaa	acctcggttt	aggaagtagc	360
gcgactaagg	acgtcggaac	ggactccggt	aatgtcatgc	aagtgggggc	ttttgggggt	420
ggtacatacc	aggctccaag	gccaaatgat	gcaaaactcat	cgtttatcag	tgatgctgac	480
ggtaacacca	gttgggctcc	tgccaatggc	tgtggctacc	aaagctctta	taacactcag	540
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tcggacatta	actttaagaa	agtgaaccgg	gatctggatc	taaacgaatc	gctgtcaaac	720
atcgcggcaa	tggattttta	gacctcttac	taccttgctg	atgaagataa	agtcattcgc	780
cgcggcgtta	ttgctcagga	actggaaaag	atcgatcccc	aggtcttcac	aacgcggtcg	840
aagaaagtac	tatgt					855

<210> 5657

<211> 192

<212> DNA

<213> Enterobacter cloacae

<400> 5657

gaaggtgcgc tggatcacaa caatcacact attagtttaa tttacaacaa aatgttgata	60
ttattcattc aggtgaatga caggtatgag attcatcctt atcagcgcgc tggtgataaa	120
cttactttta tcaaaaataa cctattgaat atatttatat tttacatga agcaattaga	180
cctgaaccat ga	192

<210> 5658

<211> 216

<212> DNA

<213> Enterobacter cloacae

<400> 5658

caaacaggaa gcgatcgga ctgctatctc actgcttcac cagctacaca taactgtgac	60
tcaatggaac aggttgctga taagttcttt gacaggctgg tgagtggta gattaagatt	120
aagcgtggtc tctctgtgaa tggtcactct tcaaaagaga aatataattt gatagctggg	180
ggcatgggta atgtgaaaag cctgtgcagg gggtag	216

<210> 5659

<211> 297

<212> DNA

<213> Enterobacter cloacae

<400> 5659

ccaatctacc ggctgggaga caactacaat caaagggcgg tcggcttccc gcagcagacg	60
atggggatcg ctgcaccagg gcagcgtatg ggcgagcaga caggcatcaa tggatttttc	120
cgcaaacggc aaatgcacgc gatccgcttt cacctgaacc ggggagccat taagcgatac	180
gctaacctga tgcgagatag cgcagcttcc ggtattgatt tctgcgctca gattgccaat	240
cttaagcagg tgaaaaccat tcattttcgc gagccagggt ttaagctgaa gttctaa	297

<210> 5660

<211> 237

<212> DNA

<213> Enterobacter cloacae

<400> 5660

cacgttctct tatcaggtga tegtataact ccggtgatcg aaaccgtggc agagccggat	60
tctttccgga tccggttagt cttcccaaca ttaacgctgt ttattctctg tgacctttca	120
caaggtgtag catcattgag cgcgcacga agcgcggaac gtatcgctaa tggttcaagt	180
gatgtgttta gagattccgg caactcttcc agcttcaagg gatggcaaaa tttctaa	237

<210> 5661

<211> 210

<212> DNA

<213> Enterobacter cloacae

<400> 5661

aaaaaggctg ttaacttagg attgctaagt atacaacaat gtcagatact tagacaatct	60
aagcatccga ggccgatgaa gatgattcag tgtcagaaaa aaaccgata ccagaacgac	120
ttaaagaagc gagatgcagg gcgggactat cacagcgtc tctggggcta cttattggct	180
ttgatccgc atcggtagt agtcgtatga	210

<210> 5662

<211> 579

<212> DNA

<213> Enterobacter cloacae

<400> 5662

cagccttttt ttagtgatat gaatagtaga gtaaccaacc ctgagtcgta catattttct	60
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gggcgatttt cacttccgaa aaattattta aaggcaaaag cttttgctta taaccaaatt 180
caaggtctgg ttagaaaagg attgttaaatt aaagtaagaa aattaggtgc gtatcaatat 240
ttatactcag ccacatctga attcaatgtc gcaaaggaaa acgtagagtt aattgaggta 300
tccccaaaaa gccctgtca acttatttca agtgctacca gttatgaaca tagcaatgta 360
aacattcaaa taagaactct tattgaaaaa tacagcagcg agttggaaaa agtatcagga 420
gtaaaggaga tttatgaaga attgataatt gccgtgccga gcagggaaaa tgaattcagg 480
aaactttctc tcgaacaaga gaaaaagcaa attaagataa atgaacaaat attcttcacc 540
acgaagctgc aaggatgccg gataaattct atggttcag 579

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<210> 5663

<211> 144

<212> PRT

<213> Enterobacter cloacae

<400> 5663

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Cys Cys Arg Arg Leu Ser Gly Ser Ala Ser Pro Arg Trp Ser Leu Cys
1          5          10          15
Leu Cys Trp Cys Ser Gly Cys Cys Arg Ala Cys Ser Pro Ser Phe Cys
          20          25          30
Leu Gly Ser Pro Pro Gly Ala Ser Cys Ser Pro Ala Pro Ser Gly Cys
          35          40          45
Ala Phe Ser Cys Arg Phe Cys Phe Ser Ala Pro Ala Ala Ser Cys Phe
          50          55          60
Ile Leu Val Val Ala Leu Leu Phe Cys Leu Arg Phe Val Val Phe Pro
65          70          75          80
Val Leu Leu Phe Gly Ser Val Cys Leu Ala Trp Phe Leu Val Phe Ala
          85          90          95
Phe Leu Val Ala Leu Trp Met Asp Gln Gly Val Val Ser Trp Leu Arg
          100          105          110
His Val Leu Leu Ala Pro Gly Ser His Lys Asn Pro Val Thr Leu Val
          115          120          125
Ile Thr Gly Leu Ile Leu Arg Ala Ile Val Trp Ser Val Met Leu Leu
          130          135          140

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<210> 5664

<211> 77

<212> PRT

<213> Enterobacter cloacae

<400> 5664

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Ser Arg Thr Arg Gln Glu Arg Lys Ser Lys Thr Asp Arg Lys Lys Arg
1          5          10          15
Asn Arg Lys Glu Gln Gly Ser Lys Thr Pro Gln Glu Glu Asn Pro Asn
          20          25          30
Lys Thr Lys Ala Asn Arg Arg Asp Ser Ser Gln Asn Thr Ser Arg Asp
          35          40          45
Thr Lys Thr Thr Glu Ala Thr Pro Ile Gln Lys Asp Gly Asp Asn Ile
          50          55          60
Ser Thr Lys Lys Thr Asn Arg Asp Lys Asn Arg Thr
65          70          75

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<210> 5665

<211> 163

<212> PRT

<213> Enterobacter cloacae

<400> 5665

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Asn Pro Asn Gln Ser Glu Ala Leu Gly Gly Thr Ile Ala Arg Gly Met
1          5          10          15
Val Asn Thr Gln Thr Gly Gln Glu Glu Lys Lys Val Gly Thr Arg Arg

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      20      25      30
Ile Glu Arg Lys Lys Pro Pro Val Val Thr Gly Ala Glu Glu Lys Ala
      35      40      45
Lys Gly Gln Asn Leu Ala Pro Lys Ala Glu Lys Ser Glu Ser Gly Ser
      50      55      60
Pro Lys Glu Ser Arg Lys Ala Glu Lys Thr Glu Gln Ser Ile Gly Glu
      65      70      75      80
Glu Ala Val Lys Thr Arg Gly Lys Ile Gln Arg Gln Gln Ile Gln Asp
      85      90      95
Gly Gln Lys Ala Ala Ser Gln Val Asn Ala Gln Gln Ala Asn Glu Ile
      100      105      110
Gly Leu Gly Lys Pro Glu Asp Phe Thr Gln Ile His Gln Ala Ala Arg
      115      120      125
Ile Gly Lys Pro His Ile Thr Ser Pro Thr Phe Asn Val Gln Ala Met
      130      135      140
Met Leu Ile Ala Pro Gly Leu His Leu Ala Thr Gly Arg Ile Arg Ala
      145      150      155      160
Tyr Val Ser

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<210> 5666

<211> 89

<212> PRT

<213> Enterobacter cloacae

<400> 5666

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Ser Ser Gly Cys Arg Gln Glu Asn Arg Leu Ser Val Gly Asn Ser Ile
1      5      10      15
Gly Gln Asp Arg Arg Phe Leu Phe Lys Tyr Met Pro Glu Leu Glu Ser
      20      25      30
Tyr Phe His Tyr Arg Tyr Leu Asp Val Ser Thr Leu Lys Glu Leu Ala
      35      40      45
Arg Arg Trp Lys Pro Glu Ile Phe Asp Gly Phe Thr Lys Gln Gly Thr
      50      55      60
His Gln Ala Met Asp Asp Ile Arg Glu Ser Val Ala Glu Leu Ala Tyr
      65      70      75      80
Tyr Arg Glu Asn Phe Ile Lys Leu
      85

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<210> 5667

<211> 131

<212> PRT

<213> Enterobacter cloacae

<400> 5667

```

Pro Ala Thr Ala Gly Tyr Ala Arg Arg Val Glu Asn Asn Met Ser Ala
1      5      10      15
Asp Glu Asn Asn Leu Ile Trp Ile Asp Leu Glu Met Thr Gly Leu Asp
      20      25      30
Pro Glu Arg Asp Arg Ile Ile Glu Ile Ala Thr Leu Val Thr Asp Ala
      35      40      45
Asn Leu Asn Ile Leu Ala Glu Gly Pro Thr Ile Ala Val His Gln Ser
      50      55      60
Asp Asp Gln Leu Ala Leu Met Asp Glu Trp Asn Val Arg Thr His Thr
      65      70      75      80
Gly Ser Gly Leu Val Glu Arg Val Lys Ala Ser Thr Leu Gly Asp Arg
      85      90      95
Glu Ala Glu Leu Ala Thr Leu Glu Phe Leu Lys Gln Trp Val Pro Ala
      100      105      110
Gly Lys Ser Pro Ile Cys Gly Gln Gln His Trp Ser Gly Ser Ser Phe
      115      120      125

```

Pro Val
130

<210> 5668

<211> 225

<212> PRT

<213> Enterobacter cloacae

<400> 5668

```

Pro Leu Pro Leu Ser Trp Gln Ser Val Val Lys Thr Ser Ala Thr Phe
1      5      10      15
Phe Thr Asn Ile Thr Leu Gly Lys Leu Ser Leu Leu Phe Leu Ala Leu
20      25      30
Gly Val Ala Tyr Ala Ala Ile Arg Arg Thr Leu Leu Ile Val Tyr Pro
35      40      45
Pro Ile Leu Ser Asp Gly Leu Phe Asn Phe Val Val Met Gln Thr Leu
50      55      60
Phe Tyr Ile Pro Phe Phe Leu Ile Gly Ala Leu Ala Phe Ile His Pro
65      70      75      80
Arg Leu Lys Ala Leu Phe Thr Thr Pro Ser Pro Trp Cys Ala Val Gly
85      90      95
Ala Ala Leu Ala Phe Ala Ala Tyr Leu Leu Asn Gln Arg Tyr Gly Ser
100     105     110
Gly Asp Ala Trp Met Tyr Glu Thr Glu Ser Val Ile Thr Met Leu Met
115     120     125
Gly Leu Trp Met Val Asn Val Val Phe Ala Leu Gly His Arg Leu Leu
130     135     140
Asn Phe Lys Ser Ser Arg Val Thr Tyr Phe Val Asn Ala Ser Leu Phe
145     150     155     160
Ile Tyr Leu Val His His Pro Leu Thr Leu Phe Phe Gly Ala Tyr Ile
165     170     175
Thr Pro His Ile Ala Ser Asn Ala Leu Gly Phe Phe Thr Gly Leu Val
180     185     190
Phe Val Val Gly Ile Ala Ile Val Leu Tyr Glu Ile His Leu Arg Ile
195     200     205
Pro Leu Leu Arg Phe Leu Phe Ser Gly Lys Pro Gln Val Lys Ala Gly
210     215     220

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225

<210> 5669

<211> 215

<212> PRT

<213> Enterobacter cloacae

<400> 5669

```

Arg Arg Phe Val Pro Val Gly Leu Pro Val Thr Asp Val Leu Phe Ala
1      5      10      15
Ala Val Ile Leu Ile Leu Pro Val Gly Tyr Ile Gly Glu Lys Gly Gly
20      25      30
Leu Gln Arg Val Phe Met Arg Pro Gln Ile Asp Val Ile His Gly Asp
35      40      45
Ile Thr Thr Val Arg Val Asp Val Ile Val Asn Ala Ala Asn Ser Ser
50      55      60
Leu Met Gly Gly Gly Gly Val Asp Gly Ala Ile His Arg Ala Ala Gly
65      70      75      80
Pro Gln Leu Leu Glu Ala Cys Lys Thr Val Arg Gln Gln Gln Gly Glu
85      90      95
Cys Pro Pro Gly His Ala Val Ile Thr Leu Ala Gly Asp Leu Pro Ala
100     105     110
Lys Ala Val Ile His Thr Val Gly Pro Val Trp His Gly Gly Asp Arg

```

```

      115              120              125
His Glu Ala Glu Ile Leu Glu Gln Ala Tyr Arg Asn Cys Met Arg Leu
      130              135              140
Ala Ala Asp Asn Gly Tyr Lys Thr Met Ala Phe Pro Ala Ile Ser Thr
145      150              155              160
Gly Val Phe Gly Tyr Pro Lys Glu Ala Ala Ala Thr Ile Ala Val Asn
      165              170              175
Thr Val Tyr Gln Tyr Leu Ser Leu Lys Pro Met Pro Glu Lys Val Ile
      180              185              190
Phe Val Cys Phe Asp Glu His Thr Ala Asp Leu Tyr Gln Arg Ile Leu
      195              200              205
Thr Ala Arg Ser Gln Ala Phe
      210              215

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<210> 5670

<211> 308

<212> PRT

<213> Enterobacter cloacae

<400> 5670

```

Ser Pro Cys Ile Ile Ala Thr Leu Phe Ala Pro Glu Pro Ser Asp Val
1      5      10      15
Ile Pro Phe Pro Arg Ser Leu Glu Gln Ala Val Ala Ala Pro Phe Arg
      20      25      30
Asp Phe Phe Gly Arg Asn Asn Ala Trp Leu Ile Leu Leu Leu Ile Val
      35      40      45
Leu Tyr Lys Leu Gly Asp Ala Phe Ala Met Ser Leu Thr Thr Thr Phe
      50      55      60
Leu Ile Arg Gly Val Gly Phe Asp Ala Gly Glu Val Gly Val Val Asn
65      70      75      80
Lys Thr Leu Gly Leu Phe Ala Thr Ile Val Gly Ala Leu Tyr Gly Gly
      85      90      95
Val Leu Met Gln Arg Leu Ser Leu Phe Arg Ala Leu Leu Ile Phe Gly
      100      105      110
Ile Leu Gln Gly Ala Ser Asn Ala Gly Tyr Trp Leu Leu Ser Ile Thr
      115      120      125
Asp Lys His Met Ile Ser Met Ala Thr Ala Val Phe Phe Glu Asn Leu
      130      135      140
Cys Gly Gly Met Gly Thr Ala Ala Phe Val Ala Leu Leu Met Thr Leu
145      150      155      160
Cys Asn Lys Ser Phe Ser Ala Thr Gln Phe Ala Leu Leu Ser Ala Leu
      165      170      175
Ser Ala Val Gly Arg Val Tyr Val Gly Pro Val Ala Gly Trp Phe Val
      180      185      190
Glu Ala His Gly Trp Pro Thr Phe Tyr Leu Phe Ser Val Val Ala Ala
      195      200      205
Val Pro Gly Ile Leu Leu Leu Val Cys Arg Gln Thr Leu Glu Tyr
      210      215      220
Thr Gln Arg Thr Glu His Phe Met Pro Arg Thr Glu Tyr Gln Ala Ala
225      230      235      240
Tyr Arg Phe Ala Leu Arg Leu Leu Met Ala Gly Cys Leu Ala Leu Val
      245      250      255
Val Trp Leu Ala Val Leu Ile Ile Asn Ala Thr Thr Thr Leu Ser Leu
      260      265      270
Pro Phe Glu Thr Gln Leu Leu Asp Ala Gly Val Phe Leu Ala Ile Val
      275      280      285
Gly Ile Leu Thr Gly Gly Met Leu Asp Phe Met Ser Leu Arg Lys Thr
      290      295      300
Gln Met Thr
305

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<210> 5671
 <211> 335
 <212> PRT
 <213> Enterobacter cloacae

<220>
 <221> UNSURE
 <222> (333)

<400> 5671
 Met Ala Asn Tyr Thr Val Asp Glu Phe Ile Ile Gln Leu Gly Phe Asn
 1 5 10 15
 Glu Thr Val Ser Lys Asn Leu Gln Lys Leu Glu Ser Arg Thr Leu Lys
 20 25 30
 Val Ala Glu Arg Ile Glu Lys Asn Leu Asn Arg Ala Phe Thr Pro Lys
 35 40 45
 Gly Asp Phe Gly Arg Val Ile Ser Ser Ala Asn Asn Ala Ser Lys Gln
 50 55 60
 Ile Asn Arg Ala Phe Ser Lys Ser Met Asn Phe Asp Glu Ala Gly Lys
 65 70 75 80
 Ser Ser Val Lys Ser Val Glu Asn Ala Ala Lys Ala Ser Ala Lys Arg
 85 90 95
 Ile Lys Asp Met Tyr Gln Asp Ala Tyr Gly Ala Lys Gly Lys Gly Arg
 100 105 110
 Ser Asn Pro Pro Ala Ala Gly Lys Pro Gln Gly Arg Gly Ser Asp Leu
 115 120 125
 Thr Ala Ala Asn Ser Ile Arg Ser Leu Ala Asn Thr Gln Phe Tyr Ser
 130 135 140
 Asn Leu Thr Arg Arg Leu Glu Gly Met Gly Ser Thr Gly Gln Ala Arg
 145 150 155 160
 Ala Met Lys Leu Arg Gln Gln Val His Gly Leu Arg Asp Asp Ala Leu
 165 170 175
 Ala Asn Pro Ser Ala Ser Leu Asn Gln Phe Arg Leu Ala Leu Arg Ala
 180 185 190
 Ala Thr Asp Ser Ala Ser Lys Trp Ala Ser Gln Asn Arg Lys Gln Val
 195 200 205
 Ser Asn Ala Glu Gly Leu Ser Ser Phe Gly Arg Leu Val Ser Val
 210 215 220
 Ser Ala Ala Leu Tyr Gly Thr Phe Glu Ala Val Arg Lys Val Val Glu
 225 230 235 240
 Thr Gly Val Ala Arg Glu Gly Val Asn Leu Ser Ala Glu Ala Val Phe
 245 250 255
 Lys Gly Gln Ser Lys Asn Ala Lys Thr Phe Ala Ala Gln Phe Ser Asp
 260 265 270
 Gln Ile Gly Gln Gly Val Thr Glu Thr Leu Lys Gln Tyr Thr Gly Phe
 275 280 285
 Ala Ala Gly Ala Gln Asn Ser Leu Gly Tyr Gln Gly Thr Gln Asp Phe
 290 295 300
 Tyr Lys Asn Ala Ala Val Phe Gly Arg Ile Arg Gly Leu Asp Ala Glu
 305 310 315 320
 Gln Arg Thr Gly Ile Met Ile Phe Thr Ser Arg Ala Xaa Ser
 325 330 335

<210> 5672
 <211> 390
 <212> PRT
 <213> Enterobacter cloacae

<400> 5672
 Asn Lys Leu Asn Ser Gly Ile Arg Arg Val Leu Thr Gly Val Phe Lys
 1 5 10 15

Val Ile Ile Ile Arg Tyr Leu Val Arg Glu Thr Leu Lys Ser Gln Leu
 20 25 30
 Ala Ile Leu Phe Ile Leu Leu Leu Ile Phe Phe Cys Gln Lys Leu Val
 35 40 45
 Arg Ile Leu Gly Ala Ala Val Asp Gly Glu Ile Pro Thr Asn Leu Val
 50 55 60
 Leu Ser Leu Leu Gly Leu Gly Val Pro Glu Met Ala Gln Leu Ile Leu
 65 70 75 80
 Pro Leu Ser Leu Phe Leu Gly Leu Leu Met Thr Leu Gly Lys Leu Tyr
 85 90 95
 Thr Glu Ser Glu Ile Thr Val Met His Ala Cys Gly Leu Ser Lys Ala
 100 105 110
 Val Leu Val Lys Ala Ala Met Val Leu Ala Leu Phe Thr Gly Ile Val
 115 120 125
 Ala Ala Val Asn Val Met Trp Ala Gly Pro Thr Ser Ser Arg His Gln
 130 135 140
 Asp Glu Val Leu Ala Glu Ala Lys Ala Asn Pro Gly Leu Ala Ala Leu
 145 150 155 160
 Ala Gln Gly Gln Phe Gln Gln Ala Thr Asp Gly Asn Ser Val Leu Phe
 165 170 175
 Ile Glu Ser Val Asp Gly Asn Arg Phe Asn Asp Val Phe Leu Ala Gln
 180 185 190
 Leu Arg Pro Lys Gly Asn Ala Arg Pro Ser Val Val Val Ala Asp Ser
 195 200 205
 Gly Gln Leu Ser Gln Arg Lys Asp Gly Ser Gln Val Val Thr Leu Asn
 210 215 220
 Lys Gly Thr Arg Phe Glu Gly Thr Ala Met Leu Arg Asp Phe Arg Ile
 225 230 235 240
 Thr Asp Phe Gln Asn Tyr Gln Ala Ile Ile Val His Gln Ala Val Ala
 245 250 255
 Leu Asp Pro Thr Asp Thr Glu Gln Met Asp Met Arg Thr Leu Met Asn
 260 265 270
 Thr Asp Thr Asp Arg Ala Arg Ala Glu Leu His Trp Arg Ile Thr Leu
 275 280 285
 Val Phe Thr Val Phe Met Met Ala Leu Met Val Val Pro Leu Ser Val
 290 295 300
 Val Asn Pro Arg Gln Gly Arg Val Leu Ser Met Leu Pro Ala Met Leu
 305 310 315 320
 Leu Tyr Leu Val Phe Phe Leu Leu Gln Thr Ser Ile Lys Ser Asn Gly
 325 330 335
 Gly Lys Gly Lys Ile Asp Pro Met Ile Trp Thr Trp Val Val Asn Gly
 340 345 350
 Leu Tyr Leu Leu Leu Ala Val Gly Leu Asn Leu Trp Asp Thr Val Pro
 355 360 365
 Val Arg Arg Leu Arg Ala Arg Phe Thr Arg Lys Gly Ser Ser Pro Arg
 370 375 380
 Gly Gly Arg Thr Ala Ser
 385 390

<210> 5673

<211> 252

<212> PRT

<213> Enterobacter cloacae

<220>

<221> UNSURE

<222> (224)

<400> 5673

Arg Glu Arg Thr Asn Gly Asp Thr Met Thr Leu Pro Ser Phe Ile Asn
 1 5 10 15

Ala Ser Pro Ala Leu Pro Ala Thr Gly Gln Ser Ala Gly Leu Asp Tyr
 20 25 30
 Gly Arg Ala Leu Ser Leu Arg Glu Met Ala Arg His Tyr Thr Glu Leu
 35 40 45
 Pro Lys Tyr Leu Leu Ala Pro Glu Val Ala Gly Leu Leu His Phe Val
 50 55 60
 Gln Asp Trp Gly Gln His Ala Phe Phe Asn Thr Leu Trp Asn Thr Gly
 65 70 75 80
 Ala Arg Leu Asn Glu Gly Leu Ala Leu Arg Arg Arg Asp Phe His Leu
 85 90 95
 Asn Glu Ser Ile Pro His Val Val Leu Arg Thr Ala Lys Gln Arg Arg
 100 105 110
 Ala Gly Gly Gly Arg Pro Arg Lys Gly Lys Ser Ala Asn Arg Val Val
 115 120 125
 Pro Leu Ser Asp Pro Ala Tyr Val Asp Glu Met Arg Arg Leu Phe Ala
 130 135 140
 Ser Thr Lys Glu Gln Phe Glu Asp Asp Pro Ile Thr Gly Glu Arg Arg
 145 150 155 160
 Ala Gln Pro Val Trp Asn Val Ser Asp Arg Thr Val Arg Asn Trp Leu
 165 170 175
 Val Arg Ala Thr Asp Ala Ala Asp Arg Gly Val Arg Leu Ser Ile
 180 185 190
 Asp Val Ser Pro His Thr Phe Arg His Ser Phe Ala Met His Leu Leu
 195 200 205
 Tyr Gly His Val His Pro Lys Val Leu Gln Gly Leu Leu Gly His Xaa
 210 215 220
 Lys Phe Glu Ser Thr Glu Val Tyr Thr Lys Ile Phe Ala Leu Asp Val
 225 230 235 240
 Ala Ala Ser Gln Gln Leu Arg Phe Thr Leu Asp Thr
 245 250

<210> 5674

<211> 317

<212> PRT

<213> Enterobacter cloacae

<220>

<221> UNSURE

<222> (313)

<400> 5674

Asn Ala Thr Gly Lys His Leu Pro Glu Gly Gly Val Cys Ile Leu Pro
 1 5 10 15
 Glu Leu Lys Met Ser Asn Ala Ala Met Lys Leu Asn Glu Thr Ser Ser
 20 25 30
 Asp Ala Tyr Glu Lys Leu Glu Ala Leu Leu Ser Pro Asp Val Ile Lys
 35 40 45
 Leu Lys His Tyr Val Asp Lys Gly Glu Tyr Leu Leu Val Leu Ala Lys
 50 55 60
 Asp Leu Phe Gly Ile Pro Glu Met Asp Pro Lys Met Ala Val Pro Val
 65 70 75 80
 Phe Lys Thr Lys Thr Ser Tyr Arg Ala Pro Leu Asn Lys Asp Tyr Ile
 85 90 95
 Pro Asn Pro Arg Ile Leu Glu Gln Val Lys Leu Leu Ile Ser Pro
 100 105 110
 Asp Ile Asp Leu Ser Val Cys Leu Lys Gly Glu Ser Gly Ser Gly Lys
 115 120 125
 Thr Glu Met Val Met Tyr Ile Ser His Met Met Asn Trp Pro Leu Thr
 130 135 140
 Ile Lys Gln Ile Asn Ser Asn Ile Arg Val Asp Glu Leu Glu Gly Glu
 145 150 155 160

Arg Ser Leu Asn Gly Gly Asn Thr Gly Phe Val His Ser Asp Leu Val
 165 170 175
 Thr Gly Phe Arg Asn Gly His Leu Ile Leu Leu Asp Glu Val Asp Lys
 180 185 190
 Ile Asp Pro Asp Thr Ala Ala Lys Leu His Met Pro Ile Glu Arg Lys
 195 200 205
 Pro Trp Ser Leu Ser Ala Asn Gly Gly Glu Val Ile Thr Ala Asn Gly
 210 215 220
 Tyr Thr Arg Phe Ile Gly Thr Ala Asn Thr Asn Met Ser Gly Gly Ala
 225 230 235 240
 Arg Arg Phe Val Ser Ser Gln Arg Gln Asp Ala Ala Phe Ile Lys Arg
 245 250 255
 Phe Leu Ile Val Glu Met Glu Lys Pro Asp Lys Val Ala Leu Thr Asn
 260 265 270
 Val Leu Thr Lys Arg Tyr Ser Ser Leu Pro Phe Gln Val Ile Glu Lys
 275 280 285
 Phe Val Arg Val Ala Ile Ala Val Asn Asp Ser Gly Thr Glu Asp Ser
 290 295 300
 Val Met Asp Ile Arg Gln Leu Val Xaa Trp Val Gly Thr
 305 310 315

<210> 5675

<211> 173

<212> PRT

<213> Enterobacter cloacae

<400> 5675

Val Leu Glu Val Lys Thr Ala Gln Met Gly His Glu Ser Thr Arg Phe
 1 5 10 15
 Thr Arg Leu Val Glu Asn Leu Asn Tyr Ala Val Glu Asn Leu Val Pro
 20 25 30
 Thr Phe Gly Ser His Arg Ile Thr Gln Gln Gln Ser Ala Ala Leu Gly
 35 40 45
 Arg Thr Ala Thr Gln Pro Ala Asn Gln Lys Ala Ile Ala Asn Leu Val
 50 55 60
 Tyr Gly Gly Glu Trp Gly Lys Glu His Leu Gly Asn Gln Val Ala Gly
 65 70 75 80
 Asp Gly Trp Lys Tyr Arg Gly Arg Gly Leu Lys Gln Ile Thr Gly Leu
 85 90 95
 Ser Asn Tyr Arg Ser Cys Gly Gln Ala Leu Lys Leu Asp Leu Val Thr
 100 105 110
 His Pro Glu Leu Leu Glu Lys Asp Glu Tyr Ala Ala Arg Ser Ala Ala
 115 120 125
 Trp Phe Tyr Ala Ser Arg Gly Cys Leu Leu His Ser Gly Asp Val Glu
 130 135 140
 Arg Val Thr Leu Leu Ile Asn Gly Gly Arg Asn Gly Leu Asp Lys Arg
 145 150 155 160
 Arg Ala Leu Phe Asn Leu Ala Lys Ser Val Leu Val
 165 170

<210> 5676

<211> 115

<212> PRT

<213> Enterobacter cloacae

<400> 5676

Trp Arg Asn Cys Val Arg Ile Glu Thr Ser Leu Phe Thr Thr Pro Glu
 1 5 10 15
 Cys Met Lys Ala Ile Thr Leu Tyr Asp Val Ala Arg Val Ala Gly Val
 20 25 30
 Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys

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<210> 5677
<211> 114
<212> PRT
<213> Enterobacter cloacae
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```
<210> 5678
<211> 370
<212> PRT
<213> Enterobacter cloacae
```

<400>	5678															
Ser	Leu	His	Ile	Cys	Val	Lys	Val	Gly	Phe	Gln	Cys	Lys	Lys	Val	Ile	
1				5					10					15		
Thr	Met	Asn	Leu	Leu	Glu	Lys	Ile	Ala	Leu	Val	Gly	Gln	Arg	Met	Lys	
			20					25					30			
Ser	Glu	Gln	Ile	Ser	Leu	Lys	Glu	Ser	Leu	Met	Ala	Ser	Ser	Arg	Val	
		35					40					45				
Ser	Val	Ser	Asp	Asp	Ser	Val	Asp	Gly	Val	Asp	Arg	Leu	Ile	Tyr	Asn	
	50					55					60					
His	Cys	Leu	Asn	Lys	Lys	Asn	Leu	Ser	Asp	Phe	Phe	Gly	Lys	Ser	Arg	
65					70					75					80	
Val	Thr	Phe	Asn	Lys	Ile	Leu	Ser	Asp	Leu	Glu	Glu	Lys	Glu	Leu	Val	
			85						90					95		
Gly	Ala	Pro	Ile	Tyr	Gln	Asn	Lys	Asn	His	Leu	Tyr	Thr	Arg	Trp	Asp	
			100					105					110			
Val	Gln	Lys	Ile	Met	Asp	Ala	Leu	Gly	Tyr	Pro	Lys	Tyr	Arg	Asp	His	
		115					120					125				

Tyr Phe Ser Arg Ala Ile Val Thr Gln Asn His Lys Gly Gly Thr Gly
 130 135 140
 Lys Ser Thr Thr Ser Val Ala Leu Ala Val Ala Ala Leu Asp Leu
 145 150 155 160
 Gln Leu Asn Ala Arg Val Leu Met Ile Glu Trp Asp Pro Gln Gly Ser
 165 170 175
 Ile Gly Ser Ser Met Ile Gln Ser Val Ser Glu Asp Asp Val Phe Leu
 180 185 190
 Thr Ala Ile Asp Ala Ile Leu Gly Ile Tyr Glu Glu Asn Ser Glu Tyr
 195 200 205
 Lys Lys Tyr Leu Asp Ser Gly Phe Ser Glu Glu Glu Ile Ile Thr Asn
 210 215 220
 Met Pro Phe Ser Thr His Leu Pro Asn Leu Asp Val Ile Thr Ala Phe
 225 230 235 240
 Pro Thr Asp Ala Arg Phe Lys Asp Lys Tyr Trp Gln Cys Ser Arg Glu
 245 250 255
 Glu Arg Thr Ser Leu Leu Leu Arg Phe Lys Glu Val Ile Leu Pro Val
 260 265 270
 Leu Lys Gln Asn Tyr Asp Leu Ile Ile Asp Thr Pro Pro Glu Asp
 275 280 285
 Ser Pro Leu Ile Trp Ala Ala Asp Glu Ala Ala Asp Gly Ile Leu Val
 290 295 300
 Ala Val Ser Pro Arg Glu Tyr Asp Tyr Ala Ser Thr Thr Asp Phe Met
 305 310 315 320
 Leu Thr Ile Ser Glu Arg Cys Lys Gln Ser Pro Ser Lys Gly Asp Asn
 325 330 335
 Leu Lys Trp Phe Xaa Val Leu Ala Val Asn Val Asn Asp Lys Ser Pro
 340 345 350
 Tyr Glu Arg Ile Val Leu Asp Lys Leu Ile Lys Thr Val Gln Gly Pro
 355 360 365
 Phe
 370

<210> 5679

<211> 352

<212> PRT

<213> Enterobacter cloacae

<220>

<221> UNSURE

<222> (344)

<400> 5679

Arg Leu Leu Asp Pro Gly Asn Phe Ala Thr Asn Ile Gln Ala Gly Ala
 1 5 10 15
 Ser Phe Gly Tyr Lys Leu Leu Trp Val Val Trp Ala Asn Leu Met
 20 25 30
 Ala Met Leu Ile Gln Met Leu Ser Ala Lys Leu Gly Ile Ala Thr Gly
 35 40 45
 Lys Asn Leu Ala Glu Gln Ile Arg Asp His Tyr Pro Arg Pro Ala Val
 50 55 60
 Trp Phe Tyr Trp Val Gln Ala Glu Ile Ile Ala Met Ala Thr Asp Leu
 65 70 75 80
 Ala Glu Phe Ile Gly Ala Ala Ile Gly Phe Lys Leu Ile Leu Gly Val
 85 90 95
 Ser Leu Leu Gln Gly Ala Val Leu Thr Gly Ile Ala Thr Phe Leu Ile
 100 105 110
 Leu Met Leu Gln Arg Arg Gly Gln Lys Pro Leu Glu Lys Val Ile Gly
 115 120 125
 Gly Leu Leu Leu Phe Val Ala Ala Tyr Ile Val Glu Leu Ile Phe
 130 135 140

Ser Gln Pro Asn Leu Ala Gln Leu Thr Lys Gly Met Val Ile Pro Ser
 145 150 155 160
 Leu Pro Thr Ser Glu Ala Val Phe Leu Ala Ala Gly Val Leu Gly Ala
 165 170 175
 Thr Ile Met Pro His Val Ile Tyr Leu His Ser Ser Leu Thr Gln Asn
 180 185 190
 Leu His Gly Gly Thr Ser Lys Glu Arg Tyr Ser Ala Ser Lys Trp Asp
 195 200 205
 Val Ala Ile Ala Met Thr Ile Ala Gly Phe Val Asn Leu Ala Met Met
 210 215 220
 Ala Thr Ala Ala Ala Ala Phe His Phe Asn Gly His Thr Gly Val Ala
 225 230 235 240
 Asp Leu Asp Gln Ala Tyr Leu Thr Leu Glu Pro Leu Leu Ser His Ala
 245 250 255
 Ala Ala Thr Ile Phe Gly Leu Ser Leu Val Ala Ala Gly Leu Ser Ser
 260 265 270
 Thr Val Val Gly Thr Leu Ala Gly Gln Val Val Met Gln Gly Phe Val
 275 280 285
 Arg Phe His Ile Pro Leu Trp Val Arg Arg Ser Val Thr Met Leu Pro
 290 295 300
 Ser Phe Val Val Ile Leu Met Gly Leu Asp Pro Thr Arg Ile Leu Val
 305 310 315 320
 Met Ser Gln Val Leu Leu Ser Phe Gly Ile Ala Leu Ala Leu Val Pro
 325 330 335
 Leu Leu Ile Phe Asp Val Ile Xaa Pro Gly Met Glu Gly Ser Ala Leu
 340 345 350

<210> 5680

<211> 357

<212> PRT

<213> Enterobacter cloacae

<220>

<221> UNSURE

<222> (354)

<400> 5680

Thr Asp Glu Arg Ile Leu Thr Met Ser Asn Val Phe Tyr Met Pro Pro
 1 5 10 15
 Val Thr Leu Met Gly Leu Asn Ala Ile Arg Leu Leu Gly Asp Glu Leu
 20 25 30
 Val Ser Arg Glu Leu Lys Lys Ala Leu Ile Val Thr Asp Arg Val Leu
 35 40 45
 Ala Asp Thr Gly Leu Val Asn Lys Leu Thr Asp Glu Leu Glu Ala His
 50 55 60
 Lys Ile Ser Tyr Ala Ile Phe Asp Gly Val Gln Pro Asn Pro Thr Glu
 65 70 75 80
 Lys Asn Ile Asp Asp Gly Leu Ala Leu Leu Ala Lys Ser Asn Ala Asp
 85 90 95
 Phe Val Ile Ser Phe Gly Gly Gly Ser Ser His Asp Thr Ala Lys Gly
 100 105 110
 Ile Ala Leu Val Ala Thr Asn Gly Gly His Ile Arg Asp Tyr Ser Lys
 115 120 125
 Gly Val His Leu Ser Lys Lys Pro Gln Leu Pro Leu Val Thr Val Asn
 130 135 140
 Thr Thr Ala Gly Thr Ala Ser Glu Met Thr Val Phe Ala Ile Val Thr
 145 150 155 160
 Asn Gln Glu Asp Glu Thr Lys Tyr Pro Val Val Asp Lys His Phe Thr
 165 170 175
 Pro Ile Ile Ala Val Asn Asp Ser Glu Leu Met Val Ala Met Pro Ala
 180 185 190

Phe Leu Thr Ala Thr Thr Gly Met Asp Ala Leu Thr His Ala Ile Glu
 195 200 205
 Ala Tyr Val Ser Thr Ala Ala Thr Pro Val Thr Asp Ala Cys Ala Ile
 210 215 220
 Lys Ala Ile Glu Ile Ile Val Asn Asn Leu Lys Asp Val Val Asp Asp
 225 230 235 240
 Gly Gln Asn Arg Glu Ala Arg Asp Ala Met Gln Tyr Gly Glu Tyr Leu
 245 250 255
 Ala Gly Met Ala Phe Ser Asn Ala Ser Leu Gly Tyr Val His Ser Met
 260 265 270
 Ala His Gln Leu Gly Gly Val Tyr Asn Leu Ser His Gly Leu Cys Asn
 275 280 285
 Ala Ile Leu Leu Gly Glu Val Ser Arg Phe Asn Ala Lys Lys Val Pro
 290 295 300
 Asp Arg Phe Val Glu Ile Ala Arg Ala Met Gly Ile Asp Val Ser Thr
 305 310 315 320
 Met Thr Gln Glu Gln Ala Ile Asn Ser Ala Ile Glu Ala Ile Glu Met
 325 330 335
 Leu Ser Gln Lys Val Gly Thr Asn Gln Arg Leu Ala Asp Arg Ala Ser
 340 345 350
 Arg Xaa Ser Pro
 355

<210> 5681

<211> 179

<212> PRT

<213> Enterobacter cloacae

<400> 5681

Gly Pro Lys Asp Leu Phe Pro Gln Lys Cys Asp Arg Val Met Ile Asp
 1 5 10 15
 Ala Ser Ser Val Val Ile Gly Asp Val Arg Met Ala Asp Asp Val Ser
 20 25 30
 Ile Trp Pro Leu Val Ala Ile Arg Gly Asp Val Asn Tyr Val Ala Ile
 35 40 45
 Gly Ala Arg Thr Asn Ile Gln Asp Gly Ser Val Leu His Val Thr His
 50 55 60
 Lys Ser Ser Tyr Asn Pro Glu Gly Asn Pro Leu Ile Ile Gly Glu Asp
 65 70 75 80
 Val Thr Val Gly His Lys Val Met Leu His Gly Cys Thr Ile Gly Asn
 85 90 95
 Arg Val Leu Val Gly Met Gly Ser Ile Leu Leu Asp Gly Val Ile Val
 100 105 110
 Glu Asp Asp Val Met Ile Gly Ala Gly Ser Leu Val Pro Gln Asn Lys
 115 120 125
 Arg Leu Glu Ser Gly Tyr Leu Tyr Leu Gly Ser Pro Ile Lys Gln Ile
 130 135 140
 Arg Pro Leu Lys Glu Ala Glu Ile Glu Gly Leu Lys Tyr Ser Ala Asn
 145 150 155 160
 Asn Tyr Val Lys Trp Lys Asn Asp Tyr Leu Asp Gln Asp Asn Gln Thr
 165 170 175
 Gln Pro

<210> 5682

<211> 66

<212> PRT

<213> Enterobacter cloacae

<400> 5682

Asn Ile Tyr Ala Tyr Asp Met Phe Tyr Gln Lys Gly Lys Thr Pro Phe

```

1           5           10           15
Leu Thr Trp Cys Glu Gln Gln Gly Ala Lys His Val Ala Asp Gly Leu
      20           25           30
Gly Met Leu Val Gly Gln Ala Ala His Ala Val Leu Leu Trp His Gly
      35           40           45
Val Leu Pro Ala Val Glu Pro Val Ile Glu Lys Leu Lys Lys Glu Leu
      50           55           60
Met Val
65

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<210> 5683

<211> 119

<212> PRT

<213> Enterobacter cloacae

<400> 5683

```

Trp Ser Gly His Ala Gly Gly Ala Gly Gly Ser Cys Gly Ala Thr Leu
1           5           10           15
Ala Trp Arg Val Thr Cys Cys Arg Thr Gly Asp Arg Lys Ala Glu Lys
      20           25           30
Gly Thr Asp Gly Met Asn Gln Ala Ile His Phe Pro Asp Arg Glu Ile
      35           40           45
Trp Asp Glu Asn Lys Gln Ala Val Cys Phe Pro Val Leu Val His Gly
      50           55           60
Met Gln Leu Thr Cys Ala Ile Lys Gly Glu Thr Leu Leu Gln Arg Phe
      65           70           75           80
Gly Gly Ser Asp Pro Leu Ala Val Phe Cys Glu Asn Arg Trp Asp Leu
      85           90           95
Glu Glu Glu Ala Ser Asp Leu Ile Arg Val Gln Gln Glu Asp Asp Gln
      100           105           110
Gly Trp Val Trp Leu Ser
      115

```

<210> 5684

<211> 66

<212> PRT

<213> Enterobacter cloacae

<400> 5684

```

Ser Thr His Tyr Ala Gln Arg Lys Leu Gly Gly Arg Trp Gln Leu Arg
1           5           10           15
Gln Asn Phe Val Tyr Leu Val Ala Ile Phe Ala His Ile His Asn Leu
      20           25           30
Trp Ser Val Lys Ile Leu Ser Pro Gln Pro Val Ile Tyr Ala Leu Met
      35           40           45
Ala Leu Ala Leu Leu Ala Trp Arg Tyr Lys Lys Phe Arg Gln Trp Leu
      50           55           60
Arg
65

```

<210> 5685

<211> 174

<212> PRT

<213> Enterobacter cloacae

<400> 5685

```

Lys Gly Asp Asn Cys Ala Leu Arg Val Tyr Val Val Phe Tyr Pro Lys
1           5           10           15
Ile Ala Gly Asp Ser Gly Ile Met Ala Asp Lys Phe Gln Ile Leu Val
      20           25           30
Leu Asn Gly Pro Asn Leu Asn Met Leu Gly Thr Arg Glu Pro Glu Lys

```

```

      35              40              45
Tyr Gly Thr Leu Thr Leu Ser Glu Ile Val Asn Arg Leu Ser Thr Glu
  50              55              60
Ala Ala Ser Leu Asn Val Asp Leu Asp His Phe Gln Ser Asn Ala Glu
  65              70              75              80
Tyr Ala Ile Ile Asp Arg Ile His Gln Ala Lys Asp Thr Val Asp Tyr
      85              90              95
Ile Leu Ile Asn Pro Ala Ala Phe Thr His Thr Ser Val Ala Ile Arg
      100              105              110
Asp Ala Leu Leu Ala Val Ser Ile Pro Phe Ile Glu Ile His Leu Ser
      115              120              125
Asn Val His Ala Arg Glu Pro Phe Arg His His Ser Tyr Leu Ser Asp
      130              135              140
Ile Ala Ala Gly Val Ile Cys Gly Leu Gly Ala Asp Gly Tyr Ser Tyr
      145              150              155              160
Ala Leu Gln Thr Ala Val Lys Arg Leu Ser Gln Ser His
      165              170

```

```

<210> 5686
<211> 197
<212> PRT
<213> Enterobacter cloacae

```

```

<400> 5686
Gln Arg His Thr Pro Ala Ala Lys Asn Trp His Pro Tyr Cys Lys Thr
  1              5              10              15
Cys Leu Thr Thr Gln Pro Leu Pro Ala Arg Tyr Phe Arg Thr Gly Gly
      20              25              30
Asn Met Asn Leu Arg Arg Leu Lys Tyr Phe Val Lys Ile Val Asp Ile
      35              40              45
Gly Ser Leu Thr Gln Ala Ala Glu Val Leu His Ile Ala Gln Pro Ala
      50              55              60
Leu Ser Gln Gln Val Ala Thr Leu Glu Gly Glu Met Asp Gln Gln Leu
      65              70              75              80
Leu Ile Arg Thr Lys Arg Gly Val Thr Pro Thr Glu Ala Gly Lys Ile
      85              90              95
Leu Tyr Thr His Ala Arg Thr Ile Leu Arg Gln Cys Glu Gln Ala Gln
      100              105              110
Leu Ala Val His Asn Val Gly Gln Thr Leu Ser Gly His Val Ser Ile
      115              120              125
Gly Leu Ala Pro Gly Thr Ala Ala Ser Ser Val Thr Met Pro Leu Leu
      130              135              140
Gln Ala Val Arg Ala Glu Leu Pro Glu Val Leu Val Tyr Leu His Glu
      145              150              155              160
Asn Ser Gly Ser Val Leu Asn Asp Lys Leu Leu Asn Gly Gln Leu Asp
      165              170              175
Met Gly Gly Ala Val Arg Ser Leu Pro Gly Cys Arg Asp His Gln Pro
      180              185              190
Ala Ala Ala Glu
      195

```

```

<210> 5687
<211> 80
<212> PRT
<213> Enterobacter cloacae

```

```

<400> 5687
Leu Ile Asp Gln Pro Val Lys Val Thr Thr Glu Pro Asp Gly Ser Arg
  1              5              10              15
Trp Val Glu Val His Glu Pro Leu Ser Arg Asn Arg Ala Glu Phe Glu
      20              25              30

```

Ser Thr Asn Lys Val Pro Leu Pro Ile Ser Ala Ala Gln Arg Thr Gln
 35 40 45
 Leu Ile Ser Glu Gly Ala Gly Ala Glu Leu Glu Arg Arg Ser Gly Met
 50 55 60
 Pro Val Lys Leu Ala Met Thr Gly Ser Ala Ser Leu Ala Gly Pro
 65 70 75 80

<210> 5688

<211> 114

<212> PRT

<213> Enterobacter cloacae

<400> 5688

Pro Cys Arg Cys Phe Arg Arg Cys Glu Gln Ser Tyr Arg Lys Cys Trp
 1 5 10 15
 Phe Ile Cys Met Arg Thr Val Val Pro Cys Ser Met Thr Asn Cys Ser
 20 25 30
 Thr Val Ser Trp Ile Trp Ala Val Leu Tyr Asp Arg Ser Pro Val Ala
 35 40 45
 Gly Ile Thr Ser Gln Pro Leu Asn Glu Asp Leu Tyr Leu Val Gly
 50 55 60
 Thr Arg Asp Cys Pro Gly Gln Ser Ile Asp Leu Thr Ala Val Ala Gln
 65 70 75 80
 Met Asn Leu Phe Leu Ala Arg Asp Tyr Ser Ala Leu Arg Leu Arg Phe
 85 90 95
 Asp Glu Thr Pro Ser Leu Arg Pro Leu Asn Ala Asn Asn Phe Leu Leu
 100 105 110
 Glu

<210> 5689

<211> 164

<212> PRT

<213> Enterobacter cloacae

<400> 5689

Pro Val Tyr Thr Pro Leu Ala Leu Arg Asp Trp Phe Arg Ala Ala Pro
 1 5 10 15
 Arg Asn Pro Leu Lys Pro Leu Pro Arg Leu Arg Leu Val Gln His Arg
 20 25 30
 Ala Asp Arg Glu Lys Ile Ser Arg Pro Ser Arg Arg Tyr Gln Glu Ala
 35 40 45
 Gly Leu Ala Asp Lys Arg Ser Lys Met Leu Thr Met Trp Val Thr Glu
 50 55 60
 Asp Glu His Arg Arg Leu Leu Glu Arg Cys Glu Gly Lys Gln Leu Ala
 65 70 75 80
 Ala Trp Met Arg Gln Thr Cys Leu Asp Glu Lys Pro Ala Arg Ala Gly
 85 90 95
 Lys Leu Pro Ser Ile Ser Pro Ala Leu Leu Arg Gln Leu Ala Gly Met
 100 105 110
 Gly Asn Asn Leu Asn Gln Ile Ala Arg Gln Val Asn Ala Gly Gly Gly
 115 120 125
 Ser Gly His Asp Arg Val Gln Ile Val Ala Ala Leu Met Ala Ile Asp
 130 135 140
 Ala Gly Leu Glu Arg Leu Arg His Ala Val Leu Glu Lys Gly Ala Asp
 145 150 155 160
 Asp Asp Arg

<210> 5690

<211> 232

<212> PRT

<213> Enterobacter cloacae

<400> 5690

```

Trp Pro Ser Met Pro Asp Ser Ser Gly Cys Gly Met Pro Tyr Trp Lys
1      5      10      15
Arg Val Leu Met Met Ile Val Lys Phe His Pro Arg Gly Arg Gly Gly
      20      25      30
Gly Gly Gly Pro Val Asp Tyr Leu Leu Gly Lys Asp Arg Gln Arg Asp
      35      40      45
Gly Ala Ser Val Leu Gln Gly Lys Pro Asp Glu Val Arg Glu Leu Ile
      50      55      60
Asp Ala Ser Pro Tyr Ala Lys Lys Tyr Thr Ser Gly Val Leu Ser Phe
65      70      75      80
Ala Glu Gln Asp Leu Pro Pro Gly Gln Arg Glu Lys Leu Met Ala Ser
      85      90      95
Phe Glu Arg Val Leu Met Pro Gly Leu Asp Lys Asp Gln Tyr Ser Val
      100     105     110
Leu Trp Val Glu His Arg Asp Lys Gly Arg Leu Glu Leu Asn Phe Leu
      115     120     125
Ile Pro Asn Thr Glu Leu Leu Thr Gly Lys Arg Ile Gln Pro Tyr Tyr
      130     135     140
Asp Arg Ala Asp Arg Pro Arg Ile Asp Ala Trp Gln Thr Ile Val Asn
145     150     155     160
Gly Arg Leu Gly Leu His Asp Pro Asn Ala Pro Glu Asn Arg Arg Val
      165     170     175
Leu Val Ser Pro Ser Ala Leu Pro Glu Ala Lys Gln Glu Ala Ala Gln
      180     185     190
Ala Ile Thr Ser Gly Leu Leu Ala Leu Ala Ser Ser Gly Glu Leu Lys
      195     200     205
Thr Arg Gln Asp Val Thr Glu Ala Leu Glu Ser Ala Gly Phe Glu Val
      210     215     220
Val Arg Thr Thr Gln Gly Arg Ile
225      230

```

<210> 5691

<211> 464

<212> PRT

<213> Enterobacter cloacae

<400> 5691

```

Arg Met Ala Gly Asn Ile Asp Ile Pro Pro Ile Arg Ala Asp Lys Cys
1      5      10      15
Leu Phe Phe Pro Thr Ile Asn Arg Glu Asn Ile Met Ser Val Val Pro
      20      25      30
Val Ala Asp Val Leu Gln Gly Arg Val Ala Val Asp Gln Glu Val Thr
      35      40      45
Val Arg Gly Trp Val Arg Thr Arg Arg Asp Ser Lys Ala Gly Ile Ser
      50      55      60
Phe Leu Ala Val Tyr Asp Gly Ser Cys Phe Asp Pro Val Gln Ala Val
65      70      75      80
Ile Asn Asn Ser Leu Pro Asn Tyr Asn Asp Asp Val Leu His Leu Thr
      85      90      95
Thr Gly Cys Ser Val Ile Val Thr Gly Val Val Val Ala Ser Pro Gly
      100     105     110
Gln Gly Gln Ser Tyr Glu Ile Gln Ala Thr Ser Val Glu Val Thr Gly
      115     120     125
Trp Val Glu Asp Pro Asp Thr Tyr Pro Met Ala Ala Lys Arg His Ser
      130     135     140
Ile Glu Tyr Leu Arg Glu Val Ala Gln Leu Arg Pro Arg Thr Asn Leu
145     150     155     160

```

```

Ile Gly Ala Val Ala Arg Val Arg His Thr Leu Ala Gln Ala Leu His
      165      170      175
Arg Phe Phe Asp Glu Gln Gly Tyr Phe Trp Val Ser Thr Pro Leu Ile
      180      185      190
Thr Ala Ser Asp Thr Glu Gly Ala Gly Glu Met Phe Arg Val Ser Thr
      195      200      205
Leu Asp Met Glu Asn Leu Pro Arg Thr Pro Glu Gly Lys Val Asp Tyr
      210      215      220
Asp Lys Asp Phe Phe Gly Lys Glu Ala Phe Leu Thr Val Ser Gly Gln
      225      230      235      240
Leu Asn Gly Glu Thr Tyr Ala Cys Ala Leu Ser Lys Ile Tyr Thr Phe
      245      250      255
Gly Pro Thr Phe Arg Ala Glu Asn Ser Asn Thr Ser Arg His Leu Ala
      260      265      270
Glu Phe Trp Met Leu Glu Pro Glu Val Ala Phe Ala Asp Leu Asn Asp
      275      280      285
Val Ala Gly Leu Ala Glu Ala Met Leu Lys Tyr Val Phe Lys Ala Val
      290      295      300
Leu Glu Glu Arg Ala Asp Asp Met Lys Phe Phe Ala Glu Arg Val Asp
      305      310      315      320
Asn Asp Ala Ile Ala Arg Leu Glu Arg Phe Val Ser Ala Asp Phe Ala
      325      330      335
Gln Val Asp Tyr Thr Asp Ala Val Ala Ile Leu Glu Lys Cys Gly Glu
      340      345      350
Lys Phe Glu Asn Pro Val Tyr Trp Gly Val Asp Leu Ser Ser Glu His
      355      360      365
Glu Arg Tyr Leu Ala Glu Lys His Phe Lys Ala Pro Val Val Val Lys
      370      375      380
Asn Tyr Pro Lys Asp Ile Lys Ala Phe Tyr Met Arg Leu Asn Glu Asp
      385      390      395      400
Gly Lys Thr Val Ala Ala Met Asp Val Leu Ala Pro Gly Ile Gly Glu
      405      410      415
Ile Ile Gly Gly Ser Gln Arg Glu Glu Arg Leu Asp Val Leu Asp Ala
      420      425      430
Arg Met Gln Glu Met Gly Leu Asn Pro Ala Asp Tyr Ser Trp Tyr Arg
      435      440      445
Asp Leu Ser Ser Pro Thr Gly Ala Gly Arg Ile Arg Ala Tyr Leu Thr
      450      455      460

```

<210> 5692

<211> 189

<212> PRT

<213> Enterobacter cloacae

<400> 5692

```

Thr Thr Val Leu Pro Ala Gly Leu Gly Glu Asn Asn Thr Ile Ser Gly
1      5      10      15
Leu Leu Phe Leu Trp Val Pro Thr Arg Lys Thr Asn Phe Ile His Gly
      20      25      30
Glu Pro Leu Arg Gly Val Ile Thr Gln Ser Glu Asp Phe Arg Met Ala
      35      40      45
Lys Lys Val Gln Ala Tyr Val Lys Leu Gln Val Ala Ala Gly Met Ala
      50      55      60
Asn Pro Ser Pro Pro Val Gly Pro Ala Leu Gly Gln Gln Gly Val Asn
65      70      75      80
Ile Met Glu Phe Cys Lys Ala Phe Asn Ala Lys Thr Glu Ser Met Glu
      85      90      95
Lys Gly Leu Pro Ile Pro Val Val Ile Thr Val Tyr Ala Asp Arg Ser
      100      105      110
Phe Thr Phe Val Thr Lys Thr Pro Pro Ala Ala Val Leu Leu Lys Lys
      115      120      125

```

Ala Ala Gly Ile Lys Ser Gly Ser Gly Lys Pro Asn Lys Asp Lys Val
 130 135 140
 Gly Lys Ile Ser Arg Ala Gln Leu Gln Glu Ile Ala Gln Thr Lys Ala
 145 150 155 160
 Ala Asp Met Thr Gly Ser Asp Ile Glu Ala Met Thr Arg Ser Ile Glu
 165 170 175
 Gly Thr Ala Arg Ser Met Gly Leu Val Val Glu Asp
 180 185

<210> 5693

<211> 236

<212> PRT

<213> Enterobacter cloacae

<400> 5693

Glu Met Ala Lys Leu Thr Lys Arg Met Ser Val Ile Arg Asp Lys Val
 1 5 10 15
 Asp Ala Thr Lys Gln Tyr Asp Ile Asn Glu Ala Ile Ala Leu Leu Lys
 20 25 30
 Glu Leu Ala Thr Ala Lys Phe Val Glu Ser Val Asp Val Ala Val Asn
 35 40 45
 Leu Gly Ile Asp Ala Arg Lys Ser Asp Gln Asn Val Arg Gly Ala Thr
 50 55 60
 Val Leu Pro His Gly Thr Gly Arg Ser Val Arg Val Thr Val Phe Ala
 65 70 75 80
 Gln Gly Ala Asn Ala Glu Ser Ala Lys Ala Ala Gly Ala Glu Leu Val
 85 90 95
 Gly Met Glu Asp Leu Ala Asp Gln Ile Lys Lys Gly Glu Met Asn Phe
 100 105 110
 Asp Val Val Ile Ala Ser Pro Asp Ala Met Arg Val Val Gly Gln Leu
 115 120 125
 Gly Gln Val Leu Gly Pro Arg Gly Leu Met Pro Asn Pro Lys Val Gly
 130 135 140
 Thr Val Thr Pro Asn Val Ala Glu Ala Val Lys Asn Ala Lys Ala Gly
 145 150 155 160
 Gln Val Arg Tyr Arg Asn Asp Lys Asn Gly Ile Ile His Thr Thr Ile
 165 170 175
 Gly Lys Val Asp Phe Asp Ala Asp Lys Leu Lys Glu Asn Leu Glu Ala
 180 185 190
 Leu Leu Val Ala Leu Lys Lys Ala Lys Pro Thr Gln Ala Lys Gly Val
 195 200 205
 Tyr Ile Lys Lys Val Ser Ile Ser Thr Thr Met Gly Ala Gly Val Ala
 210 215 220
 Val Asp Gln Ala Gly Leu Ser Ala Ala Ala Asn
 225 230 235

<210> 5694

<211> 105

<212> PRT

<213> Enterobacter cloacae

<220>

<221> UNSURE

<222> (98)

<400> 5694

Ser Glu Phe Arg Asn Met Ser Ser Gly Lys His Pro Gly Ala Lys Leu
 1 5 10 15
 Met Ala Leu Asn Leu Gln Asp Lys Gln Ala Ile Val Ala Glu Val Ser
 20 25 30
 Glu Val Ala Lys Gly Ala Leu Ser Ala Val Val Ala Asp Ser Arg Gly

```

          35          40          45
Val Thr Val Asp Lys Met Thr Glu Leu Arg Lys Ala Gly Arg Glu Ala
  50          55          60
Gly Val Tyr Met Arg Val Val Arg Asn Thr Leu Leu Arg Arg Val Val
  65          70          75          80
Glu Gly Thr Gln Phe Glu Cys Leu Lys Asp Thr Leu Val Gly Leu His
          85          90          95
His Xaa Ala Ala Gln Gly Pro Ala Ile
          100          105

```

<210> 5695

<211> 128

<212> PRT

<213> Enterobacter cloacae

<400> 5695

```

Arg Ser Thr Lys Met Ile Gln Glu Gln Thr Met Leu Asn Val Ala Asp
  1          5          10          15
Asn Ser Gly Ala Arg Arg Val Met Cys Ile Lys Val Leu Gly Gly Ser
          20          25          30
His Arg Arg Tyr Ala Gly Val Gly Asp Ile Ile Lys Ile Thr Ile Lys
          35          40          45
Glu Ala Ile Pro Arg Gly Lys Val Lys Lys Gly Asp Val Leu Lys Ala
          50          55          60
Val Val Val Arg Thr Lys Lys Gly Val Arg Arg Pro Asp Gly Ser Val
          65          70          75          80
Ile Arg Phe Asp Gly Asn Ala Cys Val Ile Leu Asn Asn Asn Ser Glu
          85          90          95
Gln Pro Ile Gly Thr Arg Ile Phe Gly Pro Val Thr Arg Glu Leu Arg
          100          105          110
Thr Glu Lys Phe Met Lys Ile Ile Ser Leu Ala Pro Glu Val Leu
          115          120          125

```

<210> 5696

<211> 200

<212> PRT

<213> Enterobacter cloacae

<400> 5696

```

Gln Arg Asn Tyr Gln Val Ile Trp Ser Ser Thr Met Ala Lys Leu His
  1          5          10          15
Asp Tyr Tyr Lys Asp Glu Val Val Asn Lys Leu Met Thr Glu Phe Asn
          20          25          30
Tyr Asn Ser Val Met Gln Val Pro Arg Val Glu Lys Ile Thr Leu Asn
          35          40          45
Met Gly Val Gly Glu Ala Ile Ala Asp Lys Lys Leu Leu Asp Asn Ala
          50          55          60
Ala Ala Asp Leu Thr Ala Ile Ser Gly Gln Lys Pro Leu Ile Thr Lys
          65          70          75          80
Ala Arg Lys Ser Val Ala Gly Phe Lys Ile Arg Gln Gly Tyr Pro Ile
          85          90          95
Gly Cys Lys Val Thr Leu Arg Gly Glu Arg Met Trp Glu Phe Leu Glu
          100          105          110
Arg Leu Ile Thr Ile Ala Val Pro Arg Ile Arg Asp Phe Arg Gly Leu
          115          120          125
Ser Ala Lys Ser Phe Asp Gly Arg Gly Asn Tyr Ser Met Gly Val Arg
          130          135          140
Glu Gln Ile Ile Phe Pro Glu Ile Asp Tyr Asp Lys Val Asp Arg Val
          145          150          155          160
Arg Gly Leu Asp Ile Thr Ile Thr Thr Thr Gly Lys Ser Asp Glu Lys
          165          170          175

```

Gly Arg Ala Leu Leu Ala Ala Phe Glu Phe Pro Val Pro Gln Val Lys
 180 185 190
 Val Arg Phe Thr Glu Met Ala
 195 200

<210> 5697
 <211> 119
 <212> PRT
 <213> Enterobacter cloacae

<400> 5697
 Lys Leu Ser Leu Trp His Gln Lys Tyr Ser Lys Glu Arg Ile Met Ala
 1 5 10 15
 Ala Lys Ile Arg Arg Asp Asp Glu Val Ile Val Leu Thr Gly Lys Asp
 20 25 30
 Lys Gly Lys Arg Gly Lys Val Lys Asn Val Leu Ser Ser Gly Lys Leu
 35 40 45
 Val Val Glu Gly Ile Asn Leu Val Lys Lys His Gln Lys Pro Val Pro
 50 55 60
 Ala Leu Asn Gln Pro Gly Gly Ile Val Glu Lys Glu Ala Ala Ile Gln
 65 70 75 80
 Val Ser Asn Val Ala Ile Phe Asn Ala Ala Thr Gly Lys Ala Asp Arg
 85 90 95
 Val Gly Phe Arg Phe Glu Asp Gly Lys Lys Val Arg Phe Phe Lys Ser
 100 105 110
 Asn Ser Glu Thr Ile Lys
 115

<210> 5698
 <211> 352
 <212> PRT
 <213> Enterobacter cloacae

<220>
 <221>UNSURE
 <222>(278)

<220>
 <221>UNSURE
 <222>(352)

<400> 5698
 Leu Arg Leu Ala Leu Gly Gly Val Thr His Thr Asp Ser Phe Leu His
 1 5 10 15
 Leu Lys Ile Lys Gly Asp Met Ile Ala Arg Ile Phe Ser Phe Leu Ser
 20 25 30
 His Arg Ser Val Arg Val Phe Ala Pro Met Lys Thr Met Lys Ile Ala
 35 40 45
 Val Ser Arg Glu Leu Val Ser Lys Val Ser Thr His Arg Glu Lys Val
 50 55 60
 Met Leu Asp Asn Thr Asp Phe Thr Asp Val Ala Ala Val Val Ile Thr
 65 70 75 80
 Val Val Glu Ser Tyr Ser Gly Ile Leu Ala Leu Leu Lys Arg Thr Gly
 85 90 95
 Phe Gln Leu Pro Val Phe Met Phe Ser Thr Glu Pro Gly Glu Val Pro
 100 105 110
 Glu Gly Val Thr Ala Ile Ile Ser Gly Lys Ala Gln Glu Leu Leu Glu
 115 120 125
 Leu Glu Ser Ala Ala Cys Arg Tyr Glu Glu Asn Leu Leu Pro Pro Phe
 130 135 140
 Phe Asp Thr Leu Ser Gln Tyr Val Ala Met Gly Asn Ser Thr Phe Ala

```

145          150          155          160
Cys Pro Gly His Gln His Gly Ala Phe Phe Lys Lys His Pro Ala Gly
          165          170          175
Arg Gln Phe Tyr Asp Phe Phe Gly Glu Asn Val Phe Arg Ala Asp Met
          180          185          190
Cys Asn Ala Asp Val Lys Leu Gly Asp Leu Leu Ile His Glu Gly Ser
          195          200          205
Ala Lys His Ala Gln Lys Phe Ala Ala Lys Val Phe Asn Ala Asp Lys
          210          215          220
Thr Tyr Phe Val Leu Asn Gly Thr Ser Ala Ala Asn Lys Val Val Thr
225          230          235          240
Asn Ala Leu Leu Thr Arg Gly Asp Leu Val Leu Phe Asp Arg Asn Asn
          245          250          255
His Lys Ser Asn His His Gly Ala Leu Ile Gln Ala Gly Ala Thr Pro
          260          265          270
Val Tyr Leu Glu Ala Xaa Arg Asn Pro Phe Gly Phe Ile Gly Gly Ile
          275          280          285
Asp Glu His Cys Phe Asp Glu Ala Trp Leu Arg Glu Leu Ile Arg Asp
          290          295          300
Val Ala Pro Gln Lys Ala Ala Glu Ala Arg Pro Phe Pro Ser Gly Asp
305          310          315          320
His Ser Ala Pro His Leu Pro Met Ala Arg Ile Tyr Asn Ala Arg Ser
          325          330          335
Gly Glu Ser Thr Asn Ile Arg Ala Pro Leu Arg Leu Thr Ser Leu Xaa
          340          345          350

```

<210> 5699

<211> 177

<212> PRT

<213> Enterobacter cloacae

<400> 5699

```

Gln Glu Leu Asn Val Val Ile Gly Pro Phe Ile Asn Ala Gly Ala Val
1          5          10          15
Leu Leu Gly Gly Val Leu Gly Ala Val Leu Ser Gln Arg Leu Pro Glu
          20          25          30
Arg Ile Arg Val Ser Met Pro Ser Ile Phe Gly Leu Ala Ser Leu Gly
          35          40          45
Ile Gly Ile Leu Leu Val Val Lys Cys Ala Asn Leu Pro Val Met Val
          50          55          60
Leu Ala Thr Leu Leu Gly Ala Leu Ile Gly Glu Phe Cys Tyr Leu Glu
65          70          75          80
Lys Gly Ile Asn His Ala Val Gly Lys Ala Lys Asn Leu Ile Ala Arg
          85          90          95
Pro Gly Lys Ala Lys His Gly Thr His Glu Ser Phe Ile Gln Asn Tyr
          100          105          110
Val Ala Ile Ile Ile Leu Phe Cys Ala Ser Gly Thr Gly Ile Phe Gly
          115          120          125
Ser Met Gln Glu Gly Met Thr Gly Asp Pro Ser Ile Leu Ile Ala Lys
          130          135          140
Ala Phe Leu Asp Phe Phe Thr Ala Thr Ile Phe Ala Thr Thr Leu Gly
145          150          155          160
Ile Ala Val Ala Ala Ser Leu His His Gly Pro Glu Gly Pro Arg Met
          165          170          175
Arg

```

<210> 5700

<211> 172

<212> PRT

<213> Enterobacter cloacae

<400> 5700

```

Ile Ile Thr Ser Met Arg Ser Asn Arg Phe Glu Ala Phe Ala Met Leu
1          5          10          15
Leu Ser Leu Pro Phe Leu Leu Ile Tyr Phe Ala Leu Ser Ala Leu Leu
20          25          30
Val Arg Thr Asp Ile Arg Thr Gly Leu Leu Pro Asp Lys Phe Leu Cys
35          40          45
Pro Leu Leu Trp Thr Gly Leu Leu Tyr Gln Leu Cys Leu His Pro Asp
50          55          60
Phe Leu Pro Ser Ala Val Val Gly Ala Met Ala Gly Tyr Ala Gly Phe
65          70          75          80
Ala Val Ile Tyr Trp Gly Tyr Arg Leu Ile Cys Arg Arg Glu Gly Met
85          90          95
Gly Tyr Gly Asp Ile Lys Tyr Leu Ala Ala Leu Gly Ala Trp His Gly
100         105         110
Trp Cys Val Leu Pro Val Leu Ala Leu Val Ala Ala Leu Met Ala Leu
115         120         125
Leu Tyr Leu Val Ala Phe Ser Leu Phe Thr Pro Asp Lys Gln Ala Leu
130         135         140
Lys Asn Pro Leu Pro Phe Gly Pro Phe Leu Ala Ala Gly Leu Cys
145         150         155         160
Val Gly Trp Glu Ser Leu Ile Asn Phe Pro Leu
165         170

```

<210> 5701

<211> 173

<212> PRT

<213> Enterobacter cloacae

<400> 5701

```

Pro Asp Leu Arg Phe Asn Glu Trp Lys Arg Arg Asp Tyr Ile Met Lys
1          5          10          15
Gly Asp Val Lys Ile Ile Ser Tyr Leu Asn Lys Leu Leu Gly Asn Glu
20          25          30
Leu Val Ala Ile Asn Gln Tyr Phe Leu His Ala Arg Met Phe Lys Asn
35          40          45
Trp Gly Leu Thr Arg Leu Asn Asp Val Glu Tyr His Glu Ser Ile Asp
50          55          60
Glu Met Lys His Ala Asp Lys Tyr Ile Glu Arg Ile Leu Phe Leu Glu
65          70          75          80
Gly Ile Pro Asn Leu Gln Asp Leu Gly Lys Leu Gly Ile Gly Glu Asp
85          90          95
Val Glu Glu Met Leu Arg Ser Asp Leu Arg Leu Glu Leu Gly Ala
100         105         110
Lys Asp Leu Arg Glu Ala Ile Ala Tyr Ala Asp Ser Val His Asp Tyr
115         120         125
Val Ser Arg Asp Met Met Ile Gln Ile Leu Ala Asp Glu Glu Gly His
130         135         140
Ile Asp Trp Leu Glu Thr Glu Leu Asp Leu Ile Ser Lys Ile Gly Leu
145         150         155         160
Gln Asn Tyr Leu Gln Ser Gln Ile Lys Val Glu Ser
165         170

```

<210> 5702

<211> 391

<212> PRT

<213> Enterobacter cloacae

<400> 5702

```

Ser Ala Thr Lys Ser Gly Thr Gly Thr Gly Arg Thr Thr Met Ile Lys

```

```

1           5           10           15
Ser Thr Asp Arg Lys Leu Val Val Gly Leu Glu Ile Gly Thr Ala Lys
20           25           30
Val Ala Ala Leu Val Gly Glu Val Leu Pro Asp Gly Met Val Asn Ile
35           40           45
Ile Gly Val Gly Ser Cys Pro Ser Arg Gly Met Asp Lys Gly Gly Val
50           55           60
Asn Asp Leu Glu Ser Val Val Lys Cys Val Gln Arg Ala Ile Asp Gln
65           70           75           80
Ala Glu Leu Met Ala Asp Cys Gln Ile Ser Ser Val Tyr Leu Ala Leu
85           90           95
Ser Gly Lys His Ile Ser Cys Gln Asn Glu Ile Gly Met Val Pro Ile
100          105          110
Ser Glu Glu Glu Val Thr Gln Glu Asp Val Glu Asn Val Val His Thr
115          120          125
Ala Lys Ser Val Arg Val Arg Asp Glu His Arg Val Leu His Val Ile
130          135          140
Pro Gln Glu Tyr Ala Ile Asp Tyr Gln Glu Gly Ile Lys Asn Pro Val
145          150          155          160
Gly Leu Ser Gly Val Arg Met Gln Ala Lys Val His Leu Ile Thr Cys
165          170          175
His Asn Asp Met Ala Lys Asn Ile Val Lys Ala Val Glu Arg Cys Gly
180          185          190
Leu Lys Val Asp Gln Leu Ile Phe Ala Gly Leu Ala Ala Ser Tyr Ser
195          200          205
Val Leu Thr Glu Asp Glu Arg Glu Leu Gly Val Cys Val Val Asp Ile
210          215          220
Gly Gly Gly Thr Met Asp Met Ala Val Tyr Thr Gly Gly Ala Leu Arg
225          230          235          240
His Thr Lys Val Ile Pro Tyr Ala Gly Asn Val Val Thr Ser Asp Ile
245          250          255
Ala Tyr Ala Phe Gly Thr Pro Pro Ser Asp Ala Glu Ala Ile Lys Val
260          265          270
Arg His Gly Cys Ala Leu Gly Ser Ile Val Gly Lys Asp Glu Ser Val
275          280          285
Glu Val Pro Ser Val Gly Gly Arg Pro Pro Arg Ser Leu Gln Arg Gln
290          295          300
Thr Leu Ala Glu Val Ile Glu Pro Arg Tyr Thr Glu Leu Leu Asn Leu
305          310          315          320
Val Asn Glu Glu Ile Leu Gln Leu Gln Glu Gln Leu Arg Gln Gln Gly
325          330          335
Val Lys His His Leu Ala Ala Gly Ile Val Leu Thr Gly Gly Ala Ala
340          345          350
Gln Ile Glu Gly Leu Ala Ala Cys Ala Gln Arg Val Phe His Thr Gln
355          360          365
Val Arg Ile Gly Ala Pro Leu Asn Ile Thr Gly Leu Thr Asp Phe Leu
370          375          380
Thr Arg Gly Gly Val Lys Arg
385          390

```

<210> 5703

<211> 85

<212> PRT

<213> Enterobacter cloacae

<400> 5703

```

Ala Arg Arg Ser Trp Gln Leu Thr Leu Thr Asn Gly Ile Lys Leu Asn
1           5           10           15
Leu Gly Arg Gly Asp Thr Met Lys Arg Leu Ala Arg Phe Val Glu Leu
20           25           30
Tyr Pro Val Leu Gln Gln Gln Ala Gln Thr Asp Gly Lys Arg Ile Ser

```



```

      35              40              45
Tyr Val Asp Leu Arg Tyr Asp Ser Gly Ala Ala Val Gly Trp Glu Pro
   50              55              60
Ala Pro Val Glu Glu Pro Asn Gln Gln Gln Asn Gln Ala Gln Val Gln
   65              70              75              80
Ala Glu Gln Gln
              85

```

<210> 5704

<211> 219

<212> PRT

<213> Enterobacter cloacae

<400> 5704

```

Ile Tyr Leu Glu Val Phe Met Ala Val Ala Ala Asn Lys Arg Ser Val
1              5              10              15
Met Thr Leu Phe Ser Gly Pro Thr Asp Ile Tyr Ser His Gln Val Arg
      20              25              30
Ile Val Leu Ala Glu Lys Gly Val Ser Phe Glu Ile Glu His Val Glu
      35              40              45
Lys Asp Asn Pro Pro Gln Asp Leu Ile Asp Leu Asn Pro Ser Gln Ser
      50              55              60
Val Pro Thr Leu Val Asp Arg Glu Leu Thr Leu Trp Glu Ser Arg Ile
      65              70              75              80
Ile Met Glu Tyr Leu Asp Glu Arg Phe Pro His Pro Pro Leu Met Pro
      85              90              95
Val Tyr Pro Val Ala Arg Gly Glu Ser Arg Leu Tyr Met Gln Arg Ile
      100              105              110
Glu Lys Asp Trp Tyr Ser Leu Met Asn Val Ile Val Asn Gly Ser Ser
      115              120              125
Ser Glu Ala Asp Ala Ala Arg Lys Gln Leu Arg Glu Glu Leu Leu Ala
      130              135              140
Ile Ala Pro Val Phe Gly Gln Lys Pro Phe Phe Leu Ser Asp Glu Phe
      145              150              155              160
Ser Leu Val Asp Cys Tyr Leu Ala Pro Leu Leu Trp Arg Leu Pro Thr
      165              170              175
Leu Gly Val Glu Phe Ser Gly Pro Gly Ala Lys Glu Leu Lys Gly Tyr
      180              185              190
Met Thr Arg Val Phe Glu Arg Asp Ser Phe Leu Ala Ser Leu Thr Glu
      195              200              205
Pro Glu Arg Glu Met Arg Leu Gly Arg Gly
      210              215

```

<210> 5705

<211> 72

<212> PRT

<213> Enterobacter cloacae

<400> 5705

```

Asn Ala Ser Arg Pro Arg Leu Met Thr Val Glu Met Ser Gln Leu Ser
1              5              10              15
Pro Arg Arg Pro Tyr Met Leu Arg Ala Phe Tyr Glu Trp Leu Leu Asp
      20              25              30
Asn Gln Leu Thr Pro His Leu Val Val Asp Val Thr Leu Pro Gly Val
      35              40              45
Leu Val Pro Met Glu Tyr Ala Arg Asp Gly Gln Ser Ser Pro Arg Arg
      50              55              60
Trp Gln Asp Pro Arg Leu Ala Leu
      65              70

```

<210> 5706

<211> 111
 <212> PRT
 <213> Enterobacter cloacae

<400> 5706

```

Tyr Thr Glu Ile Ala Phe Arg Lys Thr Cys Ile Glu Pro Gln Ser Arg
1          5          10          15
Cys Leu Leu Thr Arg Ile Lys Gly Val Ile Met Glu Lys Asn Ser Glu
          20          25          30
Val Ile Gln Thr His Pro Leu Val Gly Trp Asp Ile Ser Thr Val Asp
          35          40          45
Ser Tyr Asp Ala Leu Met Leu Arg Leu His Tyr Gln Thr Pro Asn Gln
          50          55          60
Leu Asn Arg Asp Glu Ala Glu Val Gly Gln Thr Leu Trp Leu Thr Thr
65          70          75          80
Asp Val Ala Arg Gln Phe Ile Ser Ile Leu Glu Ala Gly Ile Ala Lys
          85          90          95
Ile Glu Ser Gly Asp Tyr Gln Glu Asn Glu Tyr Lys Arg His
          100          105          110

```

<210> 5707
 <211> 233
 <212> PRT
 <213> Enterobacter cloacae

<400> 5707

```

Gln Ser Val Ser Lys Glu Lys Pro Met Lys Tyr Asp Leu Ile Ile Ile
1          5          10          15
Gly Ser Gly Ser Val Gly Ser Ala Ala Gly Tyr Tyr Ala Thr Gln Ala
          20          25          30
Gly Leu Asn Val Leu Met Ile Asp Ala His Arg Pro Pro His Ser Glu
          35          40          45
Gly Ser His His Gly Asp Thr Arg Leu Ile Arg His Ala Tyr Gly Glu
          50          55          60
Gly Glu Arg Tyr Val Pro Leu Val Leu Arg Ala Gln Thr Leu Trp Asp
65          70          75          80
Glu Leu Ala Ala Leu Thr Glu Glu Arg Ile Phe Glu Arg Thr Gly Val
          85          90          95
Val Asn Leu Gly Pro Ala Ser Ser Thr Phe Leu Ala Thr Val Glu Glu
          100          105          110
Ser Ala Lys Ala Tyr Arg Leu Asp Val Glu Arg Leu Asp Ala Asn Gly
          115          120          125
Ile Met Ala Arg Trp Pro Glu Ile Ser Val Pro Glu Asp Tyr Ile Gly
          130          135          140
Leu Phe Glu Ala Asn Ser Gly Val Leu His Ser Glu Thr Ala Ile Asn
145          150          155          160
Thr Trp Ile Asp Leu Ala Ala Lys Ala Gly Cys Ala Gln Leu Phe Asn
          165          170          175
Cys Pro Val Thr Gly Ile Thr His His Ala Glu Gly Ser Thr Val Thr
          180          185          190
Thr Ser Glu Gly Glu Tyr Thr Ala Thr Arg Leu Leu Val Ser Ala Gly
          195          200          205
Thr Trp Val Thr Lys Leu Leu Pro Asp Leu Pro Ile His Pro Val Arg
          210          215          220
Lys Val Phe Ser Trp Val Pro Val
225          230

```

<210> 5708
 <211> 158
 <212> PRT
 <213> Enterobacter cloacae

<400> 5708

```

His Leu Phe Asp Val Ala Leu Lys Phe Arg Val Leu Ile Leu Tyr Glu
1      5      10      15
Val Val Leu Leu Arg Val Tyr Glu Ala Lys Ala Lys Thr Arg Ser Tyr
      20      25      30
Leu Met Ala Thr Val Asn Gln Leu Val Arg Lys Pro Arg Ala Arg Lys
      35      40      45
Val Ala Lys Ser Asn Val Pro Ala Leu Glu Ala Cys Pro Gln Lys Arg
      50      55      60
Gly Val Cys Thr Arg Val Tyr Thr Thr Thr Pro Lys Lys Pro Asn Ser
65      70      75      80
Ala Leu Arg Lys Val Cys Arg Val Arg Leu Thr Asn Gly Phe Glu Val
      85      90      95
Thr Ser Tyr Ile Gly Gly Glu Gly His Asn Leu Gln Glu His Ser Val
      100     105     110
Ile Leu Ile Arg Gly Gly Arg Val Lys Asp Leu Pro Gly Val Arg Tyr
      115     120     125
His Thr Val Arg Gly Ala Leu Asp Cys Ser Gly Val Lys Asp Arg Lys
      130     135     140
Gln Ala Arg Ser Lys Tyr Gly Val Lys Arg Pro Lys Ala
145      150      155

```

<210> 5709

<211> 137

<212> PRT

<213> Enterobacter cloacae

<400> 5709

```

Gln Arg Ser Asn Pro Met Pro Arg Arg Arg Val Ile Gly Gln Arg Lys
1      5      10      15
Ile Leu Pro Asp Pro Lys Phe Gly Ser Glu Leu Leu Ala Lys Phe Val
      20      25      30
Asn Ile Leu Met Val Asp Gly Lys Lys Ser Thr Ala Glu Ala Ile Val
      35      40      45
Tyr Ser Ala Leu Glu Thr Leu Ala Gln Arg Ser Gly Lys Asn Glu Leu
      50      55      60
Glu Ala Phe Glu Val Ala Leu Asp Asn Val Arg Pro Thr Val Glu Ile
65      70      75      80
Lys Ser Arg Arg Val Gly Gly Ser Thr Tyr Gln Val Pro Val Glu Val
      85      90      95
Arg Pro Val Arg Arg Asn Ala Leu Ala Met Arg Trp Ile Val Glu Ala
      100     105     110
Ala Arg Lys Arg Gly Asp Lys Ser Met Ala Leu Arg Leu Ala Asn Glu
      115     120     125
Leu Ser Asp Ala Ala Glu Asn Lys Gly
      130     135

```

<210> 5710

<211> 113

<212> PRT

<213> Enterobacter cloacae

<400> 5710

```

Thr Phe Val Phe Arg Ser Ile Arg Lys Phe Val Arg Gln Thr Gln Ser
1      5      10      15
His Gly Phe Ile Thr Ala Phe Thr Ser Ser Phe Asn Asp Pro Thr His
      20      25      30
Cys Gln Ser Ile Thr Thr Asn Arg Thr Asn Phe Asn Trp Asn Leu Ile
      35      40      45
Ser Arg Thr Thr Asn Ala Ala Arg Leu Asn Phe Tyr Ser Arg Ala His

```

50		55		60
Val Val Glu Ser Asp Phe Glu Gly Phe Gln Phe Ile Phe Thr Arg Thr				
65		70		75
Leu Ser Gln Gly Leu Gln Arg Ala Val Tyr Asp Cys Phe Cys Gly Arg				
	85		90	95
Phe Phe Thr Ile Tyr His Gln Asp Ile Tyr Lys Phe Cys Gln Gln Phe				
	100		105	110

<210> 5711
 <211> 185
 <212> PRT
 <213> Enterobacter cloacae

<220>
 <221> UNSURE
 <222> (165)

<400> 5711

Lys Leu Tyr Ala Arg Glu Ala Phe Met Pro Arg Arg Gln Ile Leu Ser				
1	5		10	15
Ser Glu Glu Gln Glu Arg Leu Leu Val Ile Pro Asp Asp Glu Ile Ile				
	20		25	30
Leu Thr Arg Met Cys Phe Leu Asn Glu Pro Asp Ile Ala Leu Ile Asn				
	35		40	45
Lys His Arg Arg Pro Ala Asn Arg Leu Gly Phe Ala Val Leu Leu Cys				
	50		55	60
Tyr Leu Arg Gly Pro Gly Phe Ile Pro Asp Lys Ser Ser Ala Pro His				
	65		70	75
Asn Gly Val Val Ser Arg Val Ala Ser Arg Leu Lys Leu Gln Pro Asp				
	85		90	95
Leu Trp Pro Glu Tyr Ala Ser Arg Glu Gln Thr Arg Trp Glu His Leu				
	100		105	110
Thr Glu Leu Tyr Arg Tyr Leu Glu Leu Ser Pro Phe Ser Arg Ser Met				
	115		120	125
Gln Lys Glu Cys Ile Arg His Leu Gln Pro Tyr Ala Met Arg Thr Asp				
	130		135	140
Lys Arg Phe Met Leu Ala Gly Arg Asn Ala His Leu Gly Tyr Ile Asn				
	145		150	155
Asn Asn Val Tyr Xaa Pro Leu Leu Leu Lys Val Ile Gln Thr Asp Ala				
	165		170	175
Leu Pro Lys Ser Phe Thr Leu Arg				
	180		185	

<210> 5712
 <211> 212
 <212> PRT
 <213> Enterobacter cloacae

<400> 5712

Phe Arg Thr His Val Ile Ile Arg Thr Ser Ile Ser Tyr Gly Lys Phe				
1	5		10	15
Pro Met Ser Arg Val Phe Ala Tyr Cys Arg Val Ser Thr Leu Glu Gln				
	20		25	30
Thr Thr Glu Asn Gln Arg Arg Glu Ile Glu Ala Ala Gly Phe Ala Ile				
	35		40	45
Arg Ser Gln Arg Leu Ile Glu Glu His Ile Ser Gly Ser Val Ala Ala				
	50		55	60
Ser Glu Arg Pro Gly Phe Ile Arg Leu Leu Asp Arg Met Glu Asn Gly				
	65		70	75
				80

Asp Val Leu Ile Val Thr Lys Leu Asp Arg Leu Gly Arg Asn Ala Met
 85 90 95
 Asp Ile Arg Lys Thr Val Glu Gln Leu Ala Ala Leu Asp Ile Arg Val
 100 105 110
 His Cys Leu Ala Leu Gly Gly Val Asp Leu Thr Ser Pro Ala Gly Lys
 115 120 125
 Met Thr Met Gln Val Ile Ser Ala Val Ala Glu Phe Glu Arg Asp Leu
 130 135 140
 Leu Leu Glu Arg Thr Tyr Ser Gly Ile Ala Arg Ala Lys Ala Ala Gly
 145 150 155 160
 Lys Arg Phe Gly Arg Pro Pro Ile Leu Ser Glu Glu Gln Lys Gln Thr
 165 170 175
 Val Thr Glu Arg Leu Asn Ala Gly Ile Ser Ile Ser Ala Ile Ala Arg
 180 185 190
 Glu Phe Asn Thr Thr Arg Gln Ile Ile Leu Arg Val Lys Ala Gly Leu
 195 200 205
 Leu Gln Glu
 210

<210> 5713

<211> 134

<212> PRT

<213> Enterobacter cloacae

<400> 5713

Ser Pro Phe Ala Gly Leu Arg Leu Phe Gly Glu Lys Ser Asp Ser Val
 1 5 10 15
 Ile Cys Gly His Ser Asn Cys Gly Ala Met Lys Ala Ile Ala Asp Asn
 20 25 30
 Ala Asp Leu Glu Pro Met Pro Ala Val Ser His Trp Leu Arg Tyr Ser
 35 40 45
 Asp Ala Ala Lys Ala Val Val Glu Lys Lys Thr Trp Asp Lys Pro Ile
 50 55 60
 Asp Lys Val Asn Ala Met Val Gln Glu Asn Val Phe Ala Gln Leu Ser
 65 70 75 80
 Asn Ile Lys Thr His Pro Ser Val Ala Val Gly Leu Arg Asn Asn Ala
 85 90 95
 Ile Arg Leu His Gly Trp Val Tyr Asp Ile Glu Ser Gly Lys Ile Leu
 100 105 110
 Ala Leu Asp Lys Asn Thr Lys Ser Phe Val Ser Leu Ser Glu Asn Pro
 115 120 125
 Glu Val Phe Phe Glu
 130

<210> 5714

<211> 303

<212> PRT

<213> Enterobacter cloacae

<400> 5714

Gly Val Glu Leu Phe Gly Ser Ala Ala Pro Leu Val Lys Thr Glu Ala
 1 5 10 15
 Asp Phe Tyr Cys Pro Ile Pro Tyr Glu Pro Leu Ser Val Leu Thr Asp
 20 25 30
 Cys Val Val Ala Ser Glu Ile Asp Lys Gly Pro Asp Gly Leu Leu Asp
 35 40 45
 Arg Ile Phe Ala Leu Met Val Lys Glu Leu Glu Leu Ala Asp Pro Arg
 50 55 60
 Trp Cys Gln Ala Ile Ala Leu Gly Thr Leu Asn Ala Asp Thr Leu Arg
 65 70 75 80
 Asp Ala Trp Phe Glu Asp Arg Lys Lys His Gly Pro Phe Thr Trp Ala

```
<210> 5715
<211> 127
<212> PRT
<213> Enterobacter cloacae
```

```
<210> 5716
<211> 119
<212> PRT
<213> Enterobacter cloacae
```

```

<400> 5716
Leu Met Arg Gly Pro Ala Ala Pro Leu Val Lys Thr Thr Gly Met Ser
1          5          10          15
Pro Thr Glu Tyr Ile Met Gln Ala Leu Ala Gly Cys Tyr Thr Ala Thr
          20          25          30

```

Leu Thr Met Met Ala Ala Glu Lys Gly Ile Asp Leu Asp Gly Ile Glu
 35 40 45
 Leu Asp Leu Asn Phe Asp Ile Asn Leu Asn Gly Phe Leu Gly Leu Asp
 50 55 60
 Ser Asn Val Arg Lys Gly Ala Lys Ser Ile Arg Val Asp Val His Leu
 65 70 75 80
 Thr Ser Asn Thr Ala Ser Arg Glu Glu Leu Glu Ala Leu Val Ser Glu
 85 90 95
 Met Gln Lys Asn Ser Pro Ile His Asp Thr Leu Ala Asn Pro Val Glu
 100 105 110
 Met Ile Thr Arg Leu Ala
 115

<210> 5717

<211> 208

<212> PRT

<213> Enterobacter cloacae

<400> 5717

Gln Gln Tyr Asn Leu Ser Thr Ser Arg Leu Tyr Gly Val Ile Met Thr
 1 5 10 15
 Thr Met Thr Arg Glu Arg Leu Leu Ser Glu Ala Glu His Leu Met Arg
 20 25 30
 Glu Lys Gly Tyr Ser Ala Phe Ser Tyr Ala Asp Leu Ser Lys Ile Val
 35 40 45
 Gly Ile Thr Lys Ala Ser Ile His His His Phe Pro Thr Lys Asp Ile
 50 55 60
 Leu Gly Glu Gln Val Val Ile Gln Ala Phe Ser Asp Thr Gln Arg Val
 65 70 75 80
 Phe Glu Gln Ile Glu Ala Thr Glu Lys Ser Ala Glu Arg Arg Ile Ala
 85 90 95
 Ala Tyr Ile Asp Ile Phe Ala Gln Ser His Lys Ala Ser Leu Leu Pro
 100 105 110
 Leu Cys Cys Ala Leu Ser Ala Glu Thr Ala Asn Leu Pro Gln Ala Ile
 115 120 125
 Thr Val Gln Thr Ser Leu Tyr Phe Asp Met Gln Ile Glu Trp Leu Thr
 130 135 140
 Lys Val Val Arg Ala Gly Met Glu Ser Gly Glu Phe Ser Ser His Ala
 145 150 155 160
 Glu Pro Ser Asp Ile Ala Leu Met Ile Ile Asn Val Cys Glu Gly Ser
 165 170 175
 Ser Val Val Ala His Ala Thr Ala Arg Pro Glu Val Phe Ala Asn Ser
 180 185 190
 Leu Lys Tyr Ile Lys Leu Leu Leu Asn Thr Pro His Ser Gly Glu
 195 200 205

<210> 5718

<211> 262

<212> PRT

<213> Enterobacter cloacae

<400> 5718

Ser Arg Leu His Arg Arg Ile Ala Pro Phe Glu Asp His Ala Ile Ser
 1 5 10 15
 Ala Thr Leu Lys Glu Ser Leu Thr Lys Gln Gly Val Glu Phe Leu Thr
 20 25 30
 Gly Ala Asp Leu Lys Gln Val Lys Val Gly Gly Asp Leu Val Ile Cys
 35 40 45
 Thr Val Ile Val Gly Glu Asp Thr His Val Ile Thr Ala Glu Lys Ile
 50 55 60
 Leu Ile Ala Thr Gly Arg Arg Pro Val Thr Glu Lys Leu Asn Leu Asp

65 70 75 80
 Ala Val Asn Val Ser Val Gly Ala Arg Gly Gln Val Ile Val Asp Lys
 85 90 95
 His Leu Met Thr Ser Asn Pro Arg Ile Trp Ala Ala Gly Asp Val Thr
 100 105 110
 Gly Glu Ala Gln Phe Val Tyr Val Ala Val Glu Gln Gly Arg Leu Ala
 115 120 125
 Ala Ser Asn Ala Leu Gly Gly Glu Leu Ser Ser Leu Asp Tyr Asn Ala
 130 135 140
 Leu Pro Arg Val Thr Phe Thr Ser Pro Glu Leu Ala Ser Val Gly Leu
 145 150 155 160
 Thr Pro Leu Gln Ala Glu Glu Arg Gly Ile Pro Tyr Glu Ile Arg Glu
 165 170 175
 Leu Pro Val Ala Phe Val Leu Arg Ala Ile Val Ser Arg His Ser Asp
 180 185 190
 Gly Leu Ile Arg Leu Val Ser Asp Ser Gln Thr Gly Thr Ile Leu Gly
 195 200 205
 Val His Met Val Ser Glu Ser Ala Gly Asp Val Ile Ala Ala Ala Thr
 210 215 220
 Tyr Ile Ile Ser Ala Asn Met Thr Val His Gln Leu Ala Asn Ile Trp
 225 230 235 240
 Ser Pro Glu Phe Thr Met Thr Glu Ser Leu Lys Asn Val Ala Lys Thr
 245 250 255
 Ser Pro Ile Thr Asn
 260

<210> 5719

<211> 83

<212> PRT

<213> Enterobacter cloacae

<220>

<221> UNSURE

<222> (25)

<400> 5719

Gly His Met Ser Gln Gln Leu Thr Phe Ala Asp Ser Glu Phe Ser Ser
 1 5 10 15
 Lys Arg Arg Leu Thr Arg Lys Glu Xaa Phe Leu Ser Arg Met Asp Thr
 20 25 30
 Leu Leu Pro Trp Pro Gln Leu Leu Gly Asn Ile Glu Pro Val Tyr Pro
 35 40 45
 Lys Thr Gly Asn Gly Arg Arg Pro Tyr Ser Leu Glu Thr Met Ser Arg
 50 55 60
 Asn Pro Cys Leu Gln Leu Trp Tyr Asn Leu Gly Asp Glu Thr Met Glu
 65 70 75 80
 Asp Ala Leu

<210> 5720

<211> 166

<212> PRT

<213> Enterobacter cloacae

<400> 5720

Arg Glu Pro Ser Met Asn Ser Leu Leu Thr Leu Ala Lys Asp Leu Glu
 1 5 10 15
 Gln Lys Ser Lys Ala Gln Gln Gln Thr Thr Gly Glu Met Leu Lys Ala
 20 25 30
 Ala Phe Ser Glu His Glu Lys Ser Val Arg Ala Glu Leu Ser Glu Ser
 35 40 45

Glu Lys Arg Ile Ser Ala Ala Ile Leu Asp His Asp Arg Lys Leu Ser
 50 55 60
 Ser Ala Met Ser Gln Arg Thr Lys Gly Met Leu Arg Met Val Ser Gln
 65 70 75 80
 Thr Trp Leu Thr Ile Val Leu Val Ser Ala Leu Leu Ile Ala Ser Ser
 85 90 95
 Ala Gly Ile Leu Trp Trp Gln Gly Gln Gln Ile Leu Glu Asn Tyr Thr
 100 105 110
 Thr Ile Arg Glu Gln Lys Ser Thr Gln Ala Met Leu Ser Glu Arg Asn
 115 120 125
 Ser Gly Val Gln Leu Ser Thr Cys Gly Glu Gln Arg Arg Arg Cys Val
 130 135 140
 Arg Val Asn Pro Glu Ala Gly Gln Phe Gly Glu Asp Ser Ser Trp Met
 145 150 155 160
 Ile Leu Ala Gly Lys
 165

<210> 5721

<211> 73

<212> PRT

<213> Enterobacter cloacae

<400> 5721

His Met Thr Glu Leu Glu Lys Gln Leu Leu Ser Ala Leu Glu Gln Leu
 1 5 10 15
 Gln Gln Asp Tyr Ser Lys Arg Leu Asp Glu Trp Glu Asn Ala Phe Ala
 20 25 30
 Glu Trp Arg Thr Met Ser Gly Leu Ile Gln Arg Glu Asn Ala Ala Leu
 35 40 45
 Asn Glu Arg Val Thr Val Leu Ser Arg Gln Val Gln Ser Leu Ser Glu
 50 55 60
 Gln Leu Arg Arg Leu Ser Lys Gly
 65 70

<210> 5722

<211> 287

<212> PRT

<213> Enterobacter cloacae

<400> 5722

Pro Thr Leu Pro Ser Thr Asp Gly Gly Arg Asn Ile Arg Leu Lys Gly
 1 5 10 15
 Ala Ile Tyr Glu Gln Ser Phe Asn Ala Gly Glu Gly Leu Arg Ala Glu
 20 25 30
 Ile Glu Ser Ala Ala Ala Asp Tyr Arg Arg Asp Ala Glu Ser Arg Ile
 35 40 45
 Gln Arg Ala Arg Glu Val Cys Gln Ser Gly Thr Glu Arg Lys Arg Glu
 50 55 60
 Glu Asn Gln Arg Arg His Pro Arg Pro Arg Pro Glu Ala Val Leu Ser
 65 70 75 80
 His Glu Pro Ala His Glu Arg Asp Ala Ala His Gly Gln Pro Asp Val
 85 90 95
 Ala Asp His Arg Ser Gly Leu Arg Ala Ala Asp Ser Val Glu Arg Gly
 100 105 110
 His Ser Val Ala Gly Ala Ala Asp Thr Arg Glu Leu Tyr Asp His
 115 120 125
 Pro Gly Ala Glu Glu His Ala Gly His Ala Val Arg Glu Glu Gln Arg
 130 135 140
 Arg Thr Ala Leu Asp Leu Arg Arg Ala Glu Thr Pro Leu Arg Glu Gly
 145 150 155 160
 Glu Pro Gly Ser Gly Thr Val Arg Arg Gly Leu Glu Leu Asp Asp Thr

```
<210> 5723
<211> 209
<212> PRT
<213> Enterobacter cloacae
```

```
<210> 5724
<211> 124
<212> PRT
<213> Enterobacter cloacae
```

```

<400> 5724
Leu Thr Arg Cys Phe Thr Gly Ser Val His Lys Asn Met Ser Ser His
1          5          10
Tyr Leu Arg Ile Phe Gln Gln Pro Lys Ser Ala Ile Leu Leu Ile Leu
          20          25          30

```

Gly Phe Ala Ser Gly Leu Pro Leu Ala Leu Thr Ser Gly Thr Leu Gln
 35 40 45
 Ala Trp Met Thr Val Glu Asn Ile Asp Leu Lys Thr Ile Gly Phe Phe
 50 55 60
 Ser Leu Val Gly Gln Ala Tyr Val Phe Lys Phe Leu Trp Ser Pro Val
 65 70 75 80
 Met Asp Arg Tyr Thr Pro Pro Phe Leu Gly Arg Arg Arg Gly Trp Leu
 85 90 95
 Ala Met Thr Gln Ala Leu Leu Leu Leu Ala Ile Ala Ala Pro Val Ser
 100 105 110
 Leu Ser Cys Glu Gln Ser Gly Ser Pro Lys Gly
 115 120

<210> 5725

<211> 79

<212> PRT

<213> Enterobacter cloacae

<400> 5725

Arg Cys Arg Arg Ser Asp Phe Met Met Ile Arg Glu Gln Ile Glu Glu
 1 5 10 15
 Lys Leu Arg Ala Ala Phe Asn Pro Val Phe Leu Glu Val Val Asp Glu
 20 25 30
 Ser Tyr Arg His Asn Val Pro Ala Gly Ser Glu Ser His Phe Lys Val
 35 40 45
 Val Leu Val Ser Asp Arg Phe Thr Gly Glu Arg Phe Leu Asn Arg His
 50 55 60
 Arg Ser Ile Cys Leu His Cys Arg Val Pro Val Arg Ala Met Leu
 65 70 75

<210> 5726

<211> 255

<212> PRT

<213> Enterobacter cloacae

<220>

<221> UNSURE

<222> (253)

<400> 5726

Thr Ala Pro Val His Ser Gly Ala Val Leu Thr Phe Leu Lys Thr Leu
 1 5 10 15
 Arg Lys Arg Arg Tyr Phe Glu Phe Tyr Glu Ala Ser Asn Met Val Pro
 20 25 30
 Val Val Ala Leu Val Gly Arg Pro Asn Val Gly Lys Ser Thr Leu Phe
 35 40 45
 Asn Arg Leu Thr Arg Thr Arg Asp Ala Leu Val Ala Asp Phe Pro Gly
 50 55 60
 Leu Thr Arg Asp Arg Lys Tyr Gly Arg Ala Glu Val Glu Gly Arg Glu
 65 70 75 80
 Phe Ile Cys Ile Asp Thr Gly Gly Ile Asp Gly Thr Glu Asp Gly Val
 85 90 95
 Glu Thr Arg Met Ala Glu Gln Ser Leu Leu Ala Ile Glu Glu Ala Asp
 100 105 110
 Val Val Leu Phe Met Val Asp Ala Arg Ala Gly Leu Met Pro Ala Asp
 115 120 125
 Ser Ala Ile Ala Lys His Leu Arg Ser Arg Glu Lys Pro Thr Phe Leu
 130 135 140
 Val Ala Asn Lys Thr Asp Gly Ile Asp Ala Asp Gln Ala Ile Ala Asp
 145 150 155 160
 Phe Trp Ser Leu Gly Leu Gly Asp Ile Tyr Pro Ile Ala Ala Ser His

				165				170					175				
Gly	Arg	Gly	Val	Thr	Ser	Leu	Leu	Glu	Thr	Val	Leu	Leu	Pro	Trp	Val		
			180					185					190				
Asp	Glu	Val	Asn	Pro	Pro	Glu	Glu	Val	Asp	Glu	Asp	Ala	Glu	Tyr	Trp		
		195					200					205					
Ala	Gln	Phe	Glu	Ala	Gly	Glu	Glu	Gly	Glu	Glu	Glu	Pro	Glu	Asp	Asp		
	210					215					220						
Phe	Asn	Pro	Gln	Asp	Leu	Pro	Ile	Lys	Leu	Ala	Ile	Val	Gly	Arg	Pro		
225					230					235					240		
Asn	Val	Gly	Lys	Ser	Thr	Leu	Thr	Asn	Arg	Ile	Phe	Xaa	Arg				
				245				250						255			

<210> 5727

<211> 202

<212> PRT

<213> Enterobacter cloacae

<400> 5727

Leu	Phe	Ser	Arg	Gly	Cys	Ser	Tyr	Val	Val	Lys	Thr	Phe	Gly	Ala	Ala		
1				5					10					15			
Ile	Val	Gly	Gly	Asp	Asn	Gly	Arg	Val	Ser	Ala	Val	Leu	Met	Gln	Gln		
		20					25					30					
Gly	Gln	Met	Ile	Trp	Gln	Gln	Arg	Ile	Ser	Gln	Ala	Thr	Gly	Ser	Thr		
	35					40					45						
Glu	Ile	Asp	Arg	Leu	Ser	Asp	Val	Asp	Thr	Thr	Pro	Val	Ile	Val	Asp		
	50					55				60							
Gly	Val	Val	Tyr	Ala	Leu	Ala	Tyr	Asn	Gly	Asn	Leu	Thr	Ala	Leu	Asp		
65				70				75						80			
Leu	Arg	Ser	Gly	Gln	Ile	Met	Trp	Lys	Arg	Glu	Leu	Gly	Ser	Val	Asn		
			85					90					95				
Asp	Phe	Ile	Val	Asp	Gly	Asn	Arg	Ile	Tyr	Met	Val	Asp	Gln	Asn	Asp		
		100					105					110					
Arg	Leu	Leu	Ala	Leu	Ser	Thr	Glu	Gly	Gly	Val	Thr	Leu	Trp	Thr	Gln		
	115					120					125						
Ser	Asp	Leu	Leu	His	Arg	Leu	Leu	Thr	Ala	Pro	Ala	Leu	Tyr	Asn	Gly		
	130					135				140							
Ser	Leu	Val	Val	Gly	Asp	Ser	Glu	Gly	Tyr	Met	His	Trp	Ile	Asp	Pro		
145				150					155					160			
Glu	Asn	Gly	Arg	Phe	Val	Ala	Gln	Gln	Lys	Val	Asp	Ser	Ser	Gly	Phe		
			165				170							175			
Leu	Thr	Glu	Pro	Val	Val	Ala	Asp	Gly	Lys	Leu	Leu	Ile	Gln	Ala	Lys		
		180					185						190				
Asp	Gly	Thr	Leu	Tyr	Ala	Ile	Thr	Arg									
	195						200										

<210> 5728

<211> 154

<212> PRT

<213> Enterobacter cloacae

<400> 5728

Val	Ile	Val	Thr	His	His	Pro	Ser	Leu	Leu	Cys	Leu	Lys	Asn	Ser	Arg		
1				5					10					15			
Val	Gln	Pro	Pro	Lys	Ser	Thr	Ala	Lys	Thr	Tyr	Asn	His	Thr	Ile	Lys		
		20					25					30					
Pro	Ser	Asp	Phe	Gln	Met	Cys	Arg	Thr	Asp	Lys	Phe	Gln	Leu	Ser	Val		
	35					40					45						
Leu	Asn	Thr	Ile	Ile	Phe	Thr	Ile	Asp	Ala	Pro	Ile	Lys	Thr	Gly	Leu		
	50					55				60							
Ser	Ile	Asn	His	Leu	Ser	Ile	Ile	Ser	Gly	Tyr	Ser	Lys	Trp	His	Leu		
65				70					75					80			

Gln Lys Ile Phe Lys His His Phe Gly Met Ser Leu Gly Thr Tyr Ile
 85 90 95
 Arg Arg Lys Arg Ile Glu Tyr Ala Ala His Glu Ile Ile Asn Lys Lys
 100 105 110
 Cys Lys Ile Ile Asp Val Val Ile Asp Phe Asn Phe Ser Asn Gln Ser
 115 120 125
 Ser Phe Cys Arg Thr Phe Lys Ser Ile Tyr Gly Val Ser Pro Lys Glu
 130 135 140
 Phe Lys Ser Glu His Ile Asn His Leu
 145 150

<210> 5729

<211> 64

<212> PRT

<213> Enterobacter cloacae

<400> 5729

Lys Gly Lys Trp Val Ser Phe Arg Glu Trp Arg Ala Arg Val Arg Phe
 1 5 10 15
 Leu Asn Ser Leu Pro Leu Leu Arg Thr Glu Lys Thr Ile Gln Glu Ile
 20 25 30
 Ser Tyr Leu Leu Gly Tyr Ser Asn Thr Ser Ser Phe Ile Ile Met Phe
 35 40 45
 Glu Lys Leu Ser Gly Thr Thr Pro Glu Lys Tyr Arg Lys Asn Ile
 50 55 60

<210> 5730

<211> 120

<212> PRT

<213> Enterobacter cloacae

<400> 5730

Ser Cys Leu Phe Leu Cys Phe Phe Cys Pro Phe Met Leu Ile Ile Phe
 1 5 10 15
 Asn Thr Met Cys Val Ile Ile Ile Ala Thr Glu Leu Glu Lys Arg Cys
 20 25 30
 Ile Met Lys Asn Val Leu Ser Leu Ser Leu Leu Leu Phe Ile Ser Ser
 35 40 45
 Gly Tyr Ala Ala Ser Glu Val Thr Tyr Leu Asn Pro Thr Pro Gln Gly
 50 55 60
 Ala Val Arg Ile Gly Glu Val Ser Phe Phe Lys Ala Gly Ser Ala Thr
 65 70 75 80
 Gln Ser Glu Val Ile Gly Ser Leu Ser Lys Lys Ala Asp Ser Leu Gly
 85 90 95
 Gly Thr His Phe Glu Ile Ser Ser Leu Asn Ser Ser Asp Asn Thr Tyr
 100 105 110
 Ala Thr Ala Ile Val Tyr Lys
 115 120

<210> 5731

<211> 72

<212> PRT

<213> Enterobacter cloacae

<400> 5731

Thr Leu Gly Thr Val Leu Phe Leu Cys Phe Ser Ile Gly Leu Ala Ile
 1 5 10 15
 Thr Met Val Ala Ile Gly Ala Val Ala Ala Val Ser Val Glu Gln Ala
 20 25 30
 Ser Lys Arg Trp Asp Gly Leu Asp Val Leu Ala Arg Arg Ala Pro Tyr
 35 40 45

Phe Ser Ser Ala Leu Ile Ala Leu Gly Gly Ile Tyr Met Gly Tyr His
 50 55 60
 Gly Trp Leu Gly Ile Thr Asn
 65 70

<210> 5732

<211> 104

<212> PRT

<213> Enterobacter cloacae

<400> 5732

Pro Asp Phe Asp Leu Pro Asn Thr Thr Trp Gln Pro Thr Lys Leu Asp
 1 5 10 15
 Leu Glu Asn Ile Leu Glu Pro Ser Pro Arg Arg Ile Trp Pro Asp Ala
 20 25 30
 Tyr Glu Arg Leu Leu Leu Glu Thr Ile Arg Gly Ile Gln Ala Leu Phe
 35 40 45
 Phe His Arg Asp Glu Val Glu Ala Trp Lys Trp Val Asp Ser Ile
 50 55 60
 Thr Glu Ala Trp Ala Ala Asp Gln Asp Ala Pro Lys Pro Tyr Gln Ala
 65 70 75 80
 Gly Thr Trp Gly Pro Val Ala Ser Val Ala Met Ile Thr Arg Asp Gly
 85 90 95
 Arg Ser Trp Asn Glu Phe Glu
 100

<210> 5733

<211> 295

<212> PRT

<213> Enterobacter cloacae

<400> 5733

Ile Arg Gly Ala Phe Met Asn Pro Thr Leu Leu Arg Val Thr Gln Arg
 1 5 10 15
 Ile Val Glu Arg Ser Lys Glu Thr Arg Ala Ala Tyr Leu Ala Arg Ile
 20 25 30
 Glu Gln Ala Lys Ser Glu Thr Val His Arg Ser Gln Leu Ala Cys Gly
 35 40 45
 Asn Leu Ala His Gly Phe Ala Ala Cys Gln Pro Gly Asp Lys Asp Ala
 50 55 60
 Leu Lys Ser Met Leu Arg Asn Asn Ile Ala Ile Ile Thr Ser Tyr Asn
 65 70 75 80
 Asp Met Leu Ser Ala His Gln Pro Tyr Glu Val Tyr Pro Ser Ile Ile
 85 90 95
 Arg Asn Ala Leu His Ser Val Asn Ala Val Gly Gln Val Ala Gly Gly
 100 105 110
 Val Pro Ala Met Cys Asp Gly Val Thr Gln Gly Gln Asp Gly Met Glu
 115 120 125
 Leu Ser Leu Leu Ser Arg Glu Val Ile Ala Met Ser Ala Ala Val Gly
 130 135 140
 Leu Ser His Asn Met Phe Asp Gly Ala Leu Tyr Leu Gly Val Cys Asp
 145 150 155 160
 Lys Ile Val Pro Gly Leu Val Met Ala Ala Leu Ser Phe Gly His Leu
 165 170 175
 Pro Ala Ile Phe Val Pro Ser Gly Pro Met Ala Ser Gly Leu Pro Asn
 180 185 190
 Lys Glu Lys Val Arg Ile Arg Gln Leu Tyr Ala Glu Gly Lys Ala Asp
 195 200 205
 Arg Gln Ala Leu Leu Glu Ala Glu Ala Ala Ser Tyr His Ala Pro Gly
 210 215 220
 Thr Cys Thr Phe Tyr Gly Thr Ala Asn Thr Asn Gln Met Val Val Glu

```

225                230                235                240
Tyr Met Gly Met Gln Leu Pro Gly Ser Ser Phe Ile Gln Pro Asp Ala
                245                250                255
Pro Leu Arg Lys Ala Leu Thr Glu Ala Ala Ser Arg Gln Val Thr Arg
                260                265                270
Leu Thr Gly Asn Gly Asn Glu Trp Met Pro Met Gly Lys Met Val Asp
                275                280                285
Glu Lys Val Ile Val Lys Arg
                290                295

```

<210> 5734

<211> 129

<212> PRT

<213> Enterobacter cloacae

<220>

<221> UNSURE

<222> (15)

<220>

<221> UNSURE

<222> (94)

<400> 5734

```

Gln Asn Gly Arg His Met Leu Thr Cys Tyr Ala Leu Asn His Xaa Arg
1                5                10                15
Thr Lys Thr Gln Leu Ala Thr Ala Ala Gly Val Lys Leu Gln Ser Ile
                20                25                30
Tyr Asn Trp Lys Glu Leu Val Pro Glu Thr Arg Ala His Arg Leu Glu
                35                40                45
Thr Thr Phe Gly Arg Val Leu Thr Phe His Lys Thr Ile Phe Glu Pro
                50                55                60
His Arg Lys Ala Gln Thr Thr Gly Lys Lys Asn Thr Ser Pro Pro Pro
                65                70                75                80
Arg Asp Ser Asn Leu Trp Lys Phe Gln Pro Thr Pro Ser Xaa Ala Phe
                85                90                95
Cys Leu Ala Gly Ala Ala Glu Leu Arg Glu Gly Leu Ser Pro Glu Gly
                100                105                110
Asn Pro Ala Gln Ile Thr Pro Pro Arg Gly Gly Pro Pro Ser Pro Gly
                115                120                125
Trp

```

<210> 5735

<211> 141

<212> PRT

<213> Enterobacter cloacae

<400> 5735

```

Asn Cys Leu Thr Met Lys Asn Met Asn Ser Leu Gly Gln Arg Ile Leu
1                5                10                15
Ala Arg Arg Lys Glu Leu Lys Leu Thr Gln Arg Glu Ala Ala Lys Leu
                20                25                30
Ala Gly Val Ala His Val Thr Ile Ser Gln Trp Glu Arg Asp Glu Thr
                35                40                45
Gln Pro Val Gly Ala Arg Leu Phe Ala Leu Ala Lys Ala Leu Ser Cys
                50                55                60
Thr Pro Thr Trp Leu Met Phe Gly Asp Asp Asp Gln Ala Pro Val Pro
                65                70                75                80
Ala Glu Asp Ile Gln Leu Ala Pro Gln Leu Ser Asp Lys His Arg Glu
                85                90                95

```

Leu Ile Asp Leu Tyr Asp Ser Leu Pro Glu Ser Glu Gln Glu Ala Gln
 100 105 110
 Leu Glu Gln Leu Arg Ala Arg Val Lys Asn Phe Asn Lys Leu Phe Glu
 115 120 125
 Glu Leu Leu Lys Ala Arg Gln Arg Gln Ser Lys Lys
 130 135 140

<210> 5736

<211> 420

<212> PRT

<213> Enterobacter cloacae

<220>

<221> UNSURE

<222> (15)

<400> 5736

Asn Gly Leu Gly Asp Ser Cys Pro Gly Leu Met Glu Lys Gly Xaa Trp
 1 5 10 15
 Ile Ser Gly Glu Leu Phe Val Pro Leu Pro Gly Tyr Leu Phe Gly Tyr
 20 25 30
 His Leu Glu Ser Gly Asp Ile Met Lys Met Lys Cys Asn Asn Arg Leu
 35 40 45
 Leu Arg Leu Ser Ala Ser Leu Thr Leu Ile Ser Leu Val Val Thr Ala
 50 55 60
 Ala Asn Ala Asn Asn Gly Gln Ala Gly Ile Ser Pro Val Ala Ala Met
 65 70 75 80
 Thr Met Lys Glu Ser Ile Leu Phe Ala Leu Asp Arg Asp Pro Ser Val
 85 90 95
 Ser Gln Gln Ala Ala Gln Leu Gly Ile Gly Gln Ala Gln Ile Asp Glu
 100 105 110
 Ala Arg Ser Gly Trp Met Pro Gln Ile Ala Leu Asn Gly Arg Thr Gly
 115 120 125
 His Ser Gln Thr Thr Asp Ser Ser Gly Ser Leu Arg Asn Ser Ala Ala
 130 135 140
 Trp Gly Leu Ser Leu Thr Gln Leu Val Tyr Asp Phe Gly Lys Thr Asn
 145 150 155 160
 Asn Ser Ile Ser Gln Ser Ser Ala Gln Arg Asp Ser Tyr Arg Tyr Gln
 165 170 175
 Leu Met Ser Thr Met Ser Ala Val Ala Glu Lys Thr Ala Leu Ser Tyr
 180 185 190
 Val Glu Val Lys Arg Tyr Ser Asp Leu Leu Gln Ala Ala Lys Glu Asn
 195 200 205
 Val Gln Ala Leu Lys Asn Val Glu Gln Leu Ala Lys Leu Arg Ala Asp
 210 215 220
 Ala Gly Val Ser Ser Thr Ser Asp Glu Leu Gln Thr Arg Thr Arg Ile
 225 230 235 240
 Ala Gly Met Gln Ala Thr Val Glu Gln Tyr Asn Ala Ser Leu Asn Ser
 245 250 255
 Ala Arg Ala Arg Leu Ala Val Leu Thr Gly Ile Gln Ala Glu Arg Tyr
 260 265 270
 Ser Pro Val Pro Gly Gly Leu Ala Val Glu Pro Asp Ser Leu Asn Arg
 275 280 285
 Ile Asp Tyr Ser Leu Ile Pro Thr Val Met Ala Ala Gln Asn Met Glu
 290 295 300
 Arg Ser Ala Gln Tyr Gly Val Glu Thr Ala Lys Ser Gln His Trp Pro
 305 310 315 320
 Thr Leu Ser Leu Lys Gly Gly Arg Thr Arg Tyr Glu Ser Asp Asn Arg
 325 330 335
 Ala Tyr Trp Asp Asp Gln Ile Gln Leu Asn Ile Asp Ala Pro Leu Tyr
 340 345 350

Gln Gly Gly Ala Val Ser Ala Arg Val Arg Gln Ala Glu Gly Ala Arg
 355 360 365
 Ala Met Ala Ser Ser Gln Val Asp Gln Ala Arg Phe Asp Val Leu Gln
 370 375 380
 Lys Ile Leu Arg Arg Thr Gly Arg Leu Asp Arg Gly Ala Trp Thr Asn
 385 390 395 400
 Gly Ser Arg Glu Thr Ser Ala Gly Lys Cys Val Ala Arg Pro Arg Cys
 405 410 415
 Leu Gln Lys
 420

<210> 5737

<211> 399

<212> PRT

<213> Enterobacter cloacae

<220>

<221> UNSURE

<222> (386)

<400> 5737

Arg Ser Gly Gly Val Thr Gln Gln Ser Lys Thr Ser His Trp Ser Thr
 1 5 10 15
 Ile Met Ser Ile Ser Leu Lys Lys Ser Gly Met Leu Lys Leu Gly Leu
 20 25 30
 Ser Leu Val Ala Met Thr Val Ala Ala Ser Val Gln Ala Lys Thr Leu
 35 40 45
 Val Tyr Cys Ser Glu Gly Ser Pro Glu Gly Phe Asn Pro Gln Leu Phe
 50 55 60
 Thr Ser Gly Thr Thr Tyr Asp Ala Ser Ser Val Pro Ile Tyr Asn Arg
 65 70 75 80
 Leu Val Glu Phe Lys Thr Gly Thr Thr Glu Val Ile Pro Gly Leu Ala
 85 90 95
 Glu Lys Trp Asp Ile Ser Glu Asp Gly Lys Thr Tyr Thr Phe His Leu
 100 105 110
 Arg Gln Gly Val Lys Trp Gln Asp Ser Lys Glu Phe Lys Pro Thr Arg
 115 120 125
 Asp Phe Asn Ala Asp Asp Val Val Phe Ser Phe Asp Arg Gln Lys Asn
 130 135 140
 Ala Gln Asn Pro Tyr His Lys Val Ser Gly Gly Ser Tyr Glu Tyr Phe
 145 150 155 160
 Glu Gly Met Gly Leu Pro Asp Leu Ile Ala Glu Val Lys Lys Val Asp
 165 170 175
 Asp Lys Thr Val Gln Phe Val Leu Thr Arg Pro Glu Ala Pro Phe Leu
 180 185 190
 Ala Asp Leu Ala Met Asp Phe Ala Ser Ile Leu Ser Lys Glu Tyr Ala
 195 200 205
 Asp Asn Met Leu Lys Ala Gly Thr Pro Glu Lys Val Asp Leu Asn Pro
 210 215 220
 Ile Gly Thr Gly Pro Phe Gln Leu Leu Gln Tyr Gln Lys Asp Ser Arg
 225 230 235 240
 Ile Leu Tyr Lys Ala Phe Pro Gly Tyr Trp Gly Thr Lys Pro Gln Ile
 245 250 255
 Asp Arg Leu Val Phe Ser Ile Thr Pro Asp Ala Ser Val Arg Tyr Ala
 260 265 270
 Lys Leu Gln Lys Asn Glu Cys Gln Val Met Pro Tyr Pro Asn Pro Ala
 275 280 285
 Asp Ile Ala Arg Met Lys Gln Asp Lys Asn Ile Asn Leu Leu Glu Gln
 290 295 300
 Ala Gly Leu Asn Val Gly Tyr Leu Ser Phe Asn Thr Glu Lys Lys Pro
 305 310 315 320

Phe Asp Asp Val Lys Val Arg Gln Ala Leu Thr Tyr Ala Val Asn Lys
 325 330 335
 Glu Thr Ile Ile Lys Ala Val Tyr Gln Gly Ala Gly Val Ala Ala Lys
 340 345 350
 Asn Leu Ile Pro Pro Thr Met Trp Gly Tyr Asn Asn Asn Leu Lys Asp
 355 360 365
 Tyr Thr Tyr Asp Pro Glu Lys Thr Glu Thr Val Ala Glu Lys Asn Arg
 370 375 380
 Pro Xaa Thr Arg Leu Tyr Arg Gln Pro Val Cys Asp Ala Gly
 385 390 395

<210> 5738

<211> 112

<212> PRT

<213> Enterobacter cloacae

<400> 5738

Met Ala Ile Ala Asp Leu Asp Lys Gln Pro Asp Ser Val Ser Ser Val
 1 5 10 15
 Leu Lys Val Phe Gly Ile Leu Gln Ala Leu Gly Glu Glu Arg Glu Ile
 20 25 30
 Gly Ile Thr Glu Leu Ser Gln Arg Val Met Met Ser Lys Ser Thr Val
 35 40 45
 Tyr Arg Phe Leu Gln Thr Met Lys Ser Leu Gly Tyr Val Ala Gln Glu
 50 55 60
 Gly Glu Ser Glu Lys Tyr Ser Leu Thr Leu Lys Leu Phe Glu Leu Gly
 65 70 75 80
 Ala Arg Ala Leu Gln Asn Val Asp Leu Ile Arg Ser Ala Asp Ile Gln
 85 90 95
 Met Arg Glu Leu Ser Arg Leu Thr Lys Glu Thr Ile His Leu Gly Ala
 100 105 110

<210> 5739

<211> 329

<212> PRT

<213> Enterobacter cloacae

<400> 5739

Asn Ser Tyr Ser Glu Asn Asn Phe Thr Leu Ser His Ser Phe Pro Met
 1 5 10 15
 Gln Lys Asn Val Ser Asp Gly Leu Pro Leu Pro Gln Arg Tyr Gly Ala
 20 25 30
 Ile Ala Thr Ile Val Ile Gly Ile Ser Met Ala Val Leu Asp Gly Ala
 35 40 45
 Ile Ala Asn Val Ala Leu Pro Thr Ile Ala Lys Asp Leu Asn Ala Ser
 50 55 60
 Pro Ala Ser Ser Ile Trp Ile Val Asn Ala Tyr Gln Ile Ala Ile Val
 65 70 75 80
 Ile Ser Leu Leu Ser Leu Ser Phe Leu Gly Asp Met Phe Gly Tyr Arg
 85 90 95
 Arg Val Tyr Gln Cys Gly Leu Val Val Phe Thr Leu Thr Ser Leu Phe
 100 105 110
 Cys Ala Leu Ser Asp Ser Leu His Thr Leu Thr Leu Ala Arg Ile Ala
 115 120 125
 Gln Gly Phe Gly Gly Ala Ala Leu Met Ser Val Asn Thr Ala Leu Ile
 130 135 140
 Arg Leu Ile Tyr Pro His Arg His Leu Gly Arg Gly Met Gly Ile Asn
 145 150 155 160
 Ser Phe Ile Val Ala Val Ser Ser Ala Ala Gly Pro Thr Ile Ala Ala
 165 170 175
 Ala Ile Leu Ser Val Ala Ser Trp Gln Trp Leu Phe Ala Ile Asn Val

```

      180      185      190
Pro Leu Gly Ile Val Ala Ile Phe Phe Ala Leu Arg Tyr Leu Pro Glu
      195      200      205
Asn Gly Pro Lys Asn Thr Met Pro Arg Phe Asp Leu Pro Ser Ala Val
      210      215      220
Met Asn Ala Leu Thr Phe Gly Leu Leu Ile Thr Ala Leu Ser Gly Phe
      225      230      235      240
Ala Gln Gly Gln Ser Leu Ser Leu Ile Ala Ala Glu Ile Val Ala Met
      245      250      255
Leu Ile Ile Gly Phe Phe Phe Val Arg Arg Gln Leu Ala Leu Pro Val
      260      265      270
Pro Leu Leu Pro Val Asp Leu Leu Arg Ile Pro Leu Phe Ser Leu Ser
      275      280      285
Ile Cys Thr Ser Ile Cys Ser Phe Cys Ala Gln Met Leu Ala Leu Val
      290      295      300
Ala Leu Pro Phe Phe Leu Gln Ser Val Thr Gly Arg Ser Val Val Ser
      305      310      315      320
Ser Pro Ala Val Glu Val Tyr Leu Pro
      325

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<210> 5740

<211> 237

<212> PRT

<213> Enterobacter cloacae

<400> 5740

```

Asn Asp Ile Ser Ser Gln Pro Gly Ser Lys Met Lys Ile Leu Ile Val
1      5      10      15
Glu Asp Glu Ile Lys Thr Gly Glu Tyr Leu Ser Lys Gly Leu Thr Glu
      20      25      30
Ala Gly Phe Val Val Asp His Ala Asp Asn Gly Leu Thr Gly Tyr His
      35      40      45
Leu Ala Met Thr Ala Glu Tyr Asp Leu Val Ile Leu Asp Ile Met Leu
      50      55      60
Pro Asp Val Asn Gly Trp Asp Ile Ile Arg Met Leu Arg Thr Ala Gly
      65      70      75      80
Lys Gly Met Pro Val Leu Leu Leu Thr Ala Leu Gly Thr Ile Glu His
      85      90      95
Arg Val Lys Gly Leu Glu Leu Gly Ala Asp Asp Tyr Leu Val Lys Pro
      100      105      110
Phe Ala Phe Ala Glu Leu Leu Ala Arg Val Arg Thr Leu Leu Arg Arg
      115      120      125
Gly Asn Thr Met Ile Thr Glu Ser Gln Phe Lys Val Ala Asp Leu Ser
      130      135      140
Ile Asp Leu Val Ser Arg Lys Val Ser Arg Ala Gly Asn Arg Ile Val
      145      150      155      160
Leu Thr Ser Lys Glu Phe Ser Leu Leu Glu Phe Phe Ile Arg His Gln
      165      170      175
Gly Glu Val Leu Pro Arg Ser Leu Ile Ala Ser Gln Val Trp Asp Met
      180      185      190
Asn Phe Asp Ser Asp Thr Asn Ala Ile Asp Val Ala Val Lys Arg Leu
      195      200      205
Arg Ala Lys Ile Asp Asn Asp Tyr Glu Thr Lys Leu Ile Gln Thr Val
      210      215      220
Arg Gly Val Gly Tyr Met Leu Glu Val Pro Asp Ala
      225      230      235

```

<210> 5741

<211> 114

<212> PRT

<213> Enterobacter cloacae

<400> 5741

```

Ser Arg Gln Ser Gly Ala Trp Ala Thr Cys Trp Arg Ser Arg Met His
1          5          10          15
Ser Lys Pro Ser Arg Arg Pro Phe Ser Leu Ala Leu Arg Leu Thr Phe
          20          25          30
Phe Ile Ser Leu Ser Thr Ile Leu Ala Phe Ile Ala Phe Thr Trp Phe
          35          40          45
Met Leu His Ser Val Glu Asn His Phe Ala Glu Gln Asp Val Ser Asp
          50          55          60
Leu Gln Gln Ile Ser Thr Thr Leu Asn Arg Ile Leu Gln Ser Pro Val
65          70          75          80
Asp Pro Asp Asp Lys Lys Ile Ser Lys Ile Lys Glu Ser Ile Ala Ser
          85          90          95
Tyr Arg Asn Val Ala Leu Leu Leu Leu Asn Pro Arg Gly Gly Ser Ala
          100          105          110
Leu

```

<210> 5742

<211> 201

<212> PRT

<213> Enterobacter cloacae

<400> 5742

```

Ile Ile Leu Gly Cys His Gly Glu Met Ile Ser Gly Lys Thr Ile Ile
1          5          10          15
Ser Val Ile His Tyr Glu Pro Cys Leu Cys Lys Pro Phe Ala Glu Ile
          20          25          30
Phe Thr Cys Phe Asn Phe Val Phe Asp Asp Gln Tyr Phe His Leu Ala
          35          40          45
Pro Arg Leu Ala Ala Asn Val Ile Leu Leu Arg Pro Arg Ser Leu Ser
          50          55          60
Thr Asp Tyr Ser Lys Asn Asp Asn Ile Val Ile Ile Leu Ser Pro Gly
65          70          75          80
Lys Gln Arg Ala Leu Gly Lys Val Pro Leu Ser Ile Leu Trp Thr Ser
          85          90          95
Phe Glu Pro Phe Thr Arg Ser Ala Trp Thr Arg Ser Val Met Phe Lys
          100          105          110
Leu Lys Leu Leu Ser Ile Ser Thr Ile Phe Ile Leu Ala Gly Cys Val
          115          120          125
Ser Leu Ala Pro Glu Tyr Gln Arg Pro Ala Ala Pro Val Pro Gln Gln
          130          135          140
Phe Ser Leu Ser His Asn Ser Leu Thr Pro Ala Val Asn Gly Tyr Gln
145          150          155          160
Asp Thr Gly Trp Arg Asn Phe Phe Val Asp Pro Gln Val Thr Arg Leu
          165          170          175
Ile Gly Glu Ala Leu Thr Asn Asn Arg Asp Leu Arg Met Ala Ala Leu
          180          185          190
Asn Val Glu Glu Ala Arg Ala Gln Phe
          195          200

```

<210> 5743

<211> 432

<212> PRT

<213> Enterobacter cloacae

<400> 5743

```

Phe Ser Phe Ile Val Arg Val Glu Ser Ala Val Ser Leu Ser Leu Trp
1          5          10          15
Gln Gln Cys Leu Ala Arg Leu Gln Asp Glu Leu Pro Ala Thr Glu Phe

```

```
<210> 5744
<211> 96
<212> PRT
<213> Enterobacter cloacae
```

Phe Asn Lys Arg Gly Ser Gly Ser Ser Val Val Lys Ile Gln Met Ala
1 5 10 15
Leu Thr Thr Leu Leu Arg Phe Glu His Glu Thr Val Met Pro Pro Glu

```
<210> 5745
<211> 154
<212> PRT
<213> Enterobacter cloacae
```

```
<210> 5746
<211> 75
<212> PRT
<213> Enterobacter cloacae
```

```
<210> 5747
<211> 122
<212> PRT
<213> Enterobacter cloacae
```

<400> 5747
His Gly Ser His Ala Ile Ser Leu Tyr Ser Gln His Ala Phe Asp Pro

```

1           5           10           15
Arg Gln Glu Thr Leu Ile Leu Thr Glu Thr Val Thr Thr Met Ser Lys
                20                25                30
Ala Ile Met Gln Gln Thr Tyr Asn Phe Glu Ala Leu His Asp Lys Gly
                35                40                45
Leu Ala Glu His Phe Leu Asn Ala Gly Lys His Leu Ser Gly Glu Val
                50                55                60
Glu Val Leu Gly Ser Ala Ile Arg Cys Ile Met Leu Thr Gly Asp Asn
65                70                75                80
Leu Ser Asn Lys Glu Ile Ile Leu Gln Leu Ile His Ala Leu Glu Ile
                85                90                95
Thr Glu Glu Pro Glu Ala Cys Asp Val Ile Arg Asn Thr Leu Glu Ile
                100                105                110
Val Val Gly Phe Thr Arg Asp Asp Ile
                115                120

```

<210> 5748

<211> 296

<212> PRT

<213> Enterobacter cloacae

<400> 5748

```

Val Val Gln Ile Lys Pro Phe Ile Pro His Arg Lys Val Gly Leu Asp
1           5           10           15
Lys Leu Tyr Leu Ile Arg Val Trp Phe Ser Asp Ala Arg Val Phe Arg
                20                25                30
Asp Glu Val Cys Ala Val Lys Asn Asn Pro Gln Gly Phe Ser Asp Ala
                35                40                45
Glu Ile Asp Ile Leu Gln Ala Leu His Lys Arg Glu Ile Phe Ala Ala
50                55                60
Tyr Gln Ile Ile Thr Asp Gly Asp Lys Lys Gly Val Gly Phe Glu Ile
65                70                75                80
Leu Leu Arg Trp His Lys Asn Gly Gln Val Leu Lys Ala Ala Gln Phe
                85                90                95
Leu Gly Gly Val Lys Asn Gly Glu Ile Trp Leu Lys Leu Thr Ala Leu
                100                105                110
Val Ile His Ala Ala Val Ser Gly Ile Asn Arg Tyr Asn Gly Lys Tyr
                115                120                125
Tyr Phe Ser Val Asn Ile Pro Pro Pro Leu Ala Thr Gly Asn Ala Leu
130                135                140
Pro Gly Met Ala Lys Lys Ala Val Glu Met Leu Leu Lys Pro Gln Trp
145                150                155                160
Ala Gly Lys Leu Val Phe Glu Leu Ala Glu Ala Ile Asp Val Thr Lys
                165                170                175
Asp Pro Asn Ile Pro Val Thr Leu Gln Arg Leu Arg Ala Glu Gly Cys
180                185                190
Arg Leu Phe Leu Asp Asp Cys Phe Ser Arg Asp Tyr Ala Met Leu Pro
195                200                205
Ile Arg Gln Ile Asn Val Asp Gly Leu Lys Leu Asp Arg Asp Ile Val
210                215                220
Glu His Phe Val Ala Asn Asp Asn Asp Tyr Ser Ile Ile Lys Ala Ile
225                230                235                240
Gln Ile Tyr Ser Asp Met Thr Gly Arg Glu Cys Val Ala Glu Gly Val
                245                250                255
Asp Ser Glu Glu Lys Phe Lys Lys Leu Val Ala Leu Gly Val Lys Arg
260                265                270
Phe Gln Gly Tyr Tyr Leu Ser Arg Ala Val Lys Glu Glu Glu Leu Asp
275                280                285
Arg Met Val Arg Leu Phe Ser
290                295

```

<210> 5749
 <211> 186
 <212> PRT
 <213> Enterobacter cloacae

<400> 5749
 Thr Asn Val Ile His Ala Thr His Ala Ala Gln Phe Ala Lys Ile Phe
 1 5 10 15
 Gly Val Lys Val Asp Asp Phe Ser Pro Ser Leu Ala Ala Glu Ile Ser
 20 25 30
 Ala Met Phe Glu Ala Ile Ala Asn Gly Arg Asn His Ser Ser Val Tyr
 35 40 45
 Glu Tyr Pro Leu Leu Thr Glu Val Gln Ala Gly Ser Phe Cys Pro Val
 50 55 60
 Asn Thr Tyr Thr Glu Arg Asp Ala Lys Glu Trp Val Ser Thr Thr Val
 65 70 75 80
 Lys Ala Ser Asp Ser Ala Phe Trp Leu Glu Val Ser Gly His Ser Met
 85 90 95
 Thr Ala Pro Pro Gly Val Lys Pro Ser Phe Pro Glu Gly Met Leu Ile
 100 105 110
 Leu Ile Asp Pro Glu Gln Asp Val Glu Pro Gly Asp Phe Cys Val Ala
 115 120 125
 Gly Ile Phe Asn Asp Ser Glu Val Thr Phe Lys Lys Tyr Val Arg Glu
 130 135 140
 Asp Gly Lys Pro Trp Leu Glu Pro Leu Asn Pro Ser Pro Arg Tyr Gln
 145 150 155 160
 Ala Ile Glu Cys Asn Glu Asn Cys Arg Ile Ile Gly Lys Val Val Lys
 165 170 175
 Ala Gln Trp Pro Glu Asn Ile Phe Glu
 180 185

<210> 5750
 <211> 156
 <212> PRT
 <213> Enterobacter cloacae

<220>
 <221> UNSURE
 <222> (133)

<220>
 <221> UNSURE
 <222> (135)

<220>
 <221> UNSURE
 <222> (156)

<400> 5750
 Lys Ser Ser Gly Arg Arg Trp Leu Phe Gly Cys Cys Arg Ala Gly Ala
 1 5 10 15
 Val Arg Leu Phe Leu Cys Arg Cys Val Ala Gly Phe Val Leu Leu Gly
 20 25 30
 Gly Pro Phe Pro Ala Ala Val Pro Arg Leu Leu Leu Arg Val Leu Leu
 35 40 45
 Phe Arg Arg Cys Pro Arg Trp Ser Arg Leu Arg Leu Ala Cys Ala Gly
 50 55 60
 Phe Arg Val Ala Val Phe Val Arg Arg Ala Ser Phe Gly Phe Ala Phe
 65 70 75 80
 Cys Ser Cys Pro Ser Val Leu Ser Arg Phe Arg Trp Cys Val Leu Trp
 85 90 95

Ala Leu Arg Arg Leu Lys Arg Gly Met Glu Gln Ala Gln Pro Leu Ser
 100 105 110
 Thr Phe Leu Phe Asn Ser Leu Met Pro Gln Val Asp Leu Ser Thr Pro
 115 120 125
 Val Arg Arg Ala Xaa Leu Xaa Thr Leu Ala Leu Pro Leu Ile Ser His
 130 135 140
 Val Pro Gly Glu Thr Leu Arg Ile Tyr Leu Arg Xaa
 145 150 155

<210> 5751

<211> 110

<212> PRT

<213> Enterobacter cloacae

<400> 5751

Phe Phe Leu Ser Ala Leu Gly Gly Glu Asn Leu Arg Val Val Asp Gly
 1 5 10 15
 Phe Leu Asp Val Val Ala Leu Ala Leu Phe Val Phe Phe Phe Ala Val
 20 25 30
 Ala Ser Leu Gly Ser Ser Ser Ser Ala Val Leu Phe Leu Leu Phe
 35 40 45
 Arg Val Ser Phe Phe Val Phe Cys Cys Phe Asp Gly Val Arg Ala Gly
 50 55 60
 Leu Val Ser Ala Trp Arg Ala Leu Val Ser Ala Leu Pro Phe Leu Ser
 65 70 75 80
 Val Gly Arg Pro Leu Val Ser Leu Phe Val Pro Ala Arg Arg Cys Cys
 85 90 95
 Pro Gly Phe Ala Gly Ala Phe Cys Gly Leu Cys Gly Val
 100 105 110

<210> 5752

<211> 65

<212> PRT

<213> Enterobacter cloacae

<400> 5752

Gly His Arg Asn Ser Gly His Trp Cys Gly Thr Ser Ser Arg Ser Leu
 1 5 10 15
 Leu Gln Ile Pro Gly Cys Leu Ser Met Phe Ala Leu Val Asp Val Asn
 20 25 30
 Ser Phe Tyr Ala Ser Cys Glu Thr Val Phe Arg Pro Asp Leu Arg Gly
 35 40 45
 Lys Pro Val Val Val Leu Ser Asn Asn Asp Leu Ser Gly Glu Lys Cys
 50 55 60

65

<210> 5753

<211> 86

<212> PRT

<213> Enterobacter cloacae

<400> 5753

Ser Gly Asp Lys Met Tyr Ile Ser Glu Ile Gln Ile Glu Asn Phe Arg
 1 5 10 15
 Leu Phe Asp Ser Ala Glu Lys Ala Phe Val Leu Ser Leu Asn Pro Gly
 20 25 30
 Leu Thr Ala Leu Val Gly Glu Asn Asp Ala Gly Lys Thr Ala Val Ile
 35 40 45
 Asp Ala Leu Arg Leu Val Leu Gly Thr Arg Asp Gln Glu Met Leu Arg
 50 55 60

Ile Asp Met Leu Ile Met His His Trp Gly Glu Ala Lys Ser Arg Thr
 65 70 75 80
 Ser Pro Phe Arg Ser
 85

<210> 5754

<211> 275

<212> PRT

<213> Enterobacter cloacae

<400> 5754

Gly Tyr Asn Met Ala Phe Lys Phe Lys Thr Phe Ala Ala Val Gly Ala
 1 5 10 15
 Leu Ile Gly Ser Leu Ala Leu Val Gly Cys Gly Gln Asp Glu Lys Asp
 20 25 30
 Pro Asn His Ile Lys Val Gly Val Ile Val Gly Ala Glu Gln Gln Val
 35 40 45
 Ala Glu Ala Ala Gln Lys Ile Ala Lys Glu Lys Tyr Gly Leu Asp Val
 50 55 60
 Glu Leu Val Thr Phe Asn Asp Tyr Val Leu Pro Asn Glu Ala Leu Ser
 65 70 75 80
 Lys Gly Asp Ile Asp Ala Asn Ala Phe Gln His Lys Pro Tyr Leu Asp
 85 90 95
 Gln Gln Ile Lys Asp Arg Gly Tyr Lys Leu Val Ala Val Gly Asn Thr
 100 105 110
 Phe Val Tyr Pro Ile Ala Gly Tyr Ser Lys Lys Ile Lys Ser Leu Asp
 115 120 125
 Glu Leu Gln Pro Gly Ser Gln Val Ala Val Pro Asn Asp Pro Thr Asn
 130 135 140
 Leu Gly Arg Ser Leu Leu Leu Gln Lys Val Gly Leu Ile Lys Leu
 145 150 155 160
 Lys Glu Gly Val Gly Leu Leu Pro Thr Val Leu Asp Val Thr Glu Asn
 165 170 175
 Pro Lys Asn Leu Lys Ile Val Glu Leu Glu Ala Pro Gln Leu Pro Arg
 180 185 190
 Ser Leu Asp Asp Ala Gln Ile Ala Leu Ala Val Ile Asn Thr Thr Tyr
 195 200 205
 Ala Ser Gln Ile Gly Leu Thr Pro Ala Lys Asp Gly Ile Phe Val Glu
 210 215 220
 Asp Lys Asp Ser Pro Tyr Val Asn Leu Ile Val Thr Arg Glu Asp Asn
 225 230 235 240
 Lys Asp Ala Glu Asn Val Lys Lys Phe Ile Gln Ala Tyr Gln Ser Glu
 245 250 255
 Glu Val Tyr Gln Glu Ala Asn Lys Val Phe Asn Gly Gly Ala Val Lys
 260 265 270
 Gly Trp
 275

<210> 5755

<211> 310

<212> PRT

<213> Enterobacter cloacae

<400> 5755

Asn Ser Arg Arg Gly Ser Ser Ser Pro Val Val Lys Thr Pro Val Arg
 1 5 10 15
 Gly Val Ala Ser Leu Lys Ser Asn Pro Asp Gly Ala Ser Cys Leu Gly
 20 25 30
 Pro Met Ala Gly Leu Glu Lys Gln Arg Glu Gln Tyr Ser His Ala Val
 35 40 45
 Gln Ala Leu Ser Asp Pro Asp Arg Thr Arg Leu Val Leu Val Ala Arg

```

      50      55      60
Leu Gln Lys Ser Thr Leu Gln Glu Val Ala Arg Thr His Asp Glu Leu
65      70      75      80
Ala Ala Ile Gly Leu Lys Asn Gln Tyr Leu Val Ile Asn Gly Val Leu
      85      90      95
Pro Glu Thr Glu Ala Val Asn Asp Thr Leu Ala Ala Ala Ile Trp Gly
      100      105      110
Arg Glu Gln Glu Ala Leu Ala Ser Leu Pro Ala Gly Leu Asp Ala Leu
      115      120      125
Pro Thr Asp Thr Leu Phe Leu Gln Pro Val Asn Met Val Gly Val Ser
      130      135      140
Ala Leu Arg Gly Leu Leu Thr Ser Gln Pro Glu Thr Ala Ser Phe Ala
145      150      155      160
Glu Val Ser Ala Leu Gln Lys Pro Ala Ile Ser Ser Leu Ser Ala Leu
      165      170      175
Val Asp Glu Ile Ala Leu Asn Glu His Gly Leu Ile Met Leu Met Gly
      180      185      190
Lys Gly Gly Val Gly Lys Thr Thr Met Ala Ala Ala Ile Ala Val Arg
      195      200      205
Leu Ala Glu Met Gly Phe Asp Val His Leu Thr Thr Ser Asp Pro Ala
      210      215      220
Ala His Leu Ser Thr Thr Leu Asn Gly Ser Leu Asn Asn Leu Gln Val
225      230      235      240
Ser Arg Ile Asp Pro His Asp Glu Thr Glu Arg Tyr Arg Gln His Val
      245      250      255
Leu Glu Thr Lys Gly Arg Asp Leu Asp Glu Ala Gly Lys His Leu Leu
      260      265      270
Glu Glu Asp Leu Arg Ser Pro Cys Thr Glu Glu Ile Ala Val Phe Gln
      275      280      285
Ala Phe Ser Arg Val Ile Arg Glu Ala Gly Lys Arg Phe Val Val Met
      290      295      300
His Thr Ser Ser Pro Ser
305      310

```

<210> 5756

<211> 61

<212> PRT

<213> Enterobacter cloacae

<400> 5756

```

Asn Arg Asn Thr Thr Ser Ala Glu Lys Val Glu Asn Val Val Lys Pro
1      5      10      15
Pro Gln Lys Pro Val Val Ile Arg Thr Phe His Ile Gly Ser Met Leu
      20      25      30
Val Met Arg Leu Asn Gln Ala Ser Pro Ile Pro Ile Ile Asn Ala Pro
      35      40      45
Ile Arg Phe Ala Ala Ser Val Pro Ile Gly Met Ala
      50      55      60

```

<210> 5757

<211> 315

<212> PRT

<213> Enterobacter cloacae

<400> 5757

```

Cys Arg Gly Leu Asn Arg Met Leu Lys Ser His Arg Ala Thr Leu Pro
1      5      10      15
Val Pro Pro Pro Ile Lys Thr Ala Ile Ser Ser Cys Asn Thr Val Asn
      20      25      30
Thr Cys Tyr Leu Leu Cys Lys Cys Val Glu Cys Asn Ala Val Phe Asp
      35      40      45

```

```

Arg Glu Thr Ile Met Tyr Val Ala Val Gly Gln Phe Ala Val Thr Pro
 50                      55                      60
Asp Trp Asn Glu Asn Ala Glu Lys Cys Val Ser Leu Met His Ala Ala
 65                      70                      75                      80
Lys Gln Lys Gly Ala Ser Leu Leu Val Leu Pro Glu Ala Leu Leu Ala
                      85                      90                      95
Arg Asp Asp Gly Asp Pro Asp Leu Ser Val Lys Ser Ala Gln Thr Leu
                      100                      105                      110
Glu Gly Ala Phe Leu Lys Arg Leu Leu Ala Glu Ser Val Gly Asn Thr
                      115                      120                      125
Leu Thr Thr Ile Leu Thr Val His Ile Pro Ser Ser Pro Gly Arg Ala
                      130                      135                      140
Val Asn Thr Leu Val Ala Ile Arg Glu Gly Ala Ile Val Ala Ser Tyr
145                      150                      155                      160
Ala Lys Leu His Leu Tyr Asp Ala Phe Ser Val Gln Glu Ser Arg Leu
                      165                      170                      175
Val Asp Pro Gly Ser Val Ile Pro Pro Leu Ile Glu Val Glu Gly Phe
                      180                      185                      190
Lys Val Gly Leu Met Thr Cys Tyr Asp Ile Arg Phe Pro Glu Leu Ala
                      195                      200                      205
Leu Asn Leu Ala Leu Gln Gly Ala Glu Val Leu Val Leu Pro Ala Ala
                      210                      215                      220
Trp Val Lys Gly Pro Leu Lys Glu His His Trp Ala Thr Leu Leu Ala
225                      230                      235                      240
Ala Arg Ala Leu Asp Thr Thr Cys Tyr Val Val Ala Ala Gly Glu Cys
                      245                      250                      255
Gly Asn Lys Asn Ile Gly Gln Ser Arg Val Val Asp Pro Leu Gly Val
                      260                      265                      270
Thr Val Val Ala Ala Ala Glu Thr Pro Ala Leu Leu Leu Thr Glu Ile
                      275                      280                      285
Ile Ser Ala Arg Ile Ala Leu Ala Arg Gln Gln Leu Pro Val Leu Arg
                      290                      295                      300
Asn Arg Arg Phe Ala Pro Pro Gln Leu Met
305                      310                      315

```

<210> 5758

<211> 132

<212> PRT

<213> Enterobacter cloacae

<400> 5758

```

Gln Val Leu Thr Val Leu Gln Leu Leu Ile Ala Val Phe Ile Gly Gly
 1                      5                      10                      15
Gly Thr Gly Ser Val Ala Arg Trp Leu Leu Ser Met Arg Phe Asn Pro
                      20                      25                      30
Leu His Gln Ala Ile Pro Met Gly Thr Leu Ala Ala Asn Leu Ile Gly
                      35                      40                      45
Ala Phe Ile Ile Gly Met Gly Leu Ala Trp Phe Asn Arg Met Thr Asn
                      50                      55                      60
Ile Asp Pro Met Trp Lys Val Leu Ile Thr Thr Gly Phe Cys Gly Gly
65                      70                      75                      80
Leu Thr Thr Phe Ser Thr Phe Ser Ala Glu Val Val Phe Leu Phe Gln
                      85                      90                      95
Glu Gly Arg Met Gly Trp Ala Leu Thr Asn Ile Ala Val Asn Met Leu
                      100                      105                      110
Gly Ser Phe Ala Met Thr Ala Ile Ala Phe Trp Leu Phe Ser Ser Ala
                      115                      120                      125
Ser Gly His
                      130

```

<210> 5759

<211> 152

<212> PRT

<213> Enterobacter cloacae

<400> 5759

```

Leu His Met Asn Ile Leu Ile Thr Thr Thr Ala Phe Thr Ala Leu Phe
1          5          10          15
Cys Gly Ala Ala Phe Ala Gln Ser Ser Asp Ile Ala His Glu Ala His
          20          25          30
Arg Phe Val Asn Asn Ala Ser Ala Val Ser His Val Asn Ser Ser Thr
          35          40          45
His Glu Asn Leu Pro Asp Arg Val Asn Lys Asn Asn Thr Pro Ser Phe
          50          55          60
Ser Glu Met Asn Glu His Glu Arg Ala Ile Val Ala His Ser Phe Met
          65          70          75          80
Asn Asn Ser Ala Ser Tyr Ala His Gln Lys Met Ile Glu Glu His Lys
          85          90          95
Lys Met Leu Ser Gly Ser Asp Ala Asn Ser Lys Thr Ser Ser Ser Ser
          100          105          110
Phe Asn Glu Leu Asn Ala Gly Glu Lys Ala Ala Leu Val His Glu Gln
          115          120          125
Val Asn Asn Ala Gly Ala Glu Ala His Gln Thr Gln Ala Arg Lys Leu
          130          135          140
Arg Gly Leu Tyr Ser Thr Arg
          145          150

```

<210> 5760

<211> 279

<212> PRT

<213> Enterobacter cloacae

<400> 5760

```

Thr Pro Pro Cys Thr Leu Val Leu Pro Ala Gly Trp Gly Arg Pro Ile
1          5          10          15
Ala Gly Ala Gly Gly Arg Met Gly Arg Gln Leu Ile Gln Ala Ala Leu
          20          25          30
Gln Met Asp Gly Val Ala Leu Gly Ala Ala Leu Glu Arg Glu Gly Ser
          35          40          45
Ser Leu Leu Gly Ala Asp Ala Gly Glu Leu Ala Gly Ala Gly Lys Thr
          50          55          60
Gly Val Thr Val Gln Ser Ser Leu Glu Ala Val Lys Glu Asp Phe Asp
          65          70          75          80
Val Phe Ile Asp Phe Thr Arg Pro Glu Gly Thr Leu Ala His Leu Ala
          85          90          95
Phe Cys Arg Gln His Gly Lys Gly Met Val Ile Gly Thr Thr Gly Phe
          100          105          110
Asp Asp Ala Gly Lys Gln Ala Ile Gln Asp Ala Ala Thr Asp Ile Ala
          115          120          125
Ile Val Phe Ala Ala Asn Phe Ser Val Gly Val Asn Val Met Leu Lys
          130          135          140
Leu Leu Glu Lys Ala Ala Lys Val Met Gly Asn Tyr Thr Asp Ile Glu
          145          150          155          160
Ile Val Glu Ala His His Arg Tyr Lys Val Asp Ala Pro Ser Gly Thr
          165          170          175
Ala Leu Ala Met Gly Glu Ala Ile Ala His Ala Leu Asp Arg Asp Leu
          180          185          190
Lys Glu Cys Ala Val Tyr Thr Arg Glu Gly His Thr Gly Glu Arg Val
          195          200          205
Pro Gly Thr Ile Gly Phe Ala Thr Val Arg Ala Gly Asp Ile Val Gly
          210          215          220
Glu His Thr Ala Met Phe Ala Asp Ile Gly Glu Arg Val Glu Ile Thr

```

225 230 235 240
 His Lys Ala Ser Ser Arg Met Thr Phe Ala Asn Gly Ala Val Arg Ala
 245 250 255
 Ala Leu Trp Leu Asn Ala Lys Glu Lys Gly Leu Phe Asp Met Arg Asp
 260 265 270
 Val Leu Asp Leu Asn Asn Leu
 275

<210> 5761

<211> 130

<212> PRT

<213> Enterobacter cloacae

<400> 5761

Tyr Ala Asn Lys Val Ser Glu Tyr Ser Leu Glu Gly Val Leu Ile Lys
 1 5 10 15
 Ser Ala Leu Leu Val Leu Glu Asp Gly Thr Gln Phe Ile Gly Arg Ala
 20 25 30
 Ile Gly Ala Thr Gly Ser Ala Val Gly Glu Val Val Phe Asn Thr Ser
 35 40 45
 Met Thr Gly Tyr Gln Glu Ile Leu Thr Asp Pro Ser Tyr Ser Arg Gln
 50 55 60
 Ile Val Thr Leu Thr Tyr Pro His Ile Gly Asn Val Gly Thr Asn Ala
 65 70 75 80
 Ala Asp Glu Glu Ser Ser Gln Val His Ala Gln Gly Leu Val Ile Arg
 85 90 95
 Asp Leu Pro Leu Ile Ala Ser Asn Phe Arg Asn Thr Glu Asp Leu Ser
 100 105 110
 Ser Tyr Leu Lys Arg His Asn Ile Val Ala Ile Ala Asp Ile Asp Thr
 115 120 125
 Arg Lys
 130

<210> 5762

<211> 423

<212> PRT

<213> Enterobacter cloacae

<220>

<221> UNSURE

<222> (417)

<400> 5762

Cys Met Glu Phe Ser Val Lys Ser Gly Ser Pro Glu Lys Gln Arg Ser
 1 5 10 15
 Ala Cys Ile Val Val Gly Val Phe Glu Pro Arg Arg Leu Ser Pro Ile
 20 25 30
 Ala Glu Gln Leu Asp Lys Ile Ser Asp Gly Tyr Ile Ser Ala Leu Leu
 35 40 45
 Arg Arg Gly Glu Leu Glu Gly Lys Pro Gly Gln Thr Leu Leu Leu His
 50 55 60
 His Val Pro Asn Val Leu Ser Glu Arg Ile Leu Leu Ile Gly Cys Gly
 65 70 75 80
 Lys Glu Arg Glu Leu Asp Glu Arg Gln Tyr Lys Gln Val Ile Gln Lys
 85 90 95
 Thr Ile Asn Thr Leu Asn Asp Thr Gly Ser Met Glu Ala Val Cys Phe
 100 105 110
 Leu Thr Glu Leu His Val Lys Gly Arg Asn Thr Tyr Trp Lys Val Arg
 115 120 125
 Gln Ala Val Glu Thr Ala Lys Glu Ser Leu Tyr Ser Phe Asp Gln Leu
 130 135 140

Lys Thr Thr Lys Ser Glu Pro Arg Arg Pro Leu Arg Lys Met Val Phe
 145 150 155 160
 Asn Val Pro Thr Arg Glu Leu Thr Ser Gly Glu Arg Ala Ile Gln
 165 170 175
 His Gly Leu Ala Ile Ala Ala Gly Ile Lys Ala Ala Lys Asp Leu Gly
 180 185 190
 Asn Met Pro Pro Asn Ile Cys Asn Ala Ala Tyr Leu Ala Ser Gln Ala
 195 200 205
 Arg Gln Leu Ala Asp Ala Tyr Ser Lys Asn Val Ile Thr Arg Val Ile
 210 215 220
 Gly Glu Gln Gln Met Lys Glu Leu Gly Met His Ser Tyr Leu Ala Val
 225 230 235 240
 Gly Asn Gly Ser Gln Asn Glu Ser Leu Met Ser Val Ile Glu Tyr Lys
 245 250 255
 Gly Asn Pro Ser Glu Asp Ala Arg Pro Ile Val Leu Val Gly Lys Gly
 260 265 270
 Leu Thr Phe Asp Ser Gly Gly Ile Ser Ile Lys Pro Ser Glu Gly Met
 275 280 285
 Asp Glu Met Lys Tyr Asp Met Cys Gly Ala Ala Val Tyr Gly Val
 290 295 300
 Met Arg Met Val Ala Glu Leu Gln Leu Pro Ile Asn Val Ile Gly Val
 305 310 315 320
 Leu Ala Gly Cys Glu Asn Met Pro Gly Gly Arg Ala Tyr Arg Pro Gly
 325 330 335
 Asp Val Leu Thr Thr Met Ser Gly Gln Thr Val Glu Val Leu Asn Thr
 340 345 350
 Asp Ala Glu Gly Arg Leu Val Leu Cys Asp Val Leu Thr Tyr Val Glu
 355 360 365
 Arg Phe Glu Pro Glu Ala Val Ile Asp Val Ala Thr Leu Thr Gly Ala
 370 375 380
 Cys Val Ile Ala Leu Gly His His Ile Thr Gly Leu Met Ser Asn His
 385 390 395 400
 Asn Pro Val Pro His Gly Pro Ile Gly Ala Phe Val Thr Thr Ala Val
 405 410 415
 Xaa Gly Pro Gln Tyr Trp Val
 420

<210> 5763

<211> 701

<212> PRT

<213> Enterobacter cloacae

<220>

<221> UNSURE

<222> (86)

<400> 5763

Pro Pro Gly Ala Ala Phe Ala Ala Ser Thr Thr Glu Asp Thr Val Val
 1 5 10 15
 Val Asp Gly Gly Phe Asp Asn Thr Gln Asp Leu Ser Ala Ser Gln Asp
 20 25 30
 Gln Asp Tyr Ser Val Lys Thr Thr Thr Thr Gly Thr Lys Leu Leu Leu
 35 40 45
 Val Pro Arg Asp Ile Pro Gln Ser Val Ser Val Ile Ser Gln Gln Arg
 50 55 60
 Met Ala Asp Gln Asn Leu Gln Ser Ile Gly Gln Val Leu Thr Asn Thr
 65 70 75 80
 Thr Gly Ile Thr Ala Xaa Val Gln Asp Ser Asp Arg Thr Val Phe Tyr
 85 90 95
 Ser Arg Gly Phe Phe Val Ser Asn Tyr Ala Tyr Asp Asp Leu Pro Thr
 100 105 110

Ser Ile Ser Glu Val Trp Asn Phe Gly Asp Thr Ala Ala Asp Thr Ala
 115 120 125
 Ile Tyr Asp Arg Ile Glu Val Val Arg Gly Ala Thr Gly Leu Met Ser
 130 135 140
 Gly Thr Gly Asn Pro Ala Ala Tyr Val Asn Met Val Arg Lys His Ala
 145 150 155 160
 Asp Ser Pro Glu Phe Lys Gly Asn Val Ser Ala Ser Tyr Gly Ser Trp
 165 170 175
 Asp Lys Gln Arg Tyr Val Leu Asp Leu Gln Ala Pro Leu Val Glu Ser
 180 185 190
 Gly Lys Val Arg Gly Arg Leu Ile Thr Gly Tyr Gln Asp Asn Asp Ser
 195 200 205
 Phe Val Asp Asn Tyr His Tyr Arg Lys Lys Phe Leu Tyr Gly Val Met
 210 215 220
 Asp Ala Asp Val Thr Asp Ser Thr Thr Leu Ser Val Gly Tyr Glu Tyr
 225 230 235 240
 Gln Glu Ser His Thr Ala Asp Pro Thr Trp Gly Gly Leu Pro Thr Trp
 245 250 255
 Tyr Ser Asp Gly Ser Lys Asn His Tyr Asn Arg Ser Gln Thr Val Ala
 260 265 270
 Pro Asp Trp Ala Tyr Ser Asp Lys Asp Ser Thr Arg Ile Phe Ala Asn
 275 280 285
 Leu Thr Gln Arg Phe Asp Asn Gly Trp Glu Ala His Ile Asn Gly Met
 290 295 300
 His Ala Glu Thr Asn Phe Asp Ser Lys Leu Met Tyr Met Ser Gly Tyr
 305 310 315 320
 Pro Asp Lys Glu Thr Gly Ala Gly Leu Val Gly Tyr Gly Gly Trp Asn
 325 330 335
 Arg Gly Glu Arg Lys Gln Asp Ala Val Asp Ala Phe Leu Arg Gly Gly
 340 345 350
 Phe Asp Leu Phe Gly Arg Gln His Glu Met Met Phe Gly Gly Ser Phe
 355 360 365
 Ser Arg Gln Arg Asn His Tyr Asp Asn Ser Met Pro Asp Ala Val Tyr
 370 375 380
 Gly Met Val Asp Val Gly Asn Phe Lys Asn Trp Asn Gly Asn Ile Ala
 385 390 395 400
 Asp Pro Gln Trp Thr Pro Trp Lys Leu Tyr Ser Lys Asp Asp Ile Arg
 405 410 415
 Gln Ser Ser Ala Tyr Ser Ser Ala Arg Phe Ser Leu Ala Asp Pro Leu
 420 425 430
 His Leu Ile Leu Gly Ala Arg Tyr Thr Gln Tyr Asn Ile Arg Tyr Asn
 435 440 445
 Pro Ala Gly Ser Pro Asn Thr Arg Leu Glu Ser Thr Lys Asp Asp Val
 450 455 460
 Thr Pro Tyr Ala Gly Leu Val Tyr Asp Ile Asn Glu Asp Trp Ser Thr
 465 470 475 480
 Tyr Val Ser Tyr Thr Ser Ile Phe Gln Pro Gln Asp Asn Arg Asp Ala
 485 490 495
 Ser Gly Arg Tyr Leu Asp Pro Thr Thr Gly Lys Ser Tyr Gln Ala Gly
 500 505 510
 Val Lys Ala Asp Trp Phe Asn Thr Arg Leu Asn Asn Ser Leu Ala Ile
 515 520 525
 Phe Arg Ile Glu His Asp Asn Val Ala Ser Asn Thr Tyr Thr Tyr Leu
 530 535 540
 Pro Ser Gly Glu Ser Ile Tyr Glu Ser Leu Asp Gly Val Val Ser Lys
 545 550 555 560
 Gly Val Glu Phe Glu Leu Asn Gly Ala Leu Thr Asp Asn Trp Gln Leu
 565 570 575
 Thr Phe Gly Ala Thr Arg Tyr Ile Ala Glu Asp Lys Asn Gly Asn Ala
 580 585 590
 Val Ser Ser Asp Gln Pro Arg Thr Thr Met Lys Leu Phe Thr Arg Tyr


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<210> 5764
<211> 164
<212> PRT
<213> Enterobacter cloacae
```

[illegible]

```
<210> 5765
<211> 242
<212> PRT
<213> Enterobacter cloacae
```

<220>
<221>UNSURE
<222>(183)

<220>
<221> UNSURE
<222> (217)

<400> 5765

Ile Ser Pro Pro Val Asn Thr Leu Ala Leu Gly Tyr Ala Ala Phe Arg
 1 5 10 15
 Phe Gly Arg Arg Glu Ala Asp Ser Lys Arg Thr Phe Gly Tyr Leu Arg
 20 25 30
 Phe Glu Val Ile Ala Gly Phe Phe Asn Ala Leu Thr Leu Phe Ala Ile
 35 40 45
 Val Ala Trp Ile Ala Tyr Glu Ala Trp Glu Arg Leu Gln Ala Pro Pro
 50 55 60
 Ala Ile Leu Ala Gly Pro Met Leu Ile Val Ala Ile Val Gly Leu Leu
 65 70 75 80
 Val Asn Val Leu Val Leu Trp Ile Met Thr Arg Gly Glu Thr Asp His
 85 90 95
 Val Asn Val Lys Gly Ala Ile Leu His Val Met Gly Asp Leu Leu Gly
 100 105 110
 Ser Val Gly Ala Ile Val Ala Ala Ile Val Ile Tyr Tyr Thr Gly Trp
 115 120 125
 Thr Pro Ile Asp Pro Ile Leu Ser Val Leu Val Ala Ala Leu Val Leu
 130 135 140
 Arg Ser Ala Trp Lys Leu Leu Ala Lys Ser Leu His Ile Leu Leu Glu
 145 150 155 160
 Gly Ala Pro Glu Asn Ala Ser Pro Asp Lys Val Lys Gln Arg Leu Ile
 165 170 175
 Asn Ser Val Gln Gly Leu Xaa Ala Val Ser His Ile His Val Trp Gln
 180 185 190
 Ile Thr Ser Gly Arg Ile Met Ala Thr Leu Glu Val Arg Ala Lys Glu
 195 200 205
 Asp Val Asp Val Lys Asp Val Val Xaa Leu Val Lys Gln Glu Leu Tyr
 210 215 220
 Glu His Phe Lys Asn Arg Thr Arg Asn Cys Gly His Arg Leu Glu Leu
 225 230 235 240
 Arg

<210> 5766

<211> 130

<212> PRT

<213> Enterobacter cloacae

<400> 5766

Cys Thr Thr Asn Ser Gly Gly Arg Thr Ile Met Ser Asn Thr Ser Asp
 1 5 10 15
 Cys Gly Asn Val Arg Asn Cys Ser Ala Thr Asp Tyr Gly Thr Glu Pro
 20 25 30
 Asp Leu Ser Met Leu Ser Gln Asn Glu Ile Gly Leu Leu Ser Glu Ile
 35 40 45
 Phe His Leu Leu Gly Asp Gln Ser Arg Leu Arg Ile Leu Leu Tyr Cys
 50 55 60
 Met Arg Gly Ser Val Ser Val Gly Asp Ile Ala Glu Ser Leu Gln Leu
 65 70 75 80
 Ser Gln Ser Leu Val Ser His His Leu Arg Leu Leu Arg Gly Ala Arg
 85 90 95
 Leu Val Arg Gly Glu Arg Lys Gly Lys Tyr Ile Phe Tyr Ser Ile Met
 100 105 110
 Asp Gln His Val Ser His Val Leu Gln Asp Met Ala Phe His Ile Ala
 115 120 125
 Glu
 130

<210> 5767

<211> 95

<212> PRT

<213> Enterobacter cloacae

<400> 5767

```

Lys Thr Val Asn Val Asp Trp Phe Ile Ala Glu Arg Ser Gly Lys Val
1          5          10          15
Arg Ile Leu Lys Glu His Pro Arg Lys Asn Lys Ala Ala Ile Ile Leu
          20          25          30
Glu Tyr Leu Lys Ala Ser Ile Arg Ala Lys Val Glu His Pro Phe Arg
          35          40          45
Val Ile Ile Arg Gln Phe Gly Phe Ile Lys Ala Arg Tyr Lys Gly Leu
          50          55          60
Met Lys Asn Asp Ser Gln Leu Ala Met Leu Phe Thr Leu Ala Asn Leu
65          70          75          80
Phe Lys Val Asp Gln Met Ile Arg Arg Gln Thr Lys Ser Ala
          85          90          95

```

<210> 5768

<211> 145

<212> PRT

<213> Enterobacter cloacae

<400> 5768

```

Pro Ala Thr Ile Val Ile Val Ser Leu Pro Asp Thr Tyr Ser Ser Val
1          5          10          15
Arg Glu Ala Ile Phe Val Pro Phe Gln Arg Thr Gly Val Asn Met Gln
          20          25          30
Lys Ile Val Ile Val Ala Asn Gly Ala Ala Tyr Gly Ser Glu Ser Ile
          35          40          45
Arg Asn Ser Leu Arg Gln Ala Ile Ala Gln Arg Glu Lys Glu Arg Glu
          50          55          60
Gln Glu Gln Arg His Lys Lys Lys Thr Asp Ala Val Thr Ala Gly Gly
65          70          75          80
Cys Arg Arg Gly Lys Asn Pro Gln Arg Ala Thr Thr Ile Asn Lys Ser
          85          90          95
Arg Arg Ser Arg Pro Arg Lys Thr Asn Arg Thr Asn Arg Ala Lys Pro
          100          105          110
Glu Pro Thr Gly Glu Ala Lys Pro Gly Ser Arg Arg Lys Lys Glu Arg
          115          120          125
Lys Lys Glu Arg Arg Arg Ser Arg Gln Lys Gly Arg Asn Pro Ala Gly
          130          135          140

```

145

<210> 5769

<211> 170

<212> PRT

<213> Enterobacter cloacae

<400> 5769

```

Met Leu Gly Lys Gln Val Ala Gln Cys Val Pro Ala Gly Ser Thr Leu
1          5          10          15
Phe Leu Asp Ala Gly Ser Thr Leu Leu Ala Val Ala Ser Phe Leu Gln
          20          25          30
Gly Pro Leu Thr Ile Ile Thr Pro Ser Leu Asp Ile Ala Gln Gln Val
          35          40          45
Ser Asp Arg Glu Gly Ile Asp Leu Ile Leu Leu Gly Gly Lys Trp Asp
          50          55          60
Gln Lys Gln Arg Leu Phe Ala Gly Ser Ala Thr Leu Ser Leu Leu Ser
65          70          75          80
Arg Tyr Arg Ala Asp Ile Ala Ile Leu Gly Ala Cys Ala Ile His Ala
          85          90          95

```

Glu Leu Gly Leu Ser Ala Ser Gln Glu Ala Asp Ala Glu Val Lys Arg
 100 105 110
 Ala Met Leu Ala Ala Ser Gln Ala His Trp Val Val Ala Asp His Leu
 115 120 125
 Lys Leu Asn Gln Cys Glu Pro Tyr Leu Val Ser Gly Leu Ser Glu Ile
 130 135 140
 His Gln Leu Phe Leu Asp Arg Pro Trp Ala Glu Leu Gly Asp His Ser
 145 150 155 160
 Ala Val Gln Val Thr Val Cys Ala His
 165 170

<210> 5770

<211> 381

<212> PRT

<213> Enterobacter cloacae

<400> 5770

Ile Val Pro Gly Gln Ser Ser Gly Thr Ile Ala Pro Cys Arg Leu Pro
 1 5 10 15
 Phe Ala His Ile Asn Val Glu Lys Val Met Asn Lys Val Lys Thr Met
 20 25 30
 Asn Ile Ala Leu Ile Gly Tyr Gly Phe Val Gly Lys Thr Phe His Ala
 35 40 45
 Pro Leu Ile Gln Ser Val Asp Gly Leu Lys Leu Ala Val Ile Ser Ser
 50 55 60
 Arg Asp Glu Glu Lys Val Lys Arg Asp Leu Pro Asp Val Leu Val Val
 65 70 75 80
 Ala Thr Pro Glu Glu Ala Ile Gln His Pro Asp Ile Asp Leu Val Val
 85 90 95
 Ile Ala Ser Pro Asn Ala Thr His Ala Pro Leu Ala Thr Leu Ala Leu
 100 105 110
 Asn Ala Gly Lys His Val Val Val Asp Lys Pro Phe Thr Leu Asp Met
 115 120 125
 Gln Glu Ala Arg Asp Leu Ile Ala Leu Ala Glu Glu Lys Gln Leu Leu
 130 135 140
 Leu Ser Val Phe His Asn Arg Arg Trp Asp Ser Asp Phe Leu Gly Ile
 145 150 155 160
 Lys Gln Val Ile Ala Gln Gly Ser Ile Gly Lys Val Lys His Phe Glu
 165 170 175
 Ser His Ile Asp Arg Phe Arg Pro Glu Val Arg Val Arg Trp Arg Glu
 180 185 190
 Gln Asn Val Pro Gly Ser Gly Leu Trp Phe Asp Leu Gly Pro His Met
 195 200 205
 Ile Asp Gln Thr Leu Gln Leu Phe Gly Leu Pro Gln Ser Val Gln Gly
 210 215 220
 Asn Ile Ala Thr Leu Arg Asp Gly Ala Glu Ile Asn Asp Trp Ala His
 225 230 235 240
 Val Val Leu Asn Tyr Pro Glu His Lys Val Val Leu His Cys Ser Met
 245 250 255
 Leu Val Ala Gly Gly Val Ser Arg Phe Thr Ile His Gly Asn Lys Ala
 260 265 270
 Ser Val Val Lys Ala Arg Ile Asp Gln Gln Glu Ala Gln Leu Leu Ala
 275 280 285
 Gly Val Ile Pro Gly Ser Glu Ser Trp Gly Glu Asp Ser Asp Ala Met
 290 295 300
 Val Leu Leu Asn Ala Gln Arg Glu Ala Ser Ala Ile Pro Ala Pro Lys
 305 310 315 320
 Gly Asp Gln Arg Gln Tyr Tyr Ile Asn Val Arg Asp Ala Leu Asn Gly
 325 330 335
 Lys Ile Asp Asn Pro Val Pro Pro Val Glu Ala Leu Ala Val Met Ala
 340 345 350

Val Leu Glu Ser Ala Val Lys Ser Ser Glu Thr Gly Thr Thr His Glu
 355 360 365
 Leu Asp Leu Thr Ala His Asp Arg Ala Gln Leu Gln
 370 375 380

<210> 5771

<211> 254

<212> PRT

<213> Enterobacter cloacae

<400> 5771

Thr Val Lys Pro Lys Ser Pro Arg Leu Phe Ala Ile Ser Thr Pro Ala
 1 5 10 15
 Ala Leu Ala Lys Ser Lys Arg Lys Lys Glu Arg Ile Met Ser Thr Pro
 20 25 30
 Ala Asn Phe Asn Gly Ala Arg Pro Val Ile Asp Val Asn Asp Ala Val
 35 40 45
 Met Leu Leu Ile Asp His Gln Ser Gly Leu Phe Gln Thr Val Gly Asp
 50 55 60
 Met Pro Met Pro Glu Leu Arg Ala Arg Ala Ala Leu Ala Lys Ile
 65 70 75 80
 Ala Ser Leu Ala Lys Ile Pro Val Ile Thr Thr Ala Ser Val Pro Gln
 85 90 95
 Gly Pro Asn Gly Pro Leu Ile Pro Glu Ile His Ala Asn Ala Pro His
 100 105 110
 Ala Gln Tyr Val Ala Arg Lys Gly Glu Ile Asn Ala Trp Asp Asn Pro
 115 120 125
 Glu Phe Val Ala Ala Val Lys Ala Thr Gly Arg Lys Thr Leu Ile Ile
 130 135 140
 Ala Gly Thr Ile Thr Ser Val Cys Met Ala Phe Pro Ser Ile Ser Ala
 145 150 155 160
 Val Ala Asp Gly Tyr Lys Val Phe Ala Val Ile Asp Ala Ser Gly Thr
 165 170 175
 Tyr Ser Lys Met Ala Gln Glu Ile Thr Leu Ala Arg Val Val Gln Ala
 180 185 190
 Gly Val Val Pro Met Asp Thr Ala Ala Val Ala Ser Glu Ile Gln Arg
 195 200 205
 Thr Trp Asn Arg Glu Asp Ala Gly Glu Trp Ala Glu Val Tyr Thr His
 210 215 220
 Ile Phe Pro Val Tyr Gln Leu Leu Ile Glu Ser Tyr Ser Lys Ala Gln
 225 230 235 240
 Asp Val Val Lys Asn Ser Glu Val Leu Asp Ser Gln Arg
 245 250

<210> 5772

<211> 194

<212> PRT

<213> Enterobacter cloacae

<400> 5772

Arg Ala Val Asp Asp Gly Gly Pro Ser His Phe Ala Arg Gly Val Pro
 1 5 10 15
 Leu Gln Arg Phe Ser Gln Lys Ala Gly Glu Leu Lys Met Met Gln Leu
 20 25 30
 Trp Phe Asn Leu Pro Ala Lys Asp Lys Trp Gly Thr Pro Gly Tyr Gln
 35 40 45
 Ser Ile Thr Gln Ala Asp Ile Pro Val Val Thr Leu Pro Asp Asn Ser
 50 55 60
 Gly Thr Leu Arg Val Ile Ala Gly Arg Phe Gly Glu Val Thr Gly Pro
 65 70 75 80
 Ala His Thr Phe Ser Pro Leu Asn Val Trp Asp Leu Ala Leu His Gln

				85					90					95			
Gly	Ser	His	Leu	Thr	Leu	Asn	Gln	Pro	Glu	Gly	Trp	Ser	Thr	Ala	Leu		
			100					105					110				
Val	Val	Val	Glu	Gly	Ser	Val	Thr	Val	Asn	Gly	Thr	Thr	Pro	Ala	Gly		
		115					120					125					
Glu	Ala	Gln	Leu	Val	Val	Leu	Ser	Gln	Ser	Gly	Asp	Lys	Leu	His	Leu		
	130					135					140						
Glu	Ala	Ser	Ser	Asp	Ala	Lys	Val	Leu	Leu	Met	Ala	Gly	Glu	Pro	Leu		
145				150						155					160		
Asn	Glu	Pro	Ile	Val	Gly	Tyr	Gly	Pro	Phe	Val	Met	Asn	Ser	Lys	Thr		
			165						170					175			
Glu	Ile	Ala	Glu	Ala	Ile	Arg	Asp	Phe	Asn	Ser	Gly	Arg	Phe	Gly	Gln		
			180					185					190				
Ile																	

<210> 5773

<211> 124

<212> PRT

<213> Enterobacter cloacae

<400> 5773

Ser	Ala	Arg	Val	Trp	Arg	Phe	Val	Val	Lys	Arg	Leu	Gly	Pro	Glu	Gln		
1			5						10					15			
Arg	Ala	Glu	Leu	Val	Leu	Asn	Ala	Leu	Val	Ala	Ile	Arg	Phe	Leu	Lys		
		20						25				30					
Pro	Gln	Met	Pro	Lys	Ser	Trp	His	Phe	Leu	Ala	His	Gly	Met	Ser	Trp		
	35					40						45					
Thr	Pro	Ala	Ile	Gly	Asp	Ala	Ala	Ser	Val	Asn	Leu	Ser	Asp	Thr	Glu		
	50				55						60						
Glu	Glu	Val	Asn	Leu	Leu	Val	Val	Glu	Pro	Gly	Glu	Asn	Ala	Ala	Leu		
65			70					75						80			
Cys	Leu	Leu	Ala	Gln	Pro	Gly	Val	Asn	Ile	Ala	Gly	Arg	Val	Met	Gln		
			85					90					95				
Leu	Gly	Asp	Ala	Ile	Lys	Val	Met	Asn	Asp	Arg	Leu	Lys	Pro	Gln	Leu		
		100						105					110				
Arg	Val	Asp	Ser	Phe	Ser	Leu	Glu	Gln	Ala	Val							
		115					120										

<210> 5774

<211> 324

<212> PRT

<213> Enterobacter cloacae

<400> 5774

Thr	Ala	Arg	Gln	Phe	Pro	Gln	Met	Val	Arg	Phe	Thr	Pro	Ser	Pro	Leu		
1			5						10					15			
His	Asp	Gly	Leu	His	Leu	Thr	Ala	Pro	Asp	Gly	Ser	Ser	Val	Val	Ile		
		20						25				30					
Arg	Phe	Ala	Asp	Phe	Ala	Pro	Leu	Asp	Ala	Pro	Thr	Glu	Val	Trp	Gly		
	35					40					45						
Asn	His	Phe	Thr	Ala	Arg	Ile	Ala	Pro	Asp	Asn	Ile	Asn	Gln	Trp	Leu		
	50				55						60						
Ser	Gly	Phe	Phe	Ser	Arg	Asp	Val	Gln	Leu	Arg	Trp	Val	Gly	Pro	Ala		
65			70					75						80			
Leu	Thr	Arg	Arg	Val	Lys	Arg	His	Asp	Ala	Val	Pro	Leu	Ser	Phe	Ala		
			85					90					95				
Asp	Gly	Phe	Pro	Phe	Leu	Leu	Thr	Ser	Glu	Ala	Ser	Leu	Arg	Asp	Leu		
		100						105				110					
Gln	Lys	Arg	Cys	Lys	Ala	Ser	Val	Gln	Met	Glu	Gln	Phe	Arg	Pro	Asn		
		115					120					125					

Leu Val Val Thr Gly Ala Glu Ala Trp Asp Glu Asp Thr Trp Lys Val
 130 135 140
 Ile Arg Ile Gly Ser Val Ile Phe Asp Val Val Lys Pro Cys Ser Arg
 145 150 155 160
 Cys Ile Leu Thr Thr Ile Ser Pro Glu Lys Gly Gln Lys His Pro Ser
 165 170 175
 Gly Glu Pro Leu Lys Thr Leu Gln Ser Phe Arg Thr Ala Gln Asp Lys
 180 185 190
 Gly Asp Val Asp Phe Gly Gln Asn Leu Ile Pro Arg Ser Ser Gly Val
 195 200 205
 Ile Arg Val Gly Asp Glu Ile Glu Ile Leu Thr Arg Gly Pro Ala Arg
 210 215 220
 Val Tyr Gly Ala Gly Gln Glu Glu Glu Met Val Asp Val Val Thr Asn
 225 230 235 240
 Val Ala Ser Ala Val Asp Ile His Trp Glu Gly Lys Val Ile Arg Gly
 245 250 255
 Asn Asn Gln Gln Val Leu Leu Glu Gln Leu Glu Gln Ala Gly Ile Arg
 260 265 270
 Val Pro Tyr Ser Cys Arg Ala Gly Ile Cys Gly Cys Cys Arg Ile Lys
 275 280 285
 Leu Val Asp Gly Glu Val Ser Ala Leu Lys Lys Ser Ala Ile Gly Gly
 290 295 300
 Asp Gly Thr Ile Leu Cys Cys Ser Cys Val Pro Lys Thr Ser Val Gln
 305 310 315 320
 Leu Glu Ala

<210> 5775

<211> 264

<212> PRT

<213> Enterobacter cloacae

<400> 5775

Asn Arg Gly His Arg Tyr Ser Pro Val Leu Ala Ile Val Leu Leu Val
 1 5 10 15
 Arg Ser Leu Leu Tyr Glu Pro Phe Gln Ile Arg Ser Gly Ser Met Ile
 20 25 30
 Pro Thr Leu Leu Ile Gly Asp Phe Ile Leu Val Glu Lys Phe Ala Tyr
 35 40 45
 Gly Ile Lys Asp Pro Ile Tyr Gln Lys Thr Leu Ile Glu Thr Gly His
 50 55 60
 Pro Lys Arg Gly Asp Ile Val Val Phe Lys Tyr Pro Glu Asp Pro Arg
 65 70 75 80
 Leu Asp Tyr Ile Lys Arg Ala Val Gly Leu Pro Gly Asp Lys Val Thr
 85 90 95
 Tyr Asp Pro Val Ala Lys Glu Val Thr Ile Gln Pro Gly Cys Ser Ser
 100 105 110
 Gly Thr Ala Cys Glu Asn Ala Leu Pro Val Thr Tyr Ser Asn Val Glu
 115 120 125
 Pro Ser Asp Phe Val Gln Thr Phe Ala Arg Arg Asn Gly Gly Glu Ala
 130 135 140
 Thr Ser Gly Phe Phe Gln Val Pro Lys Gly Glu Thr Lys Glu Asn Gly
 145 150 155 160
 Ile Arg Leu Val Glu Arg Lys Glu Thr Leu Gly Asp Val Thr His Arg
 165 170 175
 Ile Leu Thr Val Pro Ile Ala Gln Asp Gln Leu Ala Met Tyr Tyr Gln
 180 185 190
 Gln Pro Gly Gln Gln Leu Ala Thr Trp Ile Val Pro Pro Gly His Tyr
 195 200 205
 Phe Met Met Gly Asp Asn Arg Asp Asn Ser Ala Asp Ser Arg Tyr Trp
 210 215 220

Gly Phe Val Pro Glu Ala Asn Leu Val Gly Lys Ala Thr Ala Ile Trp
 225 230 235 240
 Met Ser Phe Glu Lys Gln Glu Gly Glu Trp Pro Thr Gly Val Arg Leu
 245 250 255
 Asn Arg Ile Gly Gly Ile His
 260

<210> 5776

<211> 177

<212> PRT

<213> Enterobacter cloacae

<400> 5776

Thr Gly Cys Arg Arg Thr Gly Val Lys Asn Ala Gly Ala Gly Met Ser
 1 5 10 15
 Ile Asp Lys Thr Tyr Cys Gly Phe Ile Ala Ile Val Gly Arg Pro Asn
 20 25 30
 Val Gly Lys Ser Thr Leu Leu Asn Asn Leu Leu Gly Gln Lys Ile Ser
 35 40 45
 Ile Thr Ser Arg Lys Ala Gln Thr Thr Arg His Arg Ile Val Gly Ile
 50 55 60
 His Thr Glu Gly Ala Tyr Gln Ala Ile Tyr Val Asp Thr Pro Gly Leu
 65 70 75 80
 His Met Glu Glu Lys Arg Ala Ile Asn Arg Leu Met Asn Lys Ala Ala
 85 90 95
 Ser Ser Ser Ile Gly Asp Leu Glu Leu Val Ile Phe Val Val Glu Gly
 100 105 110
 Thr Arg Trp Thr Pro Asp Asp Glu Met Val Leu Asn Lys Leu Arg Asp
 115 120 125
 Gly Lys Thr Pro Val Ile Leu Ala Val Asn Lys Val Asp Asn Val Gln
 130 135 140
 Glu Lys Ala Asp Leu Leu Pro His Leu Gln Trp Leu Gly Ser His Met
 145 150 155 160
 Asn Phe Leu Asp Ile Val Ser Leu Ser Ala Asp Thr Gly Leu Asn Val
 165 170 175

Asp

<210> 5777

<211> 267

<212> PRT

<213> Enterobacter cloacae

<400> 5777

Asn Ile Pro Pro Lys Phe Lys Val Gly Pro Ala Arg Val Pro Arg His
 1 5 10 15
 Thr Lys Pro Arg Trp Phe Ser Gln Val Gly Phe Val Cys Cys Ile Phe
 20 25 30
 Asp Ala Phe Ile Tyr Trp Tyr Arg Met Asn Pro Ile Val Ile Asn Arg
 35 40 45
 Leu Gln Arg Lys Leu Gly Tyr Thr Phe His His Gln Glu Leu Leu Gln
 50 55 60
 Gln Ala Leu Thr His Arg Ser Ala Ser Ser Lys His Asn Glu Arg Leu
 65 70 75 80
 Glu Phe Leu Gly Asp Ser Ile Leu Ser Phe Val Ile Ala Asn Ala Leu
 85 90 95
 Tyr His Arg Phe Pro Arg Val Asp Glu Gly Asp Met Ser Arg Met Arg
 100 105 110
 Ala Thr Leu Val Arg Gly Asn Thr Leu Ala Glu Ile Ala Arg Glu Phe
 115 120 125
 Glu Leu Gly Glu Cys Leu Arg Leu Gly Pro Gly Glu Leu Lys Ser Gly

130		135		140	
Gly Phe Arg Arg Glu Ser Ile Leu Ala Asp Thr Val Glu Ala Leu Ile					
145		150		155	160
Gly Gly Val Phe Leu Asp Ser Asp Ile Gln Thr Val Glu Lys Leu Ile					
	165		170		175
Leu Asn Trp Tyr Gln Thr Arg Leu Asp Glu Ile Ser Pro Gly Asp Lys					
	180		185		190
Gln Lys Asp Pro Lys Thr Arg Leu Gln Glu Tyr Leu Gln Gly Arg His					
	195		200		205
Leu Pro Leu Pro Ser Tyr Leu Val Val Gln Val Arg Gly Glu Ala His					
	210		215		220
Asp Gln Glu Phe Thr Ile His Cys Gln Val Ser Gly Leu Ser Glu Pro					
225		230		235	240
Val Val Gly Thr Gly Ser Ser Arg Arg Lys Ala Glu Gln Ala Ala Ala					
	245		250		255
Glu Gln Ala Leu Lys Met Leu Glu Leu Glu					
	260		265		

<210> 5778

<211> 436

<212> PRT

<213> Enterobacter cloacae

<400> 5778

Thr Gly Lys Tyr His Met Val Asp Gln Val Lys Val Ala Ala Ala Glu					
1	5		10		15
Glu Ala Thr Ser Glu Gln Ser Leu Arg Arg Asn Leu Thr Asn Arg His					
	20		25		30
Ile Gln Leu Ile Ala Ile Gly Gly Ala Ile Gly Thr Gly Leu Phe Met					
	35		40		45
Gly Ser Gly Lys Thr Ile Ser Leu Ala Gly Pro Ser Ile Ile Phe Val					
	50		55		60
Tyr Met Ile Ile Gly Phe Met Leu Phe Phe Val Met Arg Ala Met Gly					
65	70		75		80
Glu Leu Leu Leu Ser Asn Leu Glu Tyr Lys Ser Phe Ser Asp Phe Ala					
	85		90		95
Ser Asp Leu Leu Gly Pro Trp Ala Gly Tyr Phe Thr Gly Trp Thr Tyr					
	100		105		110
Trp Phe Cys Trp Val Val Thr Gly Met Ala Asp Val Val Ala Ile Thr					
	115		120		125
Ala Tyr Ala Gln Phe Trp Phe Pro Gly Leu Ser Asp Trp Val Ala Ser					
	130		135		140
Leu Ala Val Ile Val Leu Leu Leu Ser Leu Asn Leu Ala Thr Val Lys					
145	150		155		160
Met Phe Gly Glu Met Glu Phe Trp Phe Ala Met Ile Lys Ile Val Ala					
	165		170		175
Ile Ile Ala Leu Ile Val Val Gly Leu Val Met Val Leu Thr His Phe					
	180		185		190
Gln Ser Pro Thr Gly Val Gln Ala Ser Phe Ala His Leu Trp Asn Asp					
	195		200		205
Gly Gly Trp Phe Pro Lys Gly Ile Ser Gly Phe Phe Ala Gly Phe Gln					
	210		215		220
Ile Ala Val Phe Ala Phe Val Gly Ile Glu Leu Val Gly Thr Thr Ala					
225	230		235		240
Ala Glu Thr Lys Asp Pro Glu Lys Ser Leu Pro Arg Ala Ile Asn Ser					
	245		250		255
Ile Pro Leu Arg Ile Ile Met Phe Tyr Val Phe Ala Leu Ile Val Ile					
	260		265		270
Met Ser Val Thr Pro Trp Ser Ser Val Val Pro Thr Lys Ser Pro Phe					
	275		280		285
Val Glu Leu Phe Val Leu Val Gly Leu Pro Ala Ala Ala Ser Leu Ile					

290		295		300
Asn Phe Val Val Leu Thr Ser Ala Ala Ser Ser Ala Asn Ser Gly Val				
305		310		315
Phe Ser Thr Ser Arg Met Leu Phe Gly Leu Ala Gln Glu Gly Val Ala				
		325		330
Pro Ser Ala Phe Ala Lys Leu Ser Lys Arg Ala Val Pro Ala Lys Gly				
		340		345
Leu Thr Phe Ser Cys Ile Cys Leu Leu Gly Gly Val Val Met Leu Tyr				
		355		360
Val Asn Pro Ser Val Ile Gly Ala Phe Thr Met Ile Thr Thr Val Ser				
		370		375
Ala Ile Leu Phe Met Phe Val Trp Thr Ile Ile Leu Cys Ser Tyr Leu				
385		390		395
Val Tyr Arg Lys Gln Arg Pro His Leu His Glu Lys Ser Ile Tyr Lys				
		405		410
Met Pro Leu Gly Lys Leu Met Cys Trp Val Cys Met Ala Phe Phe Val				
		420		425
Phe Val Leu Val				430
				435

<210> 5779

<211> 212

<212> PRT

<213> Enterobacter cloacae

<400> 5779

Glu Arg Glu Asp Ala Val Leu Pro Pro Ala Gly Glu Glu Leu Glu Ala				
1	5		10	15
Gln Ala Ser Tyr Gly Ile Gly Leu Gln Val Gly Gln Gln Leu Ser Glu				
	20		25	30
Ser Gly Leu Glu Gly Leu Leu Pro Glu Ala Leu Val Ala Gly Ile Ala				
	35		40	45
Asp Ala Leu Glu Gly Lys Gln Pro Ala Val Pro Val Asp Val Val His				
	50		55	60
Arg Ala Leu Arg Glu Ile His Glu Arg Ala Asp Ala Val Arg Arg Ala				
	65		70	75
Arg Phe Glu Glu Met Ala Ala Glu Gly Val Lys Tyr Leu Glu Glu Asn				
	85		90	95
Arg Glu Arg Glu Gly Val Asn Ser Thr Glu Ser Gly Leu Gln Phe Arg				
	100		105	110
Val Ile Asn Gln Gly Asp Gly Ala Ile Pro Ala Arg Thr Asp His Val				
	115		120	125
Arg Val His Tyr Thr Gly Lys Leu Ile Asp Gly Thr Val Phe Asp Ser				
	130		135	140
Ser Val Ala Arg Gly Glu Pro Ala Glu Phe Pro Val Asn Gly Val Ile				
	145		150	155
Ala Gly Trp Ile Glu Ala Leu Thr Leu Met Pro Val Gly Ser Lys Trp				
	165		170	175
Glu Leu Thr Ile Pro His Asn Leu Ala Tyr Gly Glu Arg Gly Ala Gly				
	180		185	190
Ala Ser Ile Pro Pro Phe Ser Thr Leu Val Phe Glu Val Glu Leu Leu				
	195		200	205
Glu Ile Leu				
	210			

<210> 5780

<211> 400

<212> PRT

<213> Enterobacter cloacae

<400> 5780

Asp Glu Thr Arg Ile Tyr Tyr Arg Arg Ser Leu Cys Asn Met Ala Asp
 1 5 10 15
 Asp Lys Leu Ser Gly Pro Asp Glu Lys Leu Phe Tyr Gln Ser Arg Arg
 20 25 30
 Leu Tyr Arg Lys Cys Cys Asn Ile Tyr Tyr Ile Gln Val Ser Met Met
 35 40 45
 Val Lys Lys Phe Lys Lys Leu Leu Leu Glu Phe Ile Val Ala Val Met
 50 55 60
 Leu Ser Leu Ser Ile Pro Gly Met Ala Met Ala Ala Asp Ala Gly Val
 65 70 75 80
 Pro Gly Ala Met Cys Gln Ser Ala Gly Val Trp Gln Gly Leu Ile Lys
 85 90 95
 Asn Ile Cys Trp Ser Cys Ile Phe Pro Met Arg Ile Met Gly Ile Gly
 100 105 110
 Ala Ala Pro Glu Gly Ala Ala Pro Ser Arg Pro Gly Cys Tyr Cys Thr
 115 120 125
 Asp Gln Asn Gly Val Pro Glu Ile Gly Trp Gln Leu Ser Phe Phe Gln
 130 135 140
 Pro Val Lys Ile Val Glu Val Val Lys Ser Pro Trp Cys Ser Pro Phe
 145 150 155 160
 Leu Glu Gly Thr Met Leu Gln Lys Ser Gln Phe Asp Ile Gly Lys Ser
 165 170 175
 Asn Thr Asn Gln Pro Met Thr Ala Thr Glu Ala Gly Phe Tyr Asp Val
 180 185 190
 His Leu Trp Glu Phe Pro Ile Met Thr Met Leu Lys Leu Leu Ile Ile
 195 200 205
 Gly Glu Cys Thr Ala Glu Pro Tyr Ile Asp Ala Ser Leu Thr Tyr Ile
 210 215 220
 Ser Glu Val Asp Pro Met Trp Glu Ser Asp Leu Leu Thr Leu Val Leu
 225 230 235 240
 Asn Pro Glu Ala Val Val Phe Ala Asn Pro Ile Ala Ser Met Val Cys
 245 250 255
 Ala Ala Asp Cys Val Ala Val Thr Ala Gly Lys Asp Asn Leu Ala Ala
 260 265 270
 Tyr Phe Cys Ala Gly Cys Asp Gly Asn Leu Tyr Pro Leu Thr Gly His
 275 280 285
 Met Tyr Ala Asn Asp Asp Ala Val Arg Thr Ser Ser Leu Ile Thr His
 290 295 300
 Arg Leu Leu Thr Lys Leu His Arg Gln Gly Met Leu Met Arg Thr Met
 305 310 315 320
 Gly Ala Asp Ala Met Cys Glu Lys Thr Trp Glu Tyr Phe Thr Pro Arg
 325 330 335
 Ser Gln Tyr Arg Leu Ser Met Leu Phe Pro Thr Pro Glu Ala Lys Gly
 340 345 350
 Pro Asp Cys Cys His Arg Leu Gly Asp Ser Val His Asp Trp Ser Thr
 355 360 365
 Leu Lys Gly Gly Arg Lys Lys Ile Gly Asn Asp Asn Tyr Val Tyr Met
 370 375 380
 Leu Trp Arg Tyr Asn Asp Cys Cys Val Arg Tyr Ile Pro Gly Ala
 385 390 395 400

<210> 5781

<211> 293

<212> PRT

<213> Enterobacter cloacae

<400> 5781

Gln Ile Trp Ser Ile Tyr Met Ala Trp Asn Gln Pro Gly Asn Asn Gly
 1 5 10 15
 Gln Asp Arg Asp Pro Trp Gly Ser Ser Asn Asn Gln Gly Gly Asn Ser
 20 25 30

Gly Gly Asn Gly Asn Lys Gly Gly Arg Glu Gln Gly Pro Pro Asp Leu
 35 40 45
 Asp Asp Ile Phe Arg Lys Leu Ser Lys Lys Leu Gly Gly Leu Gly Gly
 50 55 60
 Gly Lys Gly Ser Gly Ser Gly Gly Asn Ser Thr Gln Ser Pro Arg Pro
 65 70 75 80
 Pro Met Gly Gly Arg Val Val Gly Ile Val Ala Ala Ala Val Val Ile
 85 90 95
 Ile Trp Ala Ala Ser Gly Phe Tyr Thr Ile Lys Glu Ala Glu Arg Gly
 100 105 110
 Val Val Thr Arg Phe Gly Lys Phe Ser His Leu Val Glu Pro Gly Leu
 115 120 125
 Asn Trp Lys Pro Thr Phe Ile Asp Asp Val Thr Ala Val Asn Val Glu
 130 135 140
 Ser Val Arg Glu Leu Ala Ala Ser Gly Val Met Leu Thr Ser Asp Glu
 145 150 155 160
 Asn Val Val Arg Val Glu Met Asn Val Gln Tyr Arg Val Thr Asp Pro
 165 170 175
 Glu Arg Tyr Leu Phe Ser Val Thr Ser Ala Asp Asp Ser Leu Arg Gln
 180 185 190
 Ala Thr Asp Ser Ala Leu Arg Gly Val Ile Gly Lys Tyr Thr Met Asp
 195 200 205
 Arg Ile Leu Thr Glu Gly Arg Thr Val Ile Arg Ser Asp Thr Gln Arg
 210 215 220
 Glu Leu Glu Glu Thr Ile Arg Pro Tyr Asn Met Gly Ile Thr Leu Leu
 225 230 235 240
 Asp Val Asn Phe Gln Ala Ala Arg Pro Pro Glu Glu Val Lys Ala Ala
 245 250 255
 Phe Asp Asp Ala Ile Ala Ala Arg Glu Asn Glu Gln Gln Tyr Ile Arg
 260 265 270
 Glu Ala Glu Ala Tyr Thr Lys Asp Val Arg Leu His Leu Gly Arg Ala
 275 280 285
 Asp Pro Arg Arg Ala
 290

<210> 5782

<211> 111

<212> PRT

<213> Enterobacter cloacae

<400> 5782

Thr Lys Met Asp Met Leu Glu Asp Phe Glu Pro Arg Ile Asp Arg Asp
 1 5 10 15
 Glu Glu Asn Lys Pro Ile Arg Val Trp Leu Tyr Ala Gln Ala Gly Ile
 20 25 30
 Gly Val Pro Leu Leu Phe Gln Ala Leu Thr Glu Arg Leu Ser Gly Glu
 35 40 45
 Val Ala Gln His Thr Leu Arg Leu Pro Pro Gln Glu Gly Arg Leu Arg
 50 55 60
 Ser Arg Phe Tyr Gln Leu Gln Ala Ile Glu Lys Glu Trp Met Glu Asp
 65 70 75 80
 Asp Gly Ser Val Gly Met Gln Val Arg Met Pro Ile Val Asp Trp Arg
 85 90 95
 Arg Leu Cys Lys Gln Glu Pro Ala Leu Ala Asp Tyr Ile Val
 100 105 110

<210> 5783

<211> 199

<212> PRT

<213> Enterobacter cloacae

<400> 5783

Gly His His His Pro Val Leu Gly Ile Val Ile Lys Cys Pro Leu Ser
 1 5 10 15
 Gly Glu Thr Gln Gln Glu Arg Ile Met Met Ser Leu Ala Gly Lys Lys
 20 25 30
 Ile Val Leu Gly Val Ser Gly Gly Ile Ala Ala Tyr Lys Thr Pro Asp
 35 40 45
 Leu Val Arg Arg Leu Arg Glu Arg Gly Ala Asp Val Arg Val Ala Ile
 50 55 60
 Thr Glu Gly Gly Lys Ala Phe Ile Thr Pro Leu Ser Leu Gln Ala Val
 65 70 75 80
 Ser Gly Tyr Pro Val Ser Asp Ser Leu Leu Asp Pro Ala Ala Glu Ala
 85 90 95
 Ala Met Gly His Ile Glu Leu Gly Lys Trp Ala Asp Leu Val Ile Leu
 100 105 110
 Ala Pro Ala Thr Ala Asp Leu Ile Ala Arg Leu Ala Thr Gly Met Ala
 115 120 125
 Asn Asp Leu Val Thr Thr Ile Cys Leu Ala Thr Pro Ala Pro Val Ala
 130 135 140
 Val Val Pro Ala Met Asn Gln Gln Met Tyr Arg Asn Ala Ala Thr Gln
 145 150 155 160
 His Asn Leu Asp Thr Leu Ala Ser Arg Gly Leu Leu Ile Trp Gly Thr
 165 170 175
 Asp Ser Gly Ser Gln Ala Cys Gly Glu Ile Gly Gly Arg Gly Phe Pro
 180 185 190
 Gln Pro Ile Asn Asp Cys
 195

<210> 5784

<211> 68

<212> PRT

<213> Enterobacter cloacae

<220>

<221> UNSURE

<222> (52)

<400> 5784

Phe Gly Glu Arg Thr Ala Ala Ala Lys Pro Ala Gly Lys Leu Gly Ala
 1 5 10 15
 Gly Val Phe Leu Asn Pro Leu Thr Ile Val Asp Met Ala Ala Ala His
 20 25 30
 Phe Ser Pro Val Asn Asp Leu Gln His Leu Asn Ile Met Asn Thr Ala
 35 40 45
 Gly Pro Pro Xaa Lys Pro Leu Gly Phe Arg Ala Leu His Gln Gln Pro
 50 55 60
 Lys Val Arg Glu
 65

<210> 5785

<211> 284

<212> PRT

<213> Enterobacter cloacae

<400> 5785

Phe Phe Pro Val Gly Phe His Gln Arg Ala Gly Ile Leu Ser Gln Ser
 1 5 10 15
 Leu Lys Arg Gly Asp Asp Val Leu Asn Ser Leu Cys Glu Ala Leu Arg
 20 25 30
 Lys Asn Glu Met Pro Ala Ser Asn Pro Glu Phe Ala Cys Gly Ser Ile
 35 40 45

```

Met Ala Asn Arg Arg Arg Pro Gly Met Glu Glu Thr Glu Leu Leu Leu
 50          55          60
Pro Arg Glu Lys Met Leu Arg His Gly Val Thr Leu Leu Lys Asp Asp
65          70          75          80
Glu Leu Leu Ala Leu Phe Leu Arg Thr Gly Thr Pro Gly Lys Thr Val
      85          90          95
Phe Thr Leu Ala Lys Glu Leu Ile Asp His Phe Gly Ser Leu Tyr Gly
      100          105          110
Leu Leu Thr Ala Glu Leu Glu Ala Phe Thr His Val Glu Gly Ile Gly
      115          120          125
Val Ala Lys Tyr Ala Gln Leu Arg Gly Ile Ala Glu Leu Ala Arg Arg
      130          135          140
Phe Tyr Asn Val Arg Met Glu Glu Glu Asp Pro Ile Leu Thr Pro Asp
145          150          155          160
Met Thr Arg Glu Phe Leu Gln Ser Gln Leu Ser Asp Leu Glu Arg Glu
      165          170          175
Ile Phe Met Val Ile Phe Leu Asp Asn Lys Asn Arg Val Leu Lys His
      180          185          190
Thr Arg Leu Phe Ser Gly Thr Leu Ser His Val Glu Val His Pro Arg
      195          200          205
Glu Ile Val Arg Glu Ala Ile Lys Val Asn Ala Ala Gly Val Ile Leu
      210          215          220
Ala His Asn His Pro Ser Gly Cys Ala Glu Pro Ser Arg Ala Asp Lys
225          230          235          240
Ala Ile Thr Glu Arg Ile Ile Lys Cys Cys Gln Phe Met Asp Ile Arg
      245          250          255
Val Leu Asp His Leu Ile Ile Gly Arg Gly Glu Tyr Ile Cys Leu His
      260          265          270
His Arg Gly Ser Lys Glu Pro Arg Tyr Ala Cys Ile
      275          280

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<210> 5786

<211> 112

<212> PRT

<213> Enterobacter cloacae

<400> 5786

```

Met Asn Met Leu Ser Phe Glu Gly Lys Glu Ile Glu Thr Asp Asn Asp
1          5          10          15
Gly Tyr Leu Lys Glu Ser Ser Gln Trp Ser Glu Ala Leu Ala Glu Lys
      20          25          30
Ile Ala Asp Asn Glu Gly Ile Thr Leu Ser Pro Glu His Trp Glu Val
      35          40          45
Val Arg Phe Val Arg Glu Phe Tyr Leu Glu Phe Asn Thr Ser Pro Ala
      50          55          60
Ile Arg Met Leu Val Lys Ala Met Ala Asn Lys Phe Gly Glu Glu Lys
      65          70          75          80
Gly Asn Ser Arg Tyr Leu Tyr Arg Leu Phe Pro Lys Gly Pro Ala Lys
      85          90          95
Gln Ala Thr Lys Ile Ala Gly Leu Pro Lys Pro Val Lys Cys Ile
      100          105          110

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<210> 5787

<211> 221

<212> PRT

<213> Enterobacter cloacae

<400> 5787

```

Leu Met Asp Arg Ile Ile Thr Ser Ser Arg Asp Arg Thr Ser Leu Leu
1          5          10          15
Ser Thr His Lys Val Leu Arg Asn Thr Tyr Phe Met Leu Ser Leu Thr

```

	20		25		30										
Leu	Ala	Phe	Ser	Ala	Ile	Thr	Ala	Thr	Ala	Ser	Thr	Val	Leu	Met	Leu
	35						40					45			
Pro	Ser	Pro	Gly	Leu	Ile	Leu	Thr	Leu	Val	Gly	Met	Tyr	Gly	Leu	Met
	50					55					60				
Phe	Leu	Thr	Tyr	Lys	Thr	Ala	Asp	Lys	Pro	Val	Gly	Ile	Leu	Ser	Ala
65					70					75					80
Phe	Ala	Phe	Thr	Gly	Phe	Leu	Gly	Tyr	Ile	Leu	Gly	Pro	Ile	Leu	Asn
				85					90						95
Ala	Tyr	Leu	Ser	Ala	Gly	Met	Gly	Asp	Val	Ile	Gly	Met	Ala	Leu	Gly
			100					105					110		
Gly	Thr	Ala	Leu	Val	Phe	Phe	Cys	Cys	Ser	Ala	Tyr	Val	Leu	Thr	Thr
	115						120					125			
Arg	Lys	Asp	Met	Ser	Phe	Leu	Gly	Gly	Met	Leu	Met	Ala	Gly	Ile	Val
	130					135					140				
Ile	Val	Leu	Val	Gly	Met	Leu	Ala	Asn	Ile	Phe	Leu	Gln	Leu	Pro	Ala
145					150					155					160
Leu	His	Leu	Ala	Ile	Ser	Ala	Val	Phe	Ile	Leu	Ile	Ser	Ser	Gly	Ala
				165					170						175
Ile	Leu	Tyr	Glu	Thr	Ser	Asn	Ile	Ile	His	Gly	Gly	Glu	Thr	Asn	Tyr
			180					185					190		
Ile	Arg	Ala	Thr	Val	Ser	Leu	Tyr	Val	Ser	Leu	Tyr	Asn	Ile	Phe	Val
	195						200					205			
Ser	Leu	Leu	Ser	Ile	Leu	Gly	Phe	Gly	Ser	Arg	Asp				
	210					215					220				

<210> 5788

<211> 94

<212> PRT

<213> Enterobacter cloacae

<400> 5788

Cys	Gln	Met	Phe	Ala	Pro	Leu	Pro	Gly	Ser	His	Gly	Val	Gly	Gln	Gly
1				5				10					15		
Ile	Gly	Phe	Arg	Tyr	Ser	Thr	Gln	Arg	Glu	Ala	Leu	Gln	Leu	Gly	Leu
			20					25				30			
Thr	Gly	Tyr	Ala	Arg	Asn	Met	Asp	Asp	Gly	Ser	Val	Glu	Val	Val	Ala
	35					40					45				
Cys	Gly	Glu	Ala	Asp	Arg	Val	Glu	Lys	Leu	Val	Ala	Trp	Leu	Lys	Ala
	50					55				60					
Gly	Gly	Pro	Arg	Ser	Ala	Arg	Val	Asp	Lys	Val	Leu	Thr	Glu	Pro	His
65					70				75						80
Gln	Pro	Gly	Arg	Glu	Tyr	Ala	Asp	Phe	Ser	Ile	Arg	Tyr			
				85					90						

<210> 5789

<211> 384

<212> PRT

<213> Enterobacter cloacae

<400> 5789

Lys	Ile	Leu	Arg	Tyr	Ile	Pro	Lys	Ala	Ala	Lys	Asn	Tyr	Phe	Arg	Ile
1				5				10					15		
Val	Ile	Lys	Thr	Asp	Asn	Lys	Ala	Lys	Glu	Met	Lys	Pro	Gln	Thr	Arg
			20					25				30			
Thr	His	Phe	Thr	Leu	Ser	Leu	Leu	Thr	Ala	Gly	Ile	Leu	Cys	Ala	Ser
	35					40					45				
Thr	Ala	Thr	Trp	Ala	Ala	Asn	Val	Pro	Ala	Gly	Thr	Gln	Leu	Ala	Asp
	50					55				60					
Lys	Gln	Glu	Leu	Val	Arg	Asn	Asn	Gly	Ser	Glu	Pro	Ala	Ser	Leu	Asp
65					70				75						80

Pro His Lys Val Glu Ser Asp Val Glu Phe Asn Ile Ile Ser Asp Leu
 85 90 95
 Phe Asp Gly Leu Val Ser Val Ser Pro Ala Gly Glu Ile Gln Pro Arg
 100 105 110
 Leu Ala Glu Lys Trp Glu Asn Lys Asp Asn Thr Val Trp Thr Phe His
 115 120 125
 Leu Arg Pro Gly Ile Thr Trp Ser Asp Gly Thr Pro Ile Thr Ala Glu
 130 135 140
 Asp Ile Val Trp Ser Trp Gln Arg Leu Val Asp Pro Lys Thr Ala Ser
 145 150 155 160
 Pro Tyr Ala Ser Tyr Pro Gly Ser Met Arg Ile Val Asn Gly Thr Asp
 165 170 175
 Ile Ala Glu Gly Lys Lys Ala Pro Glu Ser Leu Gly Val Lys Ala Ile
 180 185 190
 Asn Asp Thr Thr Leu Glu Val Thr Leu Thr Gln Pro Asn Ala Ala Phe
 195 200 205
 Leu Ala Met Leu Ala His Pro Ser Leu Val Pro Ile Asp Lys Val Leu
 210 215 220
 Val Gly Arg Phe Gly Asp Lys Trp Thr Lys Pro Glu His Phe Val Ser
 225 230 235 240
 Ser Gly Ala Tyr Lys Leu Ser Gln Trp Val Val Asn Glu Arg Ile Val
 245 250 255
 Ala Val Leu Asn Pro Lys Tyr Trp Asp Asn Glu His Thr Val Ile Asn
 260 265 270
 Lys Val Thr Tyr Leu Pro Ile Ser Ser Glu Ala Ala Asp Val Asn Arg
 275 280 285
 Tyr Lys Ala Gly Glu Ile Asp Ile Val Tyr Thr Val Pro Ile Asn Gln
 290 295 300
 Phe Ala Gln Leu Lys Lys Thr Leu Gly Ser Glu Leu Asp Val Ser Pro
 305 310 315 320
 Gln Leu Ala Thr Tyr Tyr Tyr Glu Phe Asn Thr Thr Arg Pro Pro Phe
 325 330 335
 Asn Asp Ala Arg Val Arg Lys Ala Leu Asn Leu Ala Leu Asp Lys Asp
 340 345 350
 Ile Ile Ala Asp Lys Val Ile Arg Gln Gly Gln Arg Pro Ala Trp Leu
 355 360 365
 Ile Asn Gln Pro Asp Ile Gly Gly Val Lys Leu Gln Asn Pro Gly
 370 375 380

<210> 5790

<211> 316

<212> PRT

<213> Enterobacter cloacae

<400> 5790

Lys Val Leu Pro Gly Val Ser Ala His Met Lys Lys Met Ala Asp Glu
 1 5 10 15
 Ala Gly Gly Leu Asp Arg Val Ser Gln Met Ala Val Thr Gly Ile Gly
 20 25 30
 Arg Val Lys Ala Ala Met Glu Asn Asp Leu Asn Lys Ala Phe Thr Ser
 35 40 45
 Ser Glu Lys Gly Phe Gly Gln Phe Asn Ala Ser Val Ala Asn Met Leu
 50 55 60
 Asn Asp Ala Ser Pro Ile Ala Glu Ala Leu Gly His Ile Leu Gly Lys
 65 70 75 80
 Val Ala Ser Met Thr Ser Gly Ala Val Asp His Val Asp Glu Trp Ser
 85 90 95
 Arg Lys Leu Ser Ala Leu Ile Leu Arg Thr Ser Ala Trp Tyr Asp Asp
 100 105 110
 Leu Ser Asp Gly Gln Lys Lys Leu Val Asp Ser Ala Glu Gln Phe Ala
 115 120 125


```

Ile Gly Ala Ala Gly Val Leu Val Leu Val Lys Ser Ile Ala Gly Val
130                      135                      140
Ala Asn Lys Leu Lys Trp Leu Ser Ala Leu Leu Gly Gly Ala Glu
145                      150                      155                      160
Ala Gly Ala Ala Ala Gly Ala Gly Gly Leu Leu Lys Gly Ala Ser Arg
                      165                      170                      175
Leu Ala Gly Pro Val Gly Val Ala Leu Val Ala His Asp Ala Val Asp
                      180                      185                      190
Ala Ser Gly Val Glu Gln Asn Tyr Pro Asn Ala Val Gly Thr Gly Asn
                      195                      200                      205
Pro Ile Ala Gln Val Leu Asn Trp Leu Thr Asn Pro Ser Lys Ile Leu
                      210                      215                      220
Gly Ala Thr Glu Gln Asp Ser Leu Thr Asn Ser Pro Phe Thr Arg Met
225                      230                      235                      240
Met Gly Ser Leu Gly Asp Trp Leu Gln Gly Asn Asn Ala Leu Ser Gly
                      245                      250                      255
Gln Ala Asn Thr Phe Ala Val Pro Ser Met Tyr Asn Pro Ala Gln Thr
                      260                      265                      270
Thr Ile Arg Asn Asp Gln Arg Ile Asn Ile Ser Val Asn Met Asp Ser
                      275                      280                      285
Gln Lys Ile Gly Thr Phe Gln Thr Gln Val Leu Thr Gly Gly Phe Glu
                      290                      295                      300
Asp Leu Asn Ile Asn Ala Glu His Leu Gly Asp
305                      310                      315

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<210> 5791

<211> 185

<212> PRT

<213> Enterobacter cloacae

<400> 5791

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Thr Gly Gln Asp Arg Ile Tyr Arg Leu Glu Leu Phe Cys Arg Glu Pro
1                      5                      10                      15
Thr Ile Phe Lys His Ala Cys Cys Ile Ile Asn Leu Ser Gly Leu Ala
                      20                      25                      30
Cys Ala Asp Glu His Gly Cys His Arg Ile Val Ala Gln Asp Pro Gly
                      35                      40                      45
Gln Cys His Leu Arg Gln Leu Leu Pro Pro Phe Phe Arg Gln Arg Ile
                      50                      55                      60
Gln Leu Thr Tyr Leu Phe Gln Leu Phe Val Gly Asp Leu Phe Arg Ile
65                      70                      75                      80
Lys Glu Leu Thr Ala Ala Cys Cys Ala Arg Ile Arg Arg Asp Ala Val
                      85                      90                      95
Gln Ile Ala Ile Gly Gln Leu Ser Ala Arg Gln Gly Arg Glu Gly Asp
                      100                      105                      110
Thr Ser His Pro Phe Leu Leu Gln His Val Gln Gln Pro Leu Phe Arg
                      115                      120                      125
Arg Thr Phe Lys His Gly Val Leu Arg Leu Val Asp Gln Thr Trp Arg
                      130                      135                      140
Ala Gln Ile Leu His Tyr Phe Asn Arg Leu Pro Cys His Phe Cys Arg
145                      150                      155                      160
Val Val Gly Gln Thr Asp Val Gln Arg Phe Ala Leu Thr His His Met
                      165                      170                      175
Val Lys Arg Phe His Gly Phe Thr
                      180                      185

```

<210> 5792

<211> 349

<212> PRT

<213> Enterobacter cloacae

<400> 5792

Cys Lys Arg Ile His Gly Cys Phe Phe Pro Ala Pro Glu Val Ser Gln
 1 5 10 15
 Met Gly Tyr Gln Pro Asp Lys Asn Arg Tyr Gln Thr Met Gln Tyr Arg
 20 25 30
 Arg Cys Gly Gln Ser Gly Leu Lys Leu Pro Ala Ile Ser Leu Gly Leu
 35 40 45
 Trp His Asn Phe Gly Asp Ala Thr Leu Leu Glu Asn Ser Arg Gln Leu
 50 55 60
 Leu Gln Arg Ala Phe Asn Leu Gly Ile Thr His Phe Asp Leu Ala Asn
 65 70 75 80
 Asn Tyr Gly Pro Pro Gly Ser Ala Glu Arg Asn Phe Gly Arg Ile
 85 90 95
 Leu Gln Glu Asp Phe Leu Pro Trp Arg Asp Glu Leu Ile Ile Ser Thr
 100 105 110
 Lys Ala Gly Tyr Thr Met Trp Asp Gly Pro Tyr Gly Asp Trp Gly Ser
 115 120 125
 Arg Lys Tyr Leu Ile Ala Ser Leu Asp Gln Ser Leu Lys Arg Met Gly
 130 135 140
 Leu Glu Tyr Val Asp Ile Phe Tyr His His Arg Pro Asp Pro His Thr
 145 150 155 160
 Pro Leu Arg Glu Thr Met Lys Ala Leu Asp His Val Val Arg Gln Gly
 165 170 175
 Lys Ala Leu Tyr Ile Gly Leu Ser Asn Tyr Pro Ala Glu Met Ala Arg
 180 185 190
 Gln Ala Ile Glu Ile Met Glu Asp Leu Gly Thr Pro Cys Leu Ile His
 195 200 205
 Gln Pro Lys Tyr Ser Met Phe Glu Arg Ala Pro Glu Glu Gly Leu Leu
 210 215 220
 Asp Val Leu Gln Gln Lys Gly Val Gly Cys Ile Pro Phe Ser Pro Leu
 225 230 235 240
 Ala Gly Gly Gln Leu Thr Asp Arg Tyr Leu Asn Gly Ile Pro Ala Asp
 245 250 255
 Ser Arg Ala Ala Ser Gly Ser Lys Phe Leu Asn Pro Glu Gln Ile Thr
 260 265 270
 Asp Lys Lys Leu Glu Lys Val Arg Lys Leu Asn Ala Leu Ala Glu Lys
 275 280 285
 Arg Arg Gln Lys Leu Ser Gln Met Ala Leu Ala Trp Ile Leu Arg His
 290 295 300
 Asp Ala Val Thr Ser Val Leu Ile Gly Ala Ser Lys Thr Gly Gln Ile
 305 310 315 320
 Asp Asp Ala Ala Gly Val Leu Glu Asn Cys Arg Phe Thr Ala Glu Glu
 325 330 335
 Leu Lys Thr Ile Asp Thr Ile Leu Ser Ser Ser Asp
 340 345

<210> 5793

<211> 464

<212> PRT

<213> Enterobacter cloacae

<400> 5793

Gly Asn Lys Met Gln Val Ser Val Glu Thr Thr Gln Gly Leu Gly Arg
 1 5 10 15
 Arg Val Thr Ile Thr Ile Ala Ala Asp Ser Ile Glu Thr Ala Val Lys
 20 25 30
 Ser Glu Leu Val Asn Val Ala Lys Val Arg Ile Asp Gly Phe Arg
 35 40 45
 Lys Gly Lys Val Pro Met Asn Val Val Ala Gln Arg Tyr Gly Ala Ser
 50 55 60
 Val Arg Gln Asp Val Leu Gly Glu Leu Met Ser Arg Asn Phe Ile Asp

```

65          70          75          80
Ala Ile Ile Lys Glu Lys Ile Asn Pro Ala Gly Ala Pro Asn Tyr Val
      85          90          95
Pro Gly Glu Tyr Lys Gln Gly Glu Asp Phe Thr Tyr Ser Val Glu Phe
      100        105        110
Glu Val Tyr Pro Glu Val Glu Leu Lys Gly Leu Glu Ser Ile Glu Val
      115        120        125
Glu Lys Pro Ile Val Ser Val Thr Asp Glu Asp Val Asp Gly Met Leu
      130        135        140
Asp Thr Leu Arg Lys Gln Gln Ala Asn Trp Lys Glu Lys Glu Gly Ala
      145        150        155        160
Val Asp Ala Glu Asp Arg Val Thr Ile Asp Phe Thr Gly Ser Val Asp
      165        170        175
Gly Glu Glu Phe Glu Gly Gly Lys Ala Ser Asp Phe Val Leu Ala Met
      180        185        190
Gly Gln Gly Arg Met Ile Pro Gly Phe Glu Asp Gly Ile Lys Gly His
      195        200        205
Lys Ala Gly Glu Glu Phe Thr Ile Asp Val Thr Phe Pro Glu Glu Tyr
      210        215        220
His Ala Glu Asn Leu Lys Gly Lys Ala Ala Lys Phe Val Ile Asn Leu
      225        230        235        240
Lys Lys Val Glu Glu Arg Glu Leu Pro Glu Leu Thr Glu Glu Phe Ile
      245        250        255
Lys Arg Phe Gly Val Glu Asp Gly Ser Val Ala Gly Leu Arg Thr Glu
      260        265        270
Val Arg Lys Asn Met Glu Arg Glu Leu Asn Gly Ala Val Arg Asn Arg
      275        280        285
Val Lys Ser Gln Ala Ile Glu Gly Leu Val Lys Ala Asn Asp Ile Asp
      290        295        300
Val Pro Ala Ala Leu Ile Asp Ser Glu Ile Asp Val Leu Arg Arg Gln
      305        310        315        320
Ala Ala Gln Arg Phe Gly Gly Asn Gln Gln Gln Ala Met Glu Leu Pro
      325        330        335
Arg Glu Leu Phe Glu Glu Gln Ala Lys Arg Arg Val Val Val Gly Leu
      340        345        350
Leu Leu Gly Glu Val Ile Arg Thr His Glu Leu Lys Ala Asp Glu Glu
      355        360        365
Arg Val Lys Gly Leu Ile Glu Glu Met Ala Ser Ala Tyr Glu Asp Pro
      370        375        380
Ser Glu Val Ile Glu Phe Tyr Gly Lys Asn Lys Glu Leu Met Asp Asn
      385        390        395        400
Met Arg Asn Val Ala Leu Glu Glu Gln Ala Val Glu Ala Val Leu Ala
      405        410        415
Lys Ala Lys Val Thr Glu Lys Glu Thr Ser Phe Thr Glu Leu Met Asn
      420        425        430
His Gln Gly Val Ile Ser Pro Gln Arg Phe Lys Val Leu Asn Lys Lys
      435        440        445
Pro Val Gly Pro Pro Gly Asp Gly Val Phe Phe Asn His Lys Leu
      450        455        460

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<210> 5794

<211> 364

<212> PRT

<213> Enterobacter cloacae

<400> 5794

```

Gly Leu His His Ala Gly Asp Pro Gly Tyr Arg Arg Ala Tyr Cys Leu
1          5          10          15
Ile Ala Asp Leu Cys His Cys Tyr Arg Asn Ala Gly Glu Arg His Arg
      20        25        30
Arg Ser Gly Val Cys Arg Ala Gly His Ser Pro Cys Asp Ala His Ala

```

```

      35      40      45
Met Arg Ala Gly Pro Ser Ser Leu Asp Pro Ala Asp Val Ser Tyr Arg
50      55      60
Arg Pro Leu Tyr Asp Pro Arg Arg Tyr Arg Leu Thr His Ala Asp Cys
65      70      75      80
Ala Pro Gly Ser Ala His Arg Gly Gly Asp Cys Ala Gly Gly Arg Pro
85      90      95
Arg Leu Cys Gly Val Ala Leu Ser Lys Pro Lys Gly Ala Ser Met Asn
100      105      110
Ile Thr Val Ala Gly Leu Thr Val Thr Arg Gln Ala Gln Thr Val Leu
115      120      125
Lys Asn Ile Asp Leu Asp Leu Pro Ser Gly Gln Ile Ile Gly Leu Leu
130      135      140
Gly Pro Asn Gly Ser Gly Lys Ser Thr Leu Leu Arg Cys Leu Ala Gly
145      150      155      160
Leu Phe Pro Arg Leu Ser Glu Arg Val Ala Leu Asn Gly Thr Thr Phe
165      170      175
Gly Met Met Pro Leu Lys Lys Arg Ala Gln His Met Ala Phe Val Pro
180      185      190
Gln His Ala Glu Val Asp Gly Glu Leu Thr Val Glu Asp Ile Val Arg
195      200      205
Leu Gly Arg Thr Pro Tyr Arg Lys Thr Phe Gln Arg Thr Ser Arg Asp
210      215      220
Asp Glu Ala Ala Val Glu Gln Ala Ile Gly Leu Met Gln Leu Cys Arg
225      230      235      240
Leu Arg Gln Arg Arg Trp His Ser Leu Ser Gly Gly Glu Arg Gln Arg
245      250      255
Ser Gln Ile Ala Arg Ala Leu Ala Gln Gln Pro Gln Val Leu Leu Leu
260      265      270
Asp Glu Pro Thr Asn His Leu Asp Ile Gln His Gln Leu Glu Leu Met
275      280      285
Arg Leu Val Ser Gln Leu Pro Leu Thr Val Val Val Ala Leu His Asp
290      295      300
Leu Asn Leu Ala Ala Asn Tyr Cys Gln Arg Leu Ile Leu Leu Lys Ala
305      310      315      320
Gly Gln Ile Ala Ala Thr Gly Ala Pro Glu Ala Val Leu Thr Pro Ala
325      330      335
Asn Ile Glu Asp Thr Trp Cys Val Lys Ala Gln Val Cys Lys Ala Asp
340      345      350
Ala Gly Ile Thr Ile Ser Tyr Asn Met Val Ala
355      360

```

<210> 5795

<211> 186

<212> PRT

<213> Enterobacter cloacae

<400> 5795

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Leu Ala Gly Ile Ala Gly Ala Gln Leu Phe Asn Ala Met Thr Ala Tyr
1      5      10      15
Val Val Gly Thr Ser Ala Asn Ala Glu Gln Ser Arg Ser Val Met Phe
20      25      30
Trp Leu Leu Gly Ser Leu Ser Gly Val Arg Trp Pro Asp Ala Leu Leu
35      40      45
Ala Leu Ala Val Thr Leu Ala Gly Leu Leu Val Val Leu Leu Phe Ser
50      55      60
Arg Ala Leu Asp Thr Phe Thr Phe Gly Asp Glu Val Ser Thr Thr Leu
65      70      75      80
Gly Ile Pro Val Thr Ala Val Arg Ile Val Leu Leu Leu Thr Cys Ala
85      90      95
Ile Val Thr Ala Thr Leu Val Ser Ala Thr Gly Ala Val Gly Phe Val

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```
<210> 5796
<211> 134
<212> PRT
<213> Enterobacter cloacae
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<210> 5797
<211> 192
<212> PRT
<213> Enterobacter cloacae
```

<220>
<221> UNSURE
<222> (67)

<220>
<221> UNSURE
<222> (72)

<400> 5797
Leu Thr Tyr Asp Lys Asn Asn Leu Met Ile Lys Leu Ser Asn Ile Thr
1 5 10 15

Lys Val Phe Gln Gln Gly Asn Arg Thr Ile Gln Ala Leu Asn Asn Val
 20 25 30
 Ser Leu His Val Pro Ala Gly Gln Xaa Tyr Gly Val Ile Gly Ala Ser
 35 40 45
 Gly Ala Gly Lys Ser Thr Leu Ile Arg Cys Val Asn Leu Leu Glu Arg
 50 55 60
 Pro Thr Xaa Gly Gln Arg Xaa Xaa Trp Arg Pro Gly Ala His Arg Ser
 65 70 75 80
 Leu Arg Lys Lys Asn Ser Pro Lys Arg Val Ala Gln Ile Gly Met Ile
 85 90 95
 Phe Leu His Phe Asn Leu Leu Ala Ser Arg Ser Val Phe Gly Asn Val
 100 105 110
 Ala Leu Pro Leu Glu Leu Asp Phe Ser Pro Leu Glu Glu Ile Ser Arg
 115 120 125
 Arg Val Ser Glu Leu Leu Asp Leu Val Gly Leu Gly Asp Lys His Asp
 130 135 140
 Ser Tyr Pro Ala Asn Leu Ser Gly Gly Leu Tyr Leu Arg Val Ser Ile
 145 150 155 160
 Ala Arg Ala Leu Ala Asn Asn Pro Lys Val Leu Leu Cys Asp Glu Ser
 165 170 175
 Ser Ser Ala Leu Tyr Pro Ala Thr Thr Arg Ser Ile Leu Glu Leu
 180 185 190

<210> 5798

<211> 161

<212> PRT

<213> Enterobacter cloacae

<400> 5798

Lys Asp Ile Asn Arg Arg Leu Gly Leu Thr Ile Leu Leu Ile Thr His
 1 5 10 15
 Glu Met Asp Val Val Lys Arg Ile Cys Asp Cys Val Ala Val Ile Ser
 20 25 30
 Asn Gly Glu Leu Ile Glu Gln Asp Thr Val Ser Glu Val Phe Ser His
 35 40 45
 Pro Lys Thr Pro Leu Ala Gln Gln Phe Ile Gln Ser Thr Leu His Leu
 50 55 60
 Asp Ile Pro Glu Asp Tyr Leu Glu Arg Leu Lys Thr Glu Ala Val Ala
 65 70 75 80
 Asp Ser Val Pro Met Leu Arg Met Glu Phe Thr Gly Gln Ser Val Asp
 85 90 95
 Ala Pro Leu Leu Ser Glu Thr Ala Arg Arg Phe Asn Val Asn Asn Asn
 100 105 110
 Ile Ile Ser Ala Gln Met Asp Tyr Ala Gly Gly Val Lys Phe Gly Ile
 115 120 125
 Met Leu Thr Glu Met His Gly Thr Gln Glu Glu Thr Gln Ala Ala Ile
 130 135 140
 Ala Trp Leu Gln Glu His His Val Lys Val Glu Val Leu Gly Tyr Val
 145 150 155 160

<210> 5799

<211> 205

<212> PRT

<213> Enterobacter cloacae

<220>

<221> UNSURE

<222> (205)

<400> 5799

Arg Tyr Trp Val Met Ser Glu Pro Met Met Trp Leu Leu Val Arg Gly
 1 5 10 15
 Val Trp Glu Thr Leu Ala Met Thr Phe Val Ser Gly Phe Phe Gly Phe
 20 25 30
 Val Ile Gly Leu Pro Val Gly Val Leu Leu Tyr Val Thr Arg Pro Gly
 35 40 45
 Gln Ile Ile Glu Asn Ala Lys Leu Tyr Arg Thr Leu Ser Ala Leu Val
 50 55 60
 Asn Ile Phe Arg Ser Ile Pro Phe Ile Ile Leu Leu Val Trp Met Ile
 65 70 75 80
 Pro Phe Thr Arg Val Ile Val Gly Thr Ser Ile Gly Leu Gln Ala Ala
 85 90 95
 Ile Val Pro Leu Thr Val Gly Ala Ala Pro Phe Ile Ala Arg Met Val
 100 105 110
 Glu Asn Ala Leu Leu Glu Ile Pro Thr Gly Leu Ile Glu Ala Ser Arg
 115 120 125
 Ala Met Gly Ala Thr Pro Met Gln Ile Val Arg Lys Val Leu Leu Pro
 130 135 140
 Glu Ala Leu Pro Gly Leu Val Asn Ala Ala Thr Ile Thr Leu Ile Thr
 145 150 155 160
 Leu Val Gly Tyr Ser Ala Met Gly Gly Ala Val Gly Ala Gly Gly Leu
 165 170 175
 Gly Gln Ile Gly Tyr Gln Tyr Gly Tyr Ile Gly Tyr Asn Ala Thr Val
 180 185 190
 Met Asn Thr Val Leu Val Leu Leu Val Val Leu Val Xaa
 195 200 205

<210> 5800

<211> 210

<212> PRT

<213> Enterobacter cloacae

<400> 5800

Ala Leu Tyr Cys Ala Ala Ile His Glu Ile Leu Ala Glu Gln Ala Phe
 1 5 10 15
 Phe Arg Ser Lys Pro Val Ala Lys Ser Val Pro Ala Ile Phe Leu Asp
 20 25 30
 Arg Asp Gly Thr Ile Asn Val Asp His Gly Tyr Val His Glu Ile Asp
 35 40 45
 Glu Phe Glu Phe Ile Glu Gly Val Ile Asp Ala Met Arg Gln Leu Lys
 50 55 60
 Glu Met Gly Tyr Ala Leu Val Val Val Thr Asn Gln Ser Gly Ile Ala
 65 70 75 80
 Arg Gly Lys Phe Thr Glu Ala Gln Phe Glu Thr Leu Thr Glu Trp Met
 85 90 95
 Asp Trp Ser Leu Ala Asp Arg Gly Val Asp Leu Asp Gly Ile Tyr Tyr
 100 105 110
 Cys Pro His His Pro Gln Gly Ser Val Glu Ala Tyr Arg Gln Thr Cys
 115 120 125
 Asp Cys Arg Lys Pro His Pro Gly Met Phe Ile Ser Ala Gln Glu Phe
 130 135 140
 Leu His Ile Asp Met Ala Ala Ser Tyr Met Val Gly Asp Lys Leu Glu
 145 150 155 160
 Asp Met Gln Ala Ala Thr Ala Ala Gly Val Gly Thr Lys Val Leu Val
 165 170 175
 Arg Thr Gly Lys Pro Val Thr Pro Glu Ala Glu Asn Ala Ala Asp Trp
 180 185 190
 Val Ile Thr Ser Leu Ala Glu Leu Pro Lys Glu Ile Lys Lys His Gln
 195 200 205

Lys

210

<210> 5801

<211> 175

<212> PRT

<213> Enterobacter cloacae

<400> 5801

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Arg Arg Trp Lys Phe Ser Tyr Tyr Pro Leu Tyr Cys Pro Ile Pro Leu
1      5      10      15
Pro Arg Gly His Tyr Gly Leu Asn Thr Ser Met Ser Gln Thr Glu Thr
      20      25      30
Thr Ala Pro Ser Lys Phe Ser Leu Leu Pro Gly Ser Ile Thr Arg Phe
      35      40      45
Phe Leu Leu Leu Ile Val Val Leu Leu Val Thr Met Gly Val Met Ile
      50      55      60
Gln Ser Ala Val Asn Thr Trp Leu Lys Asp Lys Ser Tyr Gln Ile Val
65      70      75      80
Asp Ile Thr His Ala Val His Lys Arg Ile Asp Thr Trp Arg Tyr Ala
      85      90      95
Thr Trp Gln Ile Tyr Asp Asn Ile Ala Ala Pro Ala Thr Ser Ser
      100     105     110
Gly Glu Gly Leu Gln Glu Thr Arg Leu Lys Gln Asp Val Tyr Tyr Leu
      115     120     125
Glu Lys Pro Gln Arg Lys Thr Glu Ala Leu Ile Phe Gly Ser His Asp
      130     135     140
Ser Ala Thr Leu Glu Ile Tyr Gln Arg Ile Ser Ser Tyr Leu Asp Thr
145     150     155     160
Leu Trp Gly Pro Glu Asn Val Thr Val Val Pro Cys Ile Thr
      165     170     175

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<210> 5802

<211> 143

<212> PRT

<213> Enterobacter cloacae

<400> 5802

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Leu Leu Ile Lys Asp Glu Leu Phe Ile Gln Glu Ile Lys Met Lys Gln
1      5      10      15
Thr Arg Leu Val Leu Ala Gly Ile Leu Val Leu Ala Pro Val Phe Ser
      20      25      30
Ala Met Ala Ala Pro Gln Ala Ala Thr Gly Cys Glu Ala Lys Arg Gln
      35      40      45
Asn Ile Glu Gln Gln Ile Glu His Ala Arg Thr His Asn Asn Asp His
50      55      60
Arg Val Ala Gly Leu Gln Lys Ala Leu Ser Glu Leu Asn Ala Asn Cys
65      70      75      80
Thr Glu Glu Gly Leu Arg Ala Glu Arg Gln Ala Asp Val Arg Glu Lys
      85      90      95
Glu Arg Lys Val Glu Glu Arg Arg Gln Glu Leu Ala Glu Ala Gln Ala
      100     105     110
Asp Gly Arg Thr Asp Lys Ile Ser Lys Lys Glu Arg Lys Leu Lys Asp
      115     120     125
Ala Gln Ala Glu Leu Asp Glu Ala Arg Ser Val Leu Asn Lys
      130     135     140

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<210> 5803

<211> 218

<212> PRT

<213> Enterobacter cloacae

<400> 5803

Arg Thr Gln Pro Met Ala Gly Phe Leu Leu Phe Cys Pro Arg Tyr Ala
 1 5 10 15
 Leu Asn Phe Pro Phe Cys Gln Val Ile Val Ile Phe Phe Pro Asp Asn
 20 25 30
 Glu Asn Asp Met Thr Leu Ser Ala Leu Lys Ala Gly Ser Leu Leu Leu
 35 40 45
 Leu Met Ile Leu Phe Tyr Thr Gly Leu Phe Thr Ser Asp Arg Val Thr
 50 55 60
 Trp Leu Met Glu Val Thr Pro Val Ile Ile Ile Ile Pro Leu Leu Leu
 65 70 75 80
 Ala Thr His Arg Arg Tyr Pro Leu Thr Pro Leu Leu Tyr Thr Leu Val
 85 90 95
 Phe Phe His Ala Ile Ile Leu Met Val Gly Gly Met Tyr Thr Tyr Ala
 100 105 110
 Lys Val Pro Val Gly Phe Glu Val Gln Glu Met Leu Gly Leu Ser Arg
 115 120 125
 Asn Pro Tyr Asp Lys Leu Gly His Phe Phe Gln Gly Leu Val Pro Ala
 130 135 140
 Leu Ala Ala Arg Glu Ile Leu Leu Arg Gly Gly Tyr Val Arg Gly His
 145 150 155 160
 Lys Met Thr Gly Phe Leu Val Cys Cys Val Ala Leu Ala Ile Ser Ala
 165 170 175
 Thr Phe Asn Ser Leu Ser Gly Gly Leu Leu Trp Arg Trp Asp Arg Val
 180 185 190
 Arg Met Ile Phe Trp Gly Arg Arg Ala Ile His Gly Ile Pro Ser Leu
 195 200 205
 Ile Cys Phe Ala Arg Cys Leu Val Arg
 210 215

<210> 5804

<211> 63

<212> PRT

<213> Enterobacter cloacae

<400> 5804

Leu Ile Glu Trp Trp Ala Ala Leu Ala Met Gly Gln Gly Ala Asp Asp
 1 5 10 15
 Phe Leu Gly Thr Gln Gly Asp Pro Trp Asp Thr Gln Ser Asp Met Phe
 20 25 30
 Cys Ala Leu Leu Gly Ala Leu Thr Thr Val Leu Ile Leu Gly Arg Phe
 35 40 45
 His Gln Arg Gln Leu Arg Arg Leu Asn Val Asp Ser Ala Leu
 50 55 60

<210> 5805

<211> 123

<212> PRT

<213> Enterobacter cloacae

<400> 5805

Met Cys Pro Pro Arg Leu Leu Lys Thr Cys Gly Ala Glu Ile Ala Ile
 1 5 10 15
 Ser Ile Pro Ala His Val Arg Leu Val Met Val Ala Glu Ala Pro Pro
 20 25 30
 Ala Leu Asn Glu Pro Leu Ile Glu Asp Val Leu Arg Ser Leu Lys Val
 35 40 45
 Thr His Asp Gln Val Leu Gln Leu Ala Pro Glu Ser Val Ala Met Leu
 50 55 60
 Pro Ser Asp Ser Arg Cys Asn Ser Trp Arg Ile Gly Ala Val Asp Glu
 65 70 75 80

Leu Pro Leu Glu Gly Ser Gln Ile Ser Ser Pro Ala Leu Asp Glu Leu
 85 90 95
 Lys Ala Asn Pro Lys Ala Arg Ser Ala Leu Trp Gln Gln Ile Cys Glu
 100 105 110
 Tyr Glu His Asp Phe Phe Pro His Asp Gly
 115 120

<210> 5806

<211> 164

<212> PRT

<213> Enterobacter cloacae

<400> 5806

Lys Pro Thr Gln Lys Arg Val Ala Arg Tyr Gly Asn Lys Phe Ala Asn
 1 5 10 15
 Met Asn Thr Ile Ser Ser Leu Thr Thr Ala Asp Leu Thr Thr Ala Phe
 20 25 30
 Ala Ile Glu Thr Arg Ala His Ala Phe Pro Trp Ser Glu Lys Thr Phe
 35 40 45
 Ala Ser Asn Gln Gly Glu Arg Tyr Leu Asn Leu Arg Leu Asp Val Asp
 50 55 60
 Gly Ala Met Ala Ala Phe Ala Ile Thr Gln Val Val Leu Asp Glu Ala
 65 70 75 80
 Thr Leu Phe Asn Ile Ala Val Asp Pro Ala Tyr Gln Arg Arg Gly Leu
 85 90 95
 Gly Arg Glu Leu Leu Glu His Leu Ile His Glu Leu Glu Thr Arg Asp
 100 105 110
 Val Phe Thr Leu Trp Leu Glu Val Arg Ala Ser Asn Val Ala Ala Ile
 115 120 125
 Ala Leu Tyr Glu Ser Leu Gly Phe Asn Glu Ala Thr Ile Arg Arg Asn
 130 135 140
 Tyr Tyr Pro Thr Ala Glu Gly Arg Glu Asp Ala Ile Ile Met Ala Leu
 145 150 155 160
 Pro Ile Gly

<210> 5807

<211> 117

<212> PRT

<213> Enterobacter cloacae

<400> 5807

Glu Glu Leu Ile Met Thr Leu Ser Pro Tyr Leu Gln Glu Val Ala Lys
 1 5 10 15
 Arg Arg Thr Phe Ala Ile Ile Ser His Pro Asp Ala Gly Lys Thr Thr
 20 25 30
 Ile Thr Glu Lys Val Leu Leu Phe Gly Gln Ala Ile Gln Thr Ala Gly
 35 40 45
 Thr Val Lys Gly Arg Gly Ser Ser Gln His Ala Lys Ser Asp Trp Met
 50 55 60
 Glu Met Glu Lys Gln Arg Gly Ile Ser Ile Thr Thr Ser Val Met Gln
 65 70 75 80
 Phe Pro Tyr His Asp Cys Leu Val Asn Leu Leu Asp Thr Pro Gly His
 85 90 95
 Glu Asp Phe Ser Glu Asp Thr Tyr Arg Thr Leu Thr Gly Pro Glu Val
 100 105 110
 Phe Thr Ser Asp
 115

<210> 5808

<211> 262

<212> PRT

<213> Enterobacter cloacae

<400> 5808

Ala Ser Thr Arg Arg Leu Ser Ala Val Thr Thr Thr Pro Pro Gln Arg
 1 5 10 15
 Asp Val Lys Thr Pro Leu Ser Trp Leu Cys Arg Leu Asp Asn Glu Asn
 20 25 30
 Lys Val Val Thr Met Lys Trp Asp Trp Ile Phe Phe Asp Ala Asp Glu
 35 40 45
 Thr Leu Phe Thr Phe Asp Ser Phe Gly Gly Leu Gln Arg Met Phe Leu
 50 55 60
 Asp Tyr Ser Val Thr Phe Thr Ala Glu Asp Phe Gln Asp Tyr Gln Ala
 65 70 75 80
 Val Asn Lys Pro Leu Trp Val Asp Tyr Gln Asn Gly Ala Ile Thr Ala
 85 90 95
 Leu Gln Leu Gln His Gln Arg Phe Asp Val Trp Ala Glu Arg Leu Asn
 100 105 110
 Val Ser Pro Gly Val Leu Asn Glu Ala Phe Leu Asn Ala Met Ala Asp
 115 120 125
 Ile Cys Ala Pro Leu Pro Gly Ala Val Ser Leu Leu Asp Ser Leu Lys
 130 135 140
 Gly Lys Val Lys Leu Gly Ile Ile Thr Asn Gly Phe Thr Ala Leu Gln
 145 150 155 160
 Gln Ile Arg Leu Glu Arg Thr Gly Leu Arg Asp His Phe Asp Ala Leu
 165 170 175
 Val Ile Ser Glu Glu Val Gly Val Pro Lys Pro Asp Pro Arg Ile Phe
 180 185 190
 Asp Tyr Ala Leu Ala Gln Ala Gly Asn Pro Asp Arg Asp Arg Val Leu
 195 200 205
 Met Val Gly Asp Thr Ala Glu Ser Asp Ile Leu Gly Gly Met Arg Ser
 210 215 220
 Gly Leu Ser Thr Val Trp Leu Asn Ala His Gly Arg Met Leu Pro Glu
 225 230 235 240
 Gly Ile Glu Pro Thr Trp Thr Val Thr Ser Leu Asn Glu Leu Glu Gln
 245 250 255
 Leu Leu Cys Lys Gln
 260

<210> 5809

<211> 232

<212> PRT

<213> Enterobacter cloacae

<400> 5809

Lys Pro Asn Asp Arg Leu Leu Lys Arg Ser Val Phe Phe Met Ser Arg
 1 5 10 15
 Ser Leu Leu Thr Asn Glu Thr Ser Glu Leu Asp Leu Leu Asp Gln Arg
 20 25 30
 Pro Phe Asp Gln Thr Asp Phe Asp Ile Leu Lys Ser Tyr Glu Ala Val
 35 40 45
 Val Asp Gly Leu Ala Met Leu Ile Gly Ser His Cys Glu Ile Val Leu
 50 55 60
 His Ser Leu Gln Asp Leu Lys Cys Ser Ala Ile Arg Ile Ala Asn Gly
 65 70 75 80
 Glu His Thr Gly Arg Lys Ile Gly Ser Pro Ile Thr Asp Leu Ala Leu
 85 90 95
 Arg Met Leu His Asp Met Thr Gly Ala Asp Ser Ser Val Ser Lys Cys
 100 105 110
 Tyr Phe Thr Arg Ala Lys Ser Gly Val Leu Met Lys Ser Glu Thr Ile
 115 120 125

Ala Ile Arg Asn Arg Glu His Arg Val Ile Gly Leu Leu Cys Ile Asn
 130 135 140
 Met Asn Leu Asp Val Pro Phe Ser Gln Ile Met Ser Thr Phe Ile Pro
 145 150 155 160
 Pro Glu Thr Pro Asp Val Gly Ser Ser Val Asn Phe Ala Ser Ser Val
 165 170 175
 Glu Asp Leu Val Thr Gln Thr Leu Glu Phe Thr Ile Glu Glu Val Asn
 180 185 190
 Ala Asp Arg Asn Val Ser Asn Asn Ala Lys Asn Arg Gln Ile Val Leu
 195 200 205
 Asn Leu Tyr Glu Lys Gly Ile Leu Ile Ser Lys Met Pro Ser Thr Gln
 210 215 220
 Trp Pro Asp Arg Leu Asn Ile Ser
 225 230

<210> 5810

<211> 228

<212> PRT

<213> Enterobacter cloacae

<400> 5810

Arg Pro Glu Ile Arg Tyr Ala Leu Gly Ser Phe Leu Gly Arg Tyr Met
 1 5 10 15
 Glu Asn Ser Leu Lys Glu Gln Glu Lys Leu Gly Ile Lys Leu Asp Lys
 20 25 30
 Asn Gln Leu Ile Ala Gly Val Gln Asp Ala Phe Ala Asp Lys Ser Lys
 35 40 45
 Leu Ser Asp Gln Glu Ile Glu Gln Thr Leu Gln Ala Phe Glu Ala Arg
 50 55 60
 Val Lys Gly Ala Ala Gln Thr Lys Met Glu Ala Asp Ala Lys Asp Asn
 65 70 75 80
 Glu Ala Lys Gly Lys Ala Tyr Arg Asp Lys Phe Ala Lys Glu Lys Gly
 85 90 95
 Val Lys Thr Ser Ser Thr Gly Leu Ile Tyr Lys Val Glu Lys Glu Gly
 100 105 110
 Thr Gly Asp Ala Pro Lys Asp Ser Asp Thr Val Val Val Asn Tyr Lys
 115 120 125
 Gly Thr Leu Ile Asp Gly Lys Glu Phe Asp Asn Ser Tyr Thr Arg Gly
 130 135 140
 Glu Pro Leu Ser Phe Arg Leu Asp Gly Val Ile Pro Gly Trp Thr Glu
 145 150 155 160
 Gly Leu Lys Asn Ile Lys Lys Gly Gly Lys Ile Lys Leu Val Ile Pro
 165 170 175
 Pro Asp Leu Ala Tyr Gly Lys Thr Gly Val Pro Gly Ile Pro Ala Asn
 180 185 190
 Ser Thr Leu Val Phe Asp Val Glu Leu Leu Asp Ile Lys Pro Ala Pro
 195 200 205
 Lys Ala Asp Ala Lys Thr Asp Ala Pro Ala Asp Asp Lys Ala Ala Ala
 210 215 220
 Ala Lys Lys
 225

<210> 5811

<211> 443

<212> PRT

<213> Enterobacter cloacae

<400> 5811

Thr Ser Pro Cys Asn Leu Ser Arg Ser Phe Gly Pro Leu Val Lys Ile
 1 5 10 15
 Ala Thr Ala Thr Asp Arg Leu Lys Ala Ile Leu Ile His Gly Val Asn

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<210> 5812
<211> 223
<212> PRT
<213> Enterobacter cloacae
```

Gly Ser Thr Met Tyr Gln His His Asn Trp Gln Gly Ala Leu Leu Asp

```

1           5           10           15
Tyr Pro Val Ser Lys Val Val Cys Val Gly Ser Asn Tyr Ala Lys His
20           25           30
Ile Gln Glu Met Gly Ser Ala Val Pro Glu Glu Pro Val Leu Phe Ile
35           40           45
Lys Pro Glu Thr Ala Leu Cys Asp Ile Arg Gln Pro Leu Val Leu Pro
50           55           60
Gln Gly Leu Gly Ser Val His His Glu Val Glu Leu Ala Val Leu Ile
65           70           75           80
Gly Ala Thr Leu Arg Gln Ala Thr Glu Glu His Val Glu Lys Ala Ile
85           90           95
Ala Gly Tyr Gly Val Ala Leu Asp Leu Thr Leu Arg Asp Val Gln Gly
100          105          110
Lys Met Lys Lys Ala Gly Gln Pro Trp Glu Lys Ala Lys Gly Phe Asp
115          120          125
Asn Ser Cys Pro Ile Ser Gly Phe Ile Pro Val Ser Glu Phe Thr Asp
130          135          140
Asp Pro Gln Asn Thr Pro Leu Ser Leu Lys Val Asn Gly Glu Ile Arg
145          150          155          160
Gln Gln Gly Thr Thr Ala Asp Met Ile His Lys Ile Val Pro Leu Ile
165          170          175
Ala Tyr Met Ser Arg Phe Phe Thr Leu Lys Pro Gly Asp Val Ile Leu
180          185          190
Thr Gly Thr Pro Glu Gly Val Gly Pro Leu Leu Ser Gly Asp Glu Leu
195          200          205
Asp Val Ser Phe Asn Gly Leu Ser Leu Lys Thr Arg Val Leu
210          215          220

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<210> 5813

<211> 134

<212> PRT

<213> Enterobacter cloacae

<400> 5813

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His Pro Gly Leu Thr Gln Phe Ala Ile Asn Arg Asn Thr Ser Pro Arg
1           5           10           15
Tyr Ser Glu Glu Tyr Gln Ala Cys Tyr Ser Gln Glu Tyr Ile Glu Ala
20           25           30
Ser Asn His Pro Leu Ile Gln Ser Lys Asn Met Phe Cys Val Ile Tyr
35           40           45
Arg Ser Thr Ser Arg Asp Gln Thr Tyr Leu Tyr Val Glu Lys Lys Asp
50           55           60
Asp Phe Ser Arg Val Pro Glu Glu Leu Met Lys Ser Phe Gly Arg Pro
65           70           75           80
Gln Leu Ala Met Leu Leu Pro Leu Asp Gly Arg Lys Lys Leu Val Asn
85           90           95
Ala Asp Leu Glu Lys Val Lys Lys Ala Leu Thr Glu Gln Gly Tyr Tyr
100          105          110
Leu Gln Leu Pro Pro Pro Pro Glu Asn Leu Leu Lys Gln His Leu Glu
115          120          125
Val Ser Gly Lys Lys
130

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<210> 5814

<211> 242

<212> PRT

<213> Enterobacter cloacae

<400> 5814

```

Gln Gly Ile Ser Met Ala Arg Ile Ile Val Val Thr Ser Gly Lys Gly
1           5           10           15

```

Gly Val Gly Lys Thr Thr Ser Ser Ala Ala Ile Ala Thr Gly Leu Ala
 20 25 30
 Gln Lys Gly Lys Lys Thr Val Val Ile Asp Phe Asp Ile Gly Leu Arg
 35 40 45
 Asn Leu Asp Leu Ile Met Gly Cys Glu Arg Arg Val Val Tyr Asp Phe
 50 55 60
 Val Asn Val Ile Gln Gly Asp Ala Thr Leu Asn Gln Ala Leu Ile Lys
 65 70 75 80
 Asp Lys Arg Thr Glu Asn Leu Tyr Ile Leu Pro Ala Ser Gln Thr Arg
 85 90 95
 Asp Lys Asp Ala Leu Thr Arg Glu Gly Val Glu Lys Val Leu Asp Asp
 100 105 110
 Leu Lys Lys Met Glu Phe Asp Phe Val Val Cys Asp Ser Pro Ala Gly
 115 120 125
 Ile Glu Thr Gly Ala Leu Met Ala Leu Tyr Phe Ala Asp Glu Ala Ile
 130 135 140
 Ile Thr Thr Asn Pro Glu Val Ser Ser Val Arg Asp Ser Asp Arg Ile
 145 150 155 160
 Leu Gly Ile Leu Ala Ser Lys Ser Arg Arg Ala Glu Asn Gly Gln Glu
 165 170 175
 Pro Ile Lys Glu His Leu Leu Leu Thr Arg Tyr Asn Pro Gly Arg Val
 180 185 190
 Asn Lys Gly Asp Met Leu Ser Met Glu Asp Val Leu Glu Ile Leu Arg
 195 200 205
 Ile Lys Leu Val Gly Val Ile Pro Glu Asp Gln Ser Val Leu Arg Ala
 210 215 220
 Ser Asn Gln Gly Glu Pro Leu Ile Leu Asp Thr Gln Ala Glu Ala Gly
 225 230 235 240
 Lys Ala

<210> 5815

<211> 269

<212> PRT

<213> Enterobacter cloacae

<400> 5815

Arg Val Val Ala Cys Leu Asn Ile Leu Leu Thr Ile Thr Cys Leu Ile
 1 5 10 15
 Leu Phe Gly Ile Ser Arg Arg Cys Val Ala Val Asn Ser Lys Leu Ser
 20 25 30
 Lys Ala Arg Met Ser Asn Thr Pro Ile Glu Leu Lys Gly Ser Ser Phe
 35 40 45
 Thr Leu Ser Val Val His Leu His Asp Ala Lys Pro Glu Val Ile Arg
 50 55 60
 Gln Ala Leu Glu Asp Lys Ile Ala Gln Ala Pro Ala Phe Leu Lys His
 65 70 75 80
 Ala Pro Val Val Val Asn Val Ser Asp Leu Glu Gly Pro Val Asn Trp
 85 90 95
 Lys Arg Leu Gln Gln Ala Val Thr Ser Thr Gly Leu Arg Ile Val Gly
 100 105 110
 Ile Ser Gly Cys Lys Asp Ala Glu Leu Lys Ala Glu Ile Glu Arg Ala
 115 120 125
 Gly Leu Pro Leu Leu Asn Glu Gly Lys Glu Lys Ala Pro Arg Ala Thr
 130 135 140
 Pro Ala Thr Val Pro Ala Pro Pro Pro Pro Ala Gln Asn Val Ala Pro
 145 150 155 160
 Val Thr Lys Thr Arg Leu Ile Asp Leu Pro Val Arg Ser Gly Gln Arg
 165 170 175
 Ile Tyr Ala Pro Asn Cys Asp Leu Ile Val Thr Ser His Val Ser Ala
 180 185 190

Gly Ala Glu Leu Ile Ala Asp Gly Asn Ile His Val Tyr Gly Met Met
 195 200 205
 Arg Gly Arg Ala Leu Ala Gly Ala Ser Gly Asp Arg Glu Ala Gln Ile
 210 215 220
 Phe Cys Thr His Leu Thr Ala Glu Leu Val Ser Ile Ala Gly Glu Tyr
 225 230 235 240
 Trp Leu Ser Asp Lys Ile Pro Ala Glu Phe Tyr Gly Lys Ala Ala Arg
 245 250 255
 Leu Gln Leu Ala Asp Asn Ala Leu Thr Val Gln Pro
 260 265

<210> 5816

<211> 616

<212> PRT

<213> Enterobacter cloacae

<400> 5816

Phe Val Gln Leu Ile Asn Leu Leu Ser Ile Arg Ser Ile Arg Arg Trp
 1 5 10 15
 Leu Asn Arg Ser His Gly Leu Met Asn Arg Lys Ile Tyr Asn Asn Val
 20 25 30
 Lys Ile Phe Met Ile Val Leu Ala Leu Ser Leu Ile Thr Ile Pro Phe
 35 40 45
 Ser Arg Tyr Ile Ser Pro Arg Ala Ile Val Asn Glu Asn Asp Val Tyr
 50 55 60
 Leu Ala Trp Leu Pro Leu Ser Ala Met Leu Ala Ile Val Leu Leu Phe
 65 70 75 80
 Gly Arg Arg Ala Ile Ile Pro Leu Leu Ile Gly Phe Ser Val Thr Asn
 85 90 95
 Ile Tyr Tyr Phe Asp Leu Ala Leu Leu Gln Ser Ser Val Leu Leu Ile
 100 105 110
 Cys Gln Thr Phe Ala Val Phe Ala Ala Cys Gly Val Ile Arg Leu Met
 115 120 125
 Leu Gly Lys Arg Trp Arg His Ser Ile Pro Asn Lys Tyr Ile Gly Ile
 130 135 140
 Arg Ile Phe Trp Leu Gly Phe Val Val Pro Val Gly Ile Lys Leu Ser
 145 150 155 160
 Met Tyr Leu Ala Gly Tyr Leu Phe Asp Phe Pro Val Thr Ile Ser Ser
 165 170 175
 Tyr Phe Gly Glu Gly Ser Ala Ile Tyr Asn Val Ile Asp Ile Gln Ser
 180 185 190
 Leu Ile Cys Ala Ala Leu Ile Phe Thr Met Met Phe Tyr Tyr Pro Leu
 195 200 205
 Arg Met Ile Ile Asn Pro Arg Tyr Ala Arg Thr Phe Trp Arg Arg Ser
 210 215 220
 Val Lys Pro Leu Phe Cys His Lys Lys Val Leu Phe Ile Val Val Trp
 225 230 235 240
 Leu Met Leu Leu Val Ser Met Ile Ala Ile Leu Cys Ala Pro Phe Glu
 245 250 255
 Ser Gln Phe Ile Ala Gly Tyr Leu Met Pro Ile Val Phe Ile Leu Phe
 260 265 270
 Thr Leu Gly Ile Gly Arg Leu Ser Tyr Ala Leu Ile Ser Leu Leu Trp
 275 280 285
 Ala Ala Ser Ala Leu Met Leu Leu Thr Tyr Asn Tyr Asn Phe Leu Asn
 290 295 300
 Gly Val Glu Ser Gly His Ser Leu Ser Phe Ile Leu Ser Val Leu Ile
 305 310 315 320
 Ser Phe Ala Ile Cys Leu Leu Tyr Met Ser Arg Ile Tyr Gln Lys Ser
 325 330 335
 Glu Trp Leu Lys Gln Gly Trp Gln Glu Arg Ala Leu Thr Asp Pro Leu
 340 345 350


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Thr Gly Leu Pro Asn Ile Arg Ala Leu Glu Val Phe Leu Gln His His
355 360
Pro Glu Ala Lys Ile Cys Cys Leu Arg Leu Asp Asn Leu Glu Phe Leu
370 375 380
Ser Arg His Tyr Gly Ile Leu Met Arg Val His Cys Lys Lys Met Ile
385 390 395 400
Thr Ala Ser Leu Gln Pro Leu Leu Gln Lys Asp Glu Lys Leu Phe Gln
405 410 415
Leu Pro Gly Ser Glu Leu Val Val Val Leu Leu Gly Pro Gly Thr Ala
420 425 430
Glu Arg Leu Gln Tyr Met Val Asp His Leu Asn Ser Arg Lys Ile Val
435 440 445
Trp Asn Lys Thr Glu Leu Asp Ile Glu Phe Gly Ala Ser Trp Gly Glu
450 455 460
Val Pro Asp Gly Glu Ser Leu His His Thr Leu Gly Gln Leu Ser Trp
465 470 475 480
Leu Ser Glu Gln Ser Cys Gly Gly His Asn Val Leu Ala Leu Thr Asn
485 490 495
Ser Leu Asp Asp Val Ser Gly Gln Thr Thr Asp Arg Val Leu Met Leu
500 505 510
Ala Arg Ile Lys Arg Ala Leu Asp Ile Gly Gly Leu His Leu Tyr Ala
515 520 525
Gln Pro Ile His Thr Ala Arg Gly Glu Arg Tyr Phe Asp Ile Pro Ser
530 535 540
Thr Leu Glu Ser Asp Gly Glu Ile Leu His Pro Asp Arg Leu Ile Pro
545 550 555 560
Pro Met Ala Gln Phe Asn Leu Asn Pro Arg Phe Asp Ser Asn Phe Trp
565 570 575
Asn Lys Cys Gly Cys Arg Phe Ala Thr Thr Pro Leu Glu Leu Ile Glu
580 585 590
Ser Pro Pro Arg Gln Thr Asp Ala Leu Asn Leu Lys Gln His Lys Met
595 600 605
Gly Ala Lys Phe Phe Ala Phe
610 615

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<210> 5817

<211> 502

<212> PRT

<213> Enterobacter cloacae

<400> 5817

```

Arg Ala Gly Phe Val Glu Asn Val Ala Ala Thr Ala Gln Thr Val Glu
1 5 10 15
Gln Leu Leu Lys Leu Gly Phe Thr Val Ala Ile Glu Ser Gly Ala Gly
20 25 30
Thr Leu Ala Ser Phe Asp Asp Glu Ala Phe Thr Gln Ala Gly Ala Asp
35 40 45
Val Val Asp Gly Ala Glu Val Trp Gln Ser Pro Ile Ile Leu Lys Val
50 55 60
Asn Ala Pro Glu Glu Gly Glu Ile Glu Leu Leu Asn Ala Gly Thr Thr
65 70 75 80
Leu Val Ser Phe Val Trp Pro Ala Gln Asn Pro Glu Leu Met Glu Lys
85 90 95
Leu Ala Ala Arg Gly Val Thr Val Met Ala Met Asp Ser Val Pro Arg
100 105 110
Ile Ser Arg Ala Gln Ser Leu Asp Ala Leu Ser Ser Met Ala Asn Ile
115 120 125
Ala Gly Tyr Arg Ala Ile Val Glu Ala Ala His Glu Phe Gly Arg Phe
130 135 140
Phe Thr Gly Gln Ile Thr Ala Ala Gly Lys Val Pro Pro Ala Lys Val
145 150 155 160

```

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Met Val Ile Gly Ala Gly Val Ala Gly Leu Ala Ala Ile Gly Ala Ala
      165      170      175
Asn Ser Leu Gly Ala Ile Val Arg Ala Phe Asp Thr Arg Pro Glu Val
      180      185      190
Lys Glu Gln Val Gln Ser Met Gly Ala Glu Phe Leu Glu Leu Asp Phe
      195      200      205
Lys Glu Glu Ala Gly Ser Gly Asp Gly Tyr Ala Lys Val Met Ser Glu
      210      215      220
Ala Phe Ile Lys Ala Glu Met Ala Leu Phe Ala Ala Gln Ala Lys Glu
      225      230      235
Val Asp Ile Ile Val Thr Thr Ala Leu Ile Pro Gly Lys Pro Ala Pro
      245      250      255
Lys Leu Ile Thr Arg Glu Met Val Asp Ser Met Gln Pro Gly Ser Val
      260      265      270
Ile Val Asp Leu Ala Ala Gln Asn Gly Gly Asn Cys Glu Tyr Thr Val
      275      280      285
Pro Asn Gln Val Thr Thr Thr Ala Asn Gly Val Lys Val Ile Gly Tyr
      290      295      300
Thr Asp Leu Pro Gly Arg Leu Pro Thr Gln Ser Ser Gln Leu Tyr Gly
      305      310      315
Thr Asn Leu Val Asn Leu Leu Lys Leu Leu Cys Lys Glu Lys Asp Gly
      325      330      335
Asn Ile Thr Val Asp Phe Asp Asp Val Val Val Arg Gly Val Thr Val
      340      345      350
Val Arg Glu Gly Glu Ile Thr Trp Pro Ala Pro Pro Ile Gln Val Ser
      355      360      365
Ala Gln Pro Gln Ala Ala Pro Lys Ala Ala Pro Glu Pro Ala Glu Pro
      370      375      380
Ala Lys Pro Ala Ser Pro Trp Arg Lys Tyr Ala Ile Met Ala Leu Val
      385      390      395
Ile Ile Leu Phe Gly Trp Leu Ala Asp Val Ala Pro Lys Glu Phe Leu
      405      410      415
Gly His Phe Thr Val Phe Ala Leu Ser Cys Val Val Gly Tyr Tyr Val
      420      425      430
Val Trp Asn Val Ser His Ala Leu His Thr Pro Leu Met Ser Val Thr
      435      440      445
Asn Ala Ile Ser Gly Ile Ile Val Val Gly Ala Leu Leu Gln Ile Gly
      450      455      460
His Gly Gly Trp Ile Ser Phe Leu Ser Phe Ile Ala Val Leu Ile Ala
      465      470      475
Ser Ile Asn Ile Phe Gly Gly Phe Thr Val Thr Gln Arg Met Leu Lys
      485      490      495
Met Phe Arg Lys Gly
      500

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<210> 5818

<211> 193

<212> PRT

<213> Enterobacter cloacae

<220>

<221>UNSURE

<222>(13)

<220>

<221>UNSURE

<222>(58)

<220>

<221>UNSURE

<222>(83)

<400> 5818

Gln Arg Gly Asn Leu Ile Trp Thr Trp Tyr Gly Ala Xaa Ile Phe His
 1 5 10 15
 Thr Pro Val Asn Glu Val Ala His Gly Lys Trp Ala Leu Leu Thr Ser
 20 25 30
 Gly Ser Lys Ser Phe His Ile Pro Ala Leu Thr Gly Ala Trp Gly Leu
 35 40 45
 Phe Ala Asp Asp Ala Ser Arg Asn Ala Xaa Leu Asn Ala Leu Lys Gly
 50 55 60
 Arg Asp Gly Leu Ser Ser Leu Ser Val Leu Ala Leu Thr Ala His Ile
 65 70 75 80
 Ala Ala Xaa Arg Gln Gly Glu Pro Trp Leu Asp Ala Leu Arg Thr Tyr
 85 90 95
 Leu Glu Glu Asn Leu Arg Tyr Val Ala Arg Glu Leu Asn Ser Ala Phe
 100 105 110
 Pro Ala Leu Ser Trp Gln Pro Pro Glu Ala Thr Tyr Leu Ala Trp Ile
 115 120 125
 Asp Leu Ser Pro Leu Gly Ile Asp Asp Asn Thr Leu Gln Lys Val Leu
 130 135 140
 Ile Glu Gln Gln Lys Val Ala Ile Met Pro Gly Tyr Thr Tyr Gly Ala
 145 150 155 160
 Glu Gly Lys Gly Tyr Val Arg Leu Asn Ala Gly Cys Pro Arg Ser Lys
 165 170 175
 Leu Glu Gln Gly Val Gln Arg Leu Ile Ala Gly Ile Asn Thr Leu Leu
 180 185 190

<210> 5819

<211> 337

<212> PRT

<213> Enterobacter cloacae

<400> 5819

Pro Ala Lys Ser Ala Thr Met Ile Asp Thr Arg Leu Pro Leu Thr Asp
 1 5 10 15
 Ile His Arg His Leu Asp Gly Asn Ile Arg Ala Gln Thr Ile Leu Asp
 20 25 30
 Leu Gly Arg Gln Phe Asn Leu Thr Leu Pro Ala Glu Thr Leu Glu Thr
 35 40 45
 Leu Ile Pro His Val Gln Val Thr Ser Asn Glu Pro Asp Leu Val Ser
 50 55 60
 Phe Leu Ser Lys Leu Asp Trp Gly Val Lys Met Leu Ala Ser Val Asp
 65 70 75 80
 Ala Cys Arg Arg Val Ala Phe Glu Asn Ile Glu Asp Ala Ala Arg Asn
 85 90 95
 Gly Leu His Tyr Val Glu Leu Arg Phe Ser Pro Gly Tyr Met Ala Met
 100 105 110
 Thr His Asn Leu Pro Val Ala Gly Val Val Glu Ala Val Ile Glu Gly
 115 120 125
 Val Arg Glu Gly Cys Lys Thr Phe Asp Val Gln Ala Arg Leu Ile Gly
 130 135 140
 Ile Met Ser Arg Thr Phe Gly Glu Ala Ala Cys Leu Gln Glu Leu Glu
 145 150 155 160
 Ala Leu Leu Ala His Arg Asp Gln Ile Thr Ala Ile Asp Leu Ala Gly
 165 170 175
 Asp Glu Leu Gly Phe Pro Gly Ser Leu Phe Leu Ser His Phe Asn Arg
 180 185 190
 Ala Arg Asp Ala Gly Trp His Ile Thr Val His Ala Gly Glu Ala Ala
 195 200 205

Gly Pro Glu Ser Ile Trp Gln Ala Ile Arg Glu Leu Gly Ala Glu Arg
 210 215 220
 Ile Gly His Gly Val Lys Ala Ile Glu Asp Arg Ala Leu Met Asp Phe
 225 230 235 240
 Leu Ala Glu Gln Arg Ile Gly Ile Glu Ser Cys Leu Thr Ser Asn Ile
 245 250 255
 Gln Thr Ser Thr Val Ala Ser Leu Ala Gln His Pro Leu Lys Thr Phe
 260 265 270
 Leu Glu His Gly Val Leu Ala Ser Leu Asn Thr Asp Asp Pro Ala Val
 275 280 285
 Gln Gly Val Asp Ile Ile His Glu Tyr Asn Ile Ala Ala Pro Gln Ala
 290 295 300
 Gly Leu Ser Arg Glu Gln Ile Arg Gln Ala Gln Ile Asn Gly Leu Glu
 305 310 315 320
 Ile Ala Phe Leu Ile Phe Thr Thr Arg Ala Glu Arg Ser Thr Leu Cys
 325 330 335
 Val

<210> 5820

<211> 133

<212> PRT

<213> Enterobacter cloacae

<220>

<221> UNSURE

<222> (126)

<400> 5820

Arg Asp Gln Arg Ala Gly Asn Ile Pro Leu Ser Cys Met Ala Gly Ala
 1 5 10 15
 His Glu Phe Arg Gln His Gly Phe His Ala Arg Gln Val Gly His Leu
 20 25 30
 Leu Ala His Val Leu Glu Leu Val Phe Gly Gln Ala Ala Gly Leu Leu
 35 40 45
 Ala Val Gly Ala Ile Val Glu Pro Gln Gln Leu Gly Asn Leu Val Gln
 50 55 60
 Thr Glu Pro Gln Pro Leu Cys Arg Phe His Glu Phe His Pro Asn His
 65 70 75 80
 Val Arg Leu Pro Ile Ala Ala Asp Ala Ala Val Arg Leu Val Arg Phe
 85 90 95
 Pro Gln Gln Ala Leu Ala Leu Ile Glu Ala Asp Cys Leu His Val Asp
 100 105 110
 Pro Gly Arg Leu Gly Lys Asn Ala Asn Gly Gln Val Phe Xaa Ile Ile
 115 120 125
 Phe His Ile Ala
 130

<210> 5821

<211> 99

<212> PRT

<213> Enterobacter cloacae

<400> 5821

Gly Ile Ala Asp Leu Ala Arg Pro Ala Ser Pro Cys Ser Asp Ala Ile
 1 5 10 15
 Asn Gly Gln Glu Thr Phe Pro Phe Arg Ala Trp Gln Ala His Thr Ser
 20 25 30
 Ser Asp Ser Thr Val Ser Met Arg Ala Lys Ser Ala Ile Phe Ser Arg
 35 40 45
 Thr Ser Leu Ser Leu Cys Ser Ala Arg Leu Leu Ala Ser Ser Gln Trp

50		55		60											
Val	Pro	Ser	Ser	Ser	Arg	Asn	Ser	Ser	Ala	Ile	Ser	Ser	Arg	Leu	Asn
65					70					75					80
Pro	Ser	Arg	Cys	Ala	Asp	Phe	Thr	Asn	Phe	Thr	Arg	Thr	Thr	Ser	Ala
			85						90					95	

Ser Pro

<210> 5822
 <211> 113
 <212> PRT
 <213> Enterobacter cloacae

<220>
 <221> UNSURE
 <222> (14)

<220>
 <221> UNSURE
 <222> (72)

<220>
 <221> UNSURE
 <222> (73)

<220>
 <221> UNSURE
 <222> (74)

<220>
 <221> UNSURE
 <222> (75)

<220>
 <221> UNSURE
 <222> (76)

<220>
 <221> UNSURE
 <222> (77)

<220>
 <221> UNSURE
 <222> (78)

<220>
 <221> UNSURE
 <222> (79)

<220>
 <221> UNSURE
 <222> (80)

<220>
 <221> UNSURE
 <222> (81)

<220>
 <221> UNSURE
 <222> (82)

<220>
 <221>UNSURE
 <222>(83)

<220>
 <221>UNSURE
 <222>(84)

<220>
 <221>UNSURE
 <222>(85)

<400> 5822

Pro	Arg	Pro	Pro	Trp	Gln	Lys	Arg	Gln	Trp	Ser	Gly	Phe	Xaa	Asn	Tyr
1				5					10					15	
Phe	Pro	Tyr	Arg	Leu	Thr	Pro	Tyr	Met	Ser	Thr	Glu	Val	Arg	Leu	Arg
			20					25					30		
Tyr	Pro	Ile	Gln	Ile	Gln	Lys	Gly	Gln	Arg	Met	Ser	Glu	Pro	Thr	Lys
		35					40					45			
Arg	Arg	Gly	Ala	Leu	Phe	Ala	Arg	Gly	Leu	Ala	Gly	Ile	Leu	Ala	Ser
	50					55					60				
Thr	Cys	Cys	Leu	Gly	Ala	Leu	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa
65					70					75					80
Xaa	Xaa	Xaa	Xaa	Xaa	Gln	Arg	Phe	Leu	Pro	Leu	Lys	Pro	Pro	Phe	Ile
				85					90					95	
Gly	Leu	Lys	Met	Phe	Phe	Gly	Ser	Gln	Phe	Leu	Pro	Ala	Val	Lys	Glu
			100					105					110		

<210> 5823
 <211> 221
 <212> PRT
 <213> Enterobacter cloacae

<400> 5823

Lys	Glu	Ala	Ser	Glu	Ala	Glu	Asn	Val	Val	Lys	Lys	Lys	Lys	Lys	Lys
1				5					10					15	
Lys	Lys	Lys	Lys	Lys	Lys	Ile	Ile	Ala	Pro	Pro	Gly	Ser	Arg	Ser	Met
			20					25					30		
Gln	Glu	Cys	Arg	Pro	Ala	Arg	Gly	Arg	Arg	Ala	His	Arg	Ala	Val	Leu
		35					40					45			
Leu	Val	Gln	Thr	Tyr	Val	Gly	Pro	Phe	Glu	Phe	Gly	Leu	Asp	Ser	Val
	50					55					60				
Thr	Leu	Leu	Pro	Tyr	Ser	Cys	Thr	Glu	Ser	Ser	Asp	Met	Glu	Asn	Asn
65					70					75					80
Leu	Glu	Asn	Leu	Thr	Ile	Gly	Val	Phe	Ala	Lys	Ala	Ala	Gly	Val	Asn
				85					90					95	
Val	Glu	Thr	Ile	Arg	Phe	Tyr	Gln	Arg	Lys	Gly	Leu	Leu	Arg	Glu	Pro
			100					105					110		
Asp	Lys	Pro	Tyr	Gly	Ser	Ile	Arg	Arg	Tyr	Gly	Glu	Ala	Asp	Val	Val
		115					120					125			
Arg	Val	Lys	Phe	Val	Lys	Ser	Ala	Gln	Arg	Leu	Gly	Phe	Ser	Leu	Asp
	130					135					140				
Glu	Ile	Ala	Glu	Leu	Leu	Arg	Leu	Asp	Asp	Gly	Thr	His	Cys	Glu	Glu
145					150					155					160
Ala	Ser	Ser	Leu	Ala	Glu	His	Lys	Leu	Lys	Asp	Val	Arg	Glu	Lys	Met
				165					170					175	
Ala	Asp	Leu	Ala	Arg	Met	Glu	Thr	Val	Leu	Ser	Glu	Leu	Val	Cys	Ala
			180					185					190		
Cys	His	Ala	Arg	Lys	Gly	Asn	Val	Ser	Cys	Pro	Leu	Ile	Ala	Ser	Leu

195 200 205
 Gln Gly Glu Ala Gly Leu Ala Arg Ser Ala Met Pro
 210 215 220

<210> 5824
 <211> 320
 <212> PRT
 <213> Enterobacter cloacae

<400> 5824
 Arg Lys Leu Ala Pro Ala Leu Ile Thr Gly Asn Thr Ile Val Ile Lys
 1 5 10 15
 Pro Ser Glu Phe Thr Pro Asn Asn Ala Ile Ala Phe Ala Lys Ile Val
 20 25 30
 Asp Glu Ile Gly Leu Pro Lys Gly Val Phe Asn Leu Val Leu Gly Arg
 35 40 45
 Gly Glu Thr Val Gly Gln Glu Leu Ala Gly Asn Pro Lys Val Ala Met
 50 55 60
 Val Ser Met Thr Gly Ser Val Gly Ala Gly Glu Lys Ile Met Ala Ala
 65 70 75 80
 Ala Ala Lys Asn Ile Thr Lys Val Gly Leu Glu Leu Gly Gly Lys Ala
 85 90 95
 Pro Ala Ile Val Met Gly Asp Ala Asp Leu Glu Leu Ala Val Lys Ala
 100 105 110
 Ile Val Asp Ser Arg Val Ile Asn Thr Gly Gln Val Cys Asn Cys Ala
 115 120 125
 Glu Arg Val Tyr Val Gln Lys Gly Ile Tyr Asp Arg Phe Val Asn Arg
 130 135 140
 Leu Gly Glu Ala Met Lys Ala Val Gln Phe Gly Asn Pro Ala Glu Arg
 145 150 155 160
 Thr Asp Ile Ala Met Gly Pro Leu Ile Asn Ala Ala Ala Leu Glu Arg
 165 170 175
 Val Glu Gln Lys Val Ala Arg Ala Val Gln Glu Gly Ala Lys Val Val
 180 185 190
 Leu Gly Gly Lys Ala Ala Glu Gly Lys Gly Tyr Phe Tyr Pro Pro Thr
 195 200 205
 Leu Leu Leu Asp Val Arg Gln Asp Met Ala Ile Met His Glu Glu Thr
 210 215 220
 Phe Gly Pro Val Leu Pro Val Val Ala Phe Asp Thr Leu Glu Glu Ala
 225 230 235 240
 Leu Asn Met Ala Asn Asp Ser Asp Tyr Gly Leu Thr Ser Ser Val Tyr
 245 250 255
 Thr Gln Asp Leu Asn Val Ala Met Lys Ala Ile Lys Gly Leu Lys Phe
 260 265 270
 Gly Glu Thr Tyr Ile Asn Arg Glu Asn Phe Glu Ala Met Gln Gly Phe
 275 280 285
 His Ala Gly Trp Arg Lys Ser Gly Ile Gly Gly Ala Asp Gly Lys His
 290 295 300
 Gly Leu Asn Glu Tyr Leu Gln Thr Gln Val Val Tyr Leu Gln Ser
 305 310 315 320

<210> 5825
 <211> 148
 <212> PRT
 <213> Enterobacter cloacae

<400> 5825
 Ser Gly Ala Pro Ser Met Arg Gly Gly Ser His Phe Gln Glu Arg Trp
 1 5 10 15
 Leu Cys Trp Arg Asp Asn Gly Tyr Leu Ser Gly Asn Asn Met Arg Thr
 20 25 30

Lys Tyr Thr Gly Leu Gln Ile Ser Ile His Trp Leu Val Phe Leu Leu
 35 40 45
 Val Ile Met Ala Tyr Cys Ala Met Glu Phe Met Gly Trp Phe Pro Arg
 50 55 60
 Ser Asp Arg Pro Leu Ile Asn Met Ile His Val Ser Cys Gly Ile Ser
 65 70 75 80
 Ile Leu Val Leu Met Val Ala Arg Leu Leu Ile Arg Leu Lys Phe Pro
 85 90 95
 Ala Pro Pro Ile Gln Pro Lys Pro Lys Ala Met Ile Thr Gly Leu Ser
 100 105 110
 His Leu Gly His Leu Val Ile Tyr Leu Leu Phe Ile Ala Leu Pro Leu
 115 120 125
 Ile Cys Met Val Met Met Tyr Asn Arg Gly Asn Asp Trp Phe Ala Phe
 130 135 140
 Trp Pro Asp
 145

<210> 5826

<211> 68

<212> PRT

<213> Enterobacter cloacae

<400> 5826

Cys Ile Thr Gly Glu Met Thr Gly Leu Arg Phe Gly Leu Thr Asn Pro
 1 5 10 15
 His Ala Ala Glu Gly Asn Phe Asp Leu Val Asp Thr Leu Lys Thr Trp
 20 25 30
 His Val Asn Leu Ala Ile Leu Gly Asn Ser Leu Ile Gly Leu His Pro
 35 40 45
 Leu Ala Pro Leu Asn Pro Pro Tyr Phe Leu Glu Lys Thr Thr Pro Leu
 50 55 60
 Leu Pro His
 65

<210> 5827

<211> 115

<212> PRT

<213> Enterobacter cloacae

<400> 5827

Ile His Asn Gly Leu His Gly Gln Leu Lys Ile Gly Ile Ala His His
 1 5 10 15
 Asp Gly Arg Gly Phe Thr Ala Gln Leu Gln Pro His Phe Gly Asp Val
 20 25 30
 Phe Arg Ser Arg Ser His Asp Leu Phe Thr Cys Pro Asp Ala Ala Gly
 35 40 45
 His Ala Asp His Arg His Phe Arg Ile Pro Gly Gln Leu Leu Ser Asp
 50 55 60
 Gly Phe Thr Pro Ala Gln His Gln Val Lys Asp Ala Phe Arg Gln Ala
 65 70 75 80
 Asn Leu Ile Asp Asp Phe Gly Lys Arg Asn Gly Val Val Trp Gly Lys
 85 90 95
 Phe Ala Arg Phe Asp Asn Asp Gly Val Ala Gly Asp Gln Arg Gly Ser
 100 105 110
 Lys Leu Thr
 115

<210> 5828

<211> 130

<212> PRT

<213> Enterobacter cloacae

<400> 5828

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Thr Arg Ser Ala Gln Leu His Thr Cys Pro Val Leu Met Thr Arg Glu
1          5          10          15
Ser Thr Met Ala Phe Thr Ala Ser Ser Arg Ser Ala Ser Pro Ile Thr
          20          25          30
Met Ala Gly Ala Leu Pro Pro Ser Ser Ser Pro Thr Leu Val Met Phe
          35          40          45
Phe Ala Ala Ala Ala Met Ile Phe Ser Pro Ala Pro Thr Leu Pro Val
          50          55          60
Met Leu Thr Ile Ala Thr Phe Gly Phe Pro Ala Ser Ser Cys Pro Thr
65          70          75          80
Val Ser Pro Arg Pro Ser Thr Arg Leu Lys Thr Pro Phe Gly Arg Pro
          85          90          95
Ile Ser Ser Thr Ile Leu Ala Asn Ala Met Ala Leu Phe Gly Val Asn
          100          105          110
Ser Leu Gly Leu Ile Thr Met Val Leu Pro Val Ile Ser Ala Gly Ala
          115          120          125
Ser Leu
          130

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<210> 5829

<211> 245

<212> PRT

<213> Enterobacter cloacae

<400> 5829

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Cys Arg Thr Asp Ser Pro Gly His Ser Pro Trp Phe Val Gln Cys Gly
1          5          10          15
Val Val Asn Lys Ser Val Ser Glu Ala Phe Asp Ser Lys Ala Phe Leu
          20          25          30
Lys Thr Val Thr Ser Gln Pro Gly Val Tyr Arg Met Tyr Asp Ala Gly
          35          40          45
Gly Thr Val Ile Tyr Val Gly Lys Ala Lys Asp Leu Lys Lys Arg Leu
          50          55          60
Ser Ser Tyr Phe Arg Ser Asn Leu Ala Ser Arg Lys Thr Glu Ala Leu
65          70          75          80
Val Ala Leu Ile His Asn Ile Asp Val Thr Val Thr His Thr Glu Thr
          85          90          95
Glu Ala Leu Leu Leu Glu His Asn Tyr Ile Lys Leu Tyr Gln Pro Arg
          100          105          110
Tyr Asn Val Leu Leu Arg Asp Asp Lys Ser Tyr Pro Phe Ile Phe Leu
          115          120          125
Ser Gly Asp Thr His Pro Arg Leu Ala Met His Arg Gly Ala Lys His
          130          135          140
Ala Lys Gly Glu Tyr Phe Gly Pro Phe Pro Asn Gly Tyr Ala Val Arg
145          150          155          160
Glu Thr Leu Ala Leu Leu Gln Lys Ile Phe Pro Val Arg Gln Cys Glu
          165          170          175
Asn Ser Val Tyr Arg Asn Arg Ser Arg Pro Cys Leu Gln Tyr Gln Ile
          180          185          190
Gly Arg Cys Leu Gly Pro Cys Val Glu Gly Leu Val Ser Glu Glu Glu
          195          200          205
Tyr Ala Gln Gln Val Glu Tyr Val Arg Leu Phe Leu Ala Gly Lys Asp
          210          215          220
Asp Gln Val Leu Thr Gln Leu Ile Thr Arg Met Glu Lys Ala Ser Ala
225          230          235          240
Ala Leu Gly Ile
          245

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<210> 5830

<211> 80
 <212> PRT
 <213> Enterobacter cloacae

<400> 5830

Gln	Gln	Thr	Val	Thr	Val	Ile	Met	Arg	Phe	Asn	Ile	Pro	Thr	Leu	Leu
1				5					10					15	
Thr	Leu	Phe	Arg	Val	Val	Leu	Ile	Pro	Phe	Phe	Val	Leu	Ala	Phe	Tyr
			20					25					30		
Leu	Pro	Val	Val	Trp	Ala	Pro	Phe	Ala	Cys	Ala	Leu	Ile	Phe	Leu	Ile
		35					40					45			
Ala	Ala	Val	Thr	Asp	Trp	Phe	Asp	Gly	Tyr	Leu	Ala	Arg	Arg	Trp	Asn
	50					55					60				
Gln	Ser	Thr	Arg	Phe	Gly	Ala	Phe	Val	Leu	Pro	His	Arg	Pro	Gly	
65					70					75					80

<210> 5831

<211> 401
 <212> PRT
 <213> Enterobacter cloacae

<400> 5831

Leu	Leu	Val	Trp	Lys	Lys	Pro	Ala	Arg	Arg	Trp	Glu	Phe	Glu	Glu	Ala
1				5					10					15	
Ala	Arg	Ile	Arg	Asp	Gln	Ile	Gln	Ala	Val	Arg	Arg	Val	Thr	Glu	Lys
			20					25					30		
Gln	Phe	Val	Ser	Asn	Thr	Gly	Asp	Asp	Leu	Asp	Val	Ile	Gly	Val	Ala
		35					40					45			
Phe	Asp	Ala	Gly	Leu	Ala	Cys	Val	His	Val	Leu	Phe	Ile	Arg	Gln	Gly
	50					55					60				
Lys	Val	Leu	Gly	Ser	Arg	Ser	Tyr	Phe	Pro	Lys	Val	Pro	Gly	Gly	Thr
65				70						75					80
Glu	Leu	Gly	Glu	Val	Val	Glu	Thr	Phe	Val	Gly	Gln	Phe	Tyr	Leu	Gln
				85					90					95	
Gly	Ser	Gln	Met	Arg	Thr	Leu	Pro	Ser	Glu	Ile	Leu	Leu	Asp	Phe	Thr
			100					105					110		
Leu	Asp	Asp	Lys	Thr	Leu	Leu	Ala	Asp	Ser	Leu	Ser	Glu	Leu	Ala	Gly
	115						120					125			
Arg	Arg	Val	Asn	Val	Gln	Thr	Lys	Pro	Arg	Gly	Asp	Arg	Ala	Arg	Tyr
	130					135					140				
Leu	Lys	Leu	Ala	Arg	Thr	Asn	Ala	Ala	Thr	Ala	Leu	Thr	Thr	Lys	Leu
145					150					155					160
Ser	Gln	Gln	Ser	Thr	Val	Ser	Gln	Arg	Leu	Thr	Ala	Leu	Ala	Thr	Leu
				165					170					175	
Leu	Lys	Leu	Pro	Glu	Val	Lys	Arg	Met	Glu	Cys	Phe	Asp	Ile	Ser	His
		180						185					190		
Thr	Met	Gly	Glu	Gln	Thr	Val	Ala	Ser	Cys	Val	Val	Phe	Asp	Ala	Asn
		195					200					205			
Gly	Pro	Leu	Arg	Ala	Glu	Tyr	Arg	Arg	Tyr	Asn	Ile	Thr	Gly	Ile	Thr
	210					215					220				
Pro	Gly	Asp	Asp	Tyr	Ala	Ala	Met	Asn	Gln	Val	Leu	Arg	Arg	Arg	Tyr
225					230					235					240
Gly	Lys	Ala	Ile	Glu	Glu	Ser	Lys	Ile	Pro	Asp	Val	Ile	Leu	Ile	Asp
				245					250					255	
Gly	Gly	Lys	Gly	Gln	Leu	Gly	Gln	Ala	Lys	Ala	Val	Phe	Glu	Ser	Leu
			260					265					270		
Asp	Val	Glu	Trp	Asp	Lys	Asn	His	Pro	Leu	Leu	Leu	Gly	Val	Ala	Lys
		275					280					285			
Gly	Ala	Asp	Arg	Lys	Ala	Gly	Leu	Glu	Thr	Leu	Phe	Phe	Glu	Pro	Glu
	290					295					300				
Gly	Glu	Gly	Phe	Ser	Leu	Pro	Pro	Asp	Ser	Pro	Ala	Leu	His	Val	Ile

305 310 315 320
 Gln His Ile Arg Asp Glu Ser His Asp His Ala Ile Ser Gly His Arg
 325 330 335
 Lys Lys Arg Ala Lys Val Lys Asn Thr Ser Thr Leu Glu Thr Ile Glu
 340 345 350
 Gly Val Gly Pro Lys Arg Arg Gln Met Leu Leu Lys Tyr Met Gly Gly
 355 360 365
 Leu Gln Gly Leu Leu Asn Ala Ser Met Glu Glu Ile Ala Lys Val Pro
 370 375 380
 Gly Ile Ser Gln Gly Leu Ala Glu Lys Ile Tyr Tyr Ser Leu Lys His
 385 390 395 400

<210> 5832
 <211> 174
 <212> PRT
 <213> Enterobacter cloacae

<400> 5832
 Gln Arg Leu Cys Tyr Gln Arg Glu Thr Val Arg Arg Arg Gln Arg Arg
 1 5 10 15
 Gly Gly Arg Pro Asp Ser Val Arg Leu Asn Gly Asp Cys Ala Pro Gly
 20 25 30
 Trp Leu Trp Gln Gln Arg Asp Arg Thr Pro Val Leu Ile His Phe Cys
 35 40 45
 Thr Lys Lys Gln Gly Met Arg Pro Val Phe Phe Arg Glu Asp Leu Met
 50 55 60
 Ser Thr Phe Ile Leu Leu Ala Ala Leu Ala Ser Gln Ile Thr Phe Ser
 65 70 75 80
 Thr Ser Gln Gln Ala Asn Met Thr Thr Ile Ile Pro Gln Val Thr Leu
 85 90 95
 Ala Asp Ala Cys Glu Cys Gln Val Glu Val Leu Ser Val Arg Gln Gly
 100 105 110
 Gln Gly Gly Gln Ser Thr Ser Arg Gln Lys Asn Thr Leu Phe Ile Pro
 115 120 125
 Ala Asn Gln Pro Ile Asp Leu Thr Arg Ile Ser Leu Asn Ile Arg Ser
 130 135 140
 Gly Asp Ala Val Lys Ile Ile Val Thr Val Ser Asp Gly Lys Ser Leu
 145 150 155 160
 His Leu Ser Gln Gln Trp Asn Ala Pro Val Ser Ala Leu
 165 170

<210> 5833
 <211> 187
 <212> PRT
 <213> Enterobacter cloacae

<400> 5833
 Thr Cys Phe Gly Arg His Thr Leu Phe Arg Asn Ala Ala Leu Thr Lys
 1 5 10 15
 Arg Ile Ala Leu Thr Glu Gln Glu Ile Leu Phe Tyr Ser Gln Val Gln
 20 25 30
 Gly Asp Ser Met Lys Asn Lys Thr Leu Phe Met Met Phe Thr Leu Leu
 35 40 45
 Gly Ala Pro Gly Phe Val Ile Ala Gly Asp Ser Asp Leu Ala Ser Ser
 50 55 60
 Glu Tyr Asn Phe Ala Ile Asn Glu Leu Ser Lys Ala Ser Tyr Asn Gln
 65 70 75 80
 Ala Ala Ile Ile Gly Gln Gln Gly Ser Gly Asn Asn Ser Asp Val Arg
 85 90 95

Gln Asp Gly Ser Lys Leu Leu Ser Val Ile Ser Gln Glu Gly Gly Asn
 100 105 110
 Asn Arg Ala Asn Val Asp Gln Ser Gly Thr Tyr Asn Leu Ala Tyr Ile
 115 120 125
 Asp Gln Thr Gly Asn Gly Asn Asp Ala Ser Ile Lys Gln Gly Ala Phe
 130 135 140
 Gly Asn Thr Ala Met Ile Ile Gln Lys Gly Ser Gly Asn Arg Ala Asn
 145 150 155 160
 Ile Thr Gln Tyr Gly Thr Gln Lys Thr Ala Val Val Val Gln Arg Gln
 165 170 175
 Ser Gln Met Ala Ile Arg Val Ile Gln Arg
 180 185

<210> 5834

<211> 159

<212> PRT

<213> Enterobacter cloacae

<400> 5834

Ser Ile Arg Trp Gly Phe Thr Met Lys Leu Phe Lys Val Ala Val Ile
 1 5 10 15
 Ala Ala Ile Val Val Ser Gly Ser Ala Phe Ala Gly Ala Val Pro Gln
 20 25 30
 Phe Gly Gly Gly His Gly Gly Gly Trp Gly Gly Gly Asn Asn Gly Pro
 35 40 45
 Asp Ser Thr Leu Ser Ile Tyr Gln Tyr Gly Gly Gly Asn Ser Ala Leu
 50 55 60
 Ala Leu Gln Thr Asp Ala Arg Asp Ser Glu Leu Thr Ile Thr Gln His
 65 70 75 80
 Gly Gly Gly Asn Gly Ala Asp Val Gly Gln Gly Ser Asp Asp Ser Ser
 85 90 95
 Ile Asp Leu Leu Gln Lys Gly Phe Gly Asn Ser Ala Thr Ile Asp Gln
 100 105 110
 Trp Asn Ser Lys Asp Ser Val Ile Asn Val Lys Gln Phe Gly Gly Gly
 115 120 125
 Asn Gly Ala Ala Val Asp Gln Thr Ala Ser Gly Ser Thr Val Thr Val
 130 135 140
 His Gln Val Gly Phe Gly Asn Asn Ala Thr Ala His Gln Tyr
 145 150 155

<210> 5835

<211> 297

<212> PRT

<213> Enterobacter cloacae

<400> 5835

Lys Asn Ile Met Met Arg Ile Ala Leu Phe Leu Leu Thr Asn Leu Ala
 1 5 10 15
 Val Met Val Val Phe Gly Leu Val Leu Ser Leu Thr Gly Ile Gln Ser
 20 25 30
 Ser Ser Val Gln Gly Leu Leu Ile Met Ala Leu Leu Phe Gly Phe Gly
 35 40 45
 Gly Ser Phe Ile Ser Leu Leu Met Ser Lys Trp Met Ala Leu Lys Ser
 50 55 60
 Val Gly Gly Glu Val Ile Glu Gln Pro Arg Asn Asp Met Glu Gln Trp
 65 70 75 80
 Leu Met Ser Thr Val Ala Gln Gln Ser Lys Gln Ala Gly Ile Ala Met
 85 90 95
 Pro Gln Val Ala Ile Tyr His Ala Pro Asp Ile Asn Ala Phe Ala Thr
 100 105 110
 Gly Ala Arg Arg Asp Ala Ser Leu Val Ala Val Ser Thr Gly Leu Leu

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      115              120              125
Gln Asn Met Ser Arg Asp Glu Ala Glu Ala Val Ile Ala His Glu Ile
      130              135              140
Ser His Ile Ala Asn Gly Asp Met Val Thr Met Thr Leu Ile Gln Gly
145              150              155              160
Val Val Asn Thr Phe Val Ile Phe Ile Ser Arg Ile Leu Ala Gln Ile
      165              170              175
Ala Ala Gly Phe Met Gly Gly Asn Arg Asp Glu Gly Glu Glu Ser Asn
      180              185              190
Gly Asn Pro Leu Ile Tyr Phe Ala Val Ser Met Val Leu Glu Leu Val
      195              200              205
Phe Gly Ile Leu Ala Ser Ile Ile Thr Met Trp Phe Ser Arg His Arg
      210              215              220
Glu Phe His Ala Asp Ala Gly Ser Ala Lys Leu Val Gly Arg Glu Lys
225              230              235              240
Met Ile Ala Ala Leu Gln Arg Leu Lys Thr Ser Tyr Glu Pro Gln Glu
      245              250              255
Ala Asn Ser Met Met Ala Phe Cys Ile Asn Gly Lys Ser Lys Ser Leu
      260              265              270
Ser Glu Leu Phe Met Ser His Pro Pro Leu Asp Lys Arg Ile Glu Ala
      275              280              285
Leu Arg Ser Gly Glu Tyr Leu Lys
      290              295

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<210> 5836

<211> 536

<212> PRT

<213> Enterobacter cloacae

<400> 5836

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Leu Asp Arg Ser Lys Ala Pro Trp Pro Lys Asp Glu Ala Glu Leu Asn
1      5      10      15
Val Leu Trp Asp Gly Lys Val Lys Tyr Asp Glu Leu Ser Leu Lys Leu
      20      25      30
Thr Gly Lys Asp Glu Lys Glu Ile Arg Glu Thr Leu Asn Arg Arg Tyr
      35      40      45
Lys Phe Asp Ile Arg Arg Leu Ala Gln Thr Asn Ser Glu Asp Val Phe
      50      55      60
Ser Leu Ala Met Thr Ala Phe Ala His Glu Ile Asp Pro His Thr Asn
      65      70      75      80
Tyr Leu Ser Pro Arg Asn Thr Glu Gln Phe Asn Thr Glu Met Ser Leu
      85      90      95
Ser Leu Glu Gly Ile Gly Ala Val Leu Gln Met Asp Asp Asp Tyr Thr
      100      105      110
Val Ile Asn Ser Met Val Ala Gly Gly Pro Ala Ser Lys Ser Lys Ala
      115      120      125
Ile Ser Val Gly Asp Arg Ile Val Gly Val Gly Gln Thr Gly Lys Ser
      130      135      140
Met Val Asp Val Ile Gly Trp Arg Leu Asp Asp Val Val Ala Leu Ile
      145      150      155      160
Lys Gly Pro Lys Gly Ser Lys Val Arg Leu Glu Ile Leu Pro Ala Gly
      165      170      175
Lys Gly Thr Lys Thr Arg Ile Val Thr Leu Thr Arg Glu Arg Ile Arg
      180      185      190
Leu Glu Asp Arg Ala Val Lys Met Ser Val Lys Thr Val Gly Lys Glu
      195      200      205
Lys Val Gly Val Leu Asp Ile Pro Gly Phe Tyr Val Gly Leu Thr Asp
      210      215      220
Asp Val Lys Val Gln Leu Gln Lys Leu Glu Lys Gln Asn Val Ser Ser
      225      230      235      240
Val Ile Ile Asp Leu Arg Ser Asn Gly Gly Gly Ala Leu Thr Glu Ala

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<210> 5837
<211> 309
<212> PRT
<213> Enterobacter cloacae
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<400> 5837

Leu	Thr	Phe	Ala	Asp	Ser	Glu	Phe	Ser	Thr	Lys	Arg	Arg	Gln	Thr	Arg
1				5					10					15	
Lys	Glu	Ile	Phe	Leu	Ser	Arg	Met	Glu	Gln	Ile	Leu	Pro	Trp	Gln	Asn
			20					25					30		
Met	Thr	Ala	Val	Ile	Glu	Pro	Phe	Tyr	Pro	Lys	Ala	Gly	Asn	Gly	Arg
			35				40					45			
Arg	Pro	Tyr	Pro	Leu	Glu	Thr	Met	Leu	Arg	Ile	His	Cys	Met	Gln	His
	50					55					60				
Trp	Tyr	Asn	Leu	Ser	Asp	Gly	Ala	Met	Glu	Asp	Ala	Leu	Tyr	Glu	Ile
65					70					75				80	
Ala	Ser	Met	Arg	Leu	Phe	Ala	Arg	Leu	Ser	Leu	Asp	Ser	Ala	Leu	Pro
				85					90					95	
Asp	Arg	Thr	Thr	Ile	Met	Asn	Phe	Arg	His	Leu	Leu	Glu	Gln	His	Gln

100 105 110
 Leu Ala Arg Gln Leu Phe Lys Thr Ile Asn Arg Trp Leu Ala Glu Ala
 115 120 125
 Gly Val Met Met Thr Gln Gly Thr Leu Val Asp Ala Thr Ile Ile Glu
 130 135 140
 Ala Pro Ser Ser Ser Lys Asn Lys Glu Gln Gln Arg Asp Pro Glu Met
 145 150 155 160
 His Gln Thr Lys Lys Gly Asn Gln Trp His Phe Gly Met Lys Ala His
 165 170 175
 Ile Gly Val Asp Ala Lys Ser Gly Leu Thr His Ser Leu Val Thr Thr
 180 185 190
 Ala Ala Asn Glu His Asp Leu Asn Gln Leu Gly Asn Leu Leu His Gly
 195 200 205
 Glu Glu Gln Phe Val Ser Ala Asp Ala Gly Tyr Gln Gly Ala Pro Gln
 210 215 220
 Arg Glu Glu Leu Ala Glu Val Asp Val Asp Trp Leu Ile Ala Glu Arg
 225 230 235 240
 Pro Gly Lys Val Lys Thr Leu Lys Gln His Pro Arg Lys Asn Lys Thr
 245 250 255
 Ala Ile Asn Ile Glu Tyr Met Lys Ala Ser Ile Arg Ala Lys Val Glu
 260 265 270
 His Pro Phe Arg Ile Ile Lys Arg Gln Phe Gly Phe Val Lys Ala Arg
 275 280 285
 Tyr Lys Gly Leu Leu Gln His Asp Asn Leu Phe Thr Ser Arg Gly Gly
 290 295 300
 Ser Ala Ser Gly Xaa
 305

<210> 5838

<211> 93

<212> PRT

<213> Enterobacter cloacae

<400> 5838

Ser Ala Ser Trp Arg Gly Ala Ile Cys Leu Ser Arg Cys Arg Leu Pro
 1 5 10 15
 Arg Ser Ala Thr Ala Arg Gly Ala Gly Arg Gly Gly Cys Gly Leu Ala
 20 25 30
 Asp Arg Arg Ala Ser Arg Gln Gly Lys Asn Leu Glu Ala Ala Ser Ala
 35 40 45
 Gln Glu Gln Asn Gly His Gln His Arg Ile His Glu Ser Gln His Pro
 50 55 60
 Cys Gln Gly Gly Ala Pro Val Ser His His Gln Ala Ala Val Arg Leu
 65 70 75 80
 Arg Glu Ser Gln Ile Gln Gly Ala Ala Ala Thr Arg
 85 90

<210> 5839

<211> 100

<212> PRT

<213> Enterobacter cloacae

<400> 5839

Ala Val Gly Gln Ala Thr Leu Gly Ile Asp Thr Asn Val Gly Leu His
 1 5 10 15
 Ala Lys Val Pro Leu Ile Ala Phe Leu Gly Leu Met His Leu Arg Ile
 20 25 30
 Ala Leu Leu Leu Phe Val Leu Ala Arg Ala Gly Cys Leu Asn Asp Gly
 35 40 45
 Gly Ile His Gln Ser Ala Leu Gly His His Asp Ala Cys Phe Gly Gln
 50 55 60

Pro Ala Ile Asp Gly Leu Glu Gln Leu Thr Gly Gln Leu Met Leu Leu
 65 70 75 80
 Glu Gln Val Ala Glu Ile His Asp Gly Gly Ala Ile Arg Gln Gly Ala
 85 90 95
 Ile Gln Gly
 100

<210> 5840

<211> 116

<212> PRT

<213> Enterobacter cloacae

<400> 5840

Ser Gly Lys Gln Ala His Gly Gly Asp Phe Val Gln Gly Ile Phe His
 1 5 10 15
 Gly Thr Val Ala Gln Val Val Pro Met Leu His Ala Val Asn Thr Gln
 20 25 30
 His Gly Leu Gln Arg Ile Gly Pro Ser Ala Ile Ala Arg Leu Gly Ile
 35 40 45
 Lys Arg Leu Asp Asp Ser Gly His Ile Leu Pro Trp Gln Asn Leu Leu
 50 55 60
 His Ala Gly Glu Glu Asn Leu Phe Ser Gly Leu Thr Ala Leu Ser Ala
 65 70 75 80
 Glu Phe Thr Ile Gly Glu Gly Glu Leu Met Ala His Asp Val Pro Leu
 85 90 95
 Gly Cys Ala Pro Asp Glu Tyr Asp Asp Leu Ile Ser Gly Thr Cys Ser
 100 105 110
 His Leu Pro
 115

<210> 5841

<211> 520

<212> PRT

<213> Enterobacter cloacae

<400> 5841

Val Leu Pro Ala Ala Cys Gly Glu Asn Asp Ser Arg Arg Ala Glu Met
 1 5 10 15
 Leu Gln Gln Ala Asn Ala Leu Asp Glu Arg Glu Ser Phe Ser Ser Leu
 20 25 30
 Arg Arg Leu Ala Trp Gln Asn Gly His Tyr Phe Thr Leu Arg Thr Thr
 35 40 45
 Phe Asn Gln Pro Gly His Leu Ala Thr Val Val Ala Phe Asp Leu Pro
 50 55 60
 Ile Asn Asp Leu Ile Pro Pro Asp Met Pro Leu Asp Ser Phe Arg Leu
 65 70 75 80
 Glu Pro Asp Asn Ser Thr Gln Asn Met Arg Ser Pro Ser Asp Lys Glu
 85 90 95
 Gly Ala Asp Ser Val Ala Ile Ser Phe Asn Gly Ser Lys Ile Glu Ile
 100 105 110
 Ala Ser Ser Leu Asn Ser Thr Gly Met Arg Leu Val Trp Gln Val Pro
 115 120 125
 Phe Gly Thr Leu Met Leu Asp Thr Leu Gln Asn Ile Leu Leu Pro Leu
 130 135 140
 Leu Leu Asn Ile Gly Leu Leu Ala Leu Ala Leu Phe Gly Tyr Ser Thr
 145 150 155 160
 Phe Arg Phe Gln Ser Gly Arg Gln Ser Asp Ser Thr Ser Val Ser Ala
 165 170 175
 Gly Thr Ser Asn Glu Leu Arg Ile Leu Arg Ala Leu Asn Glu Glu Ile
 180 185 190
 Ile Ser Val Leu Pro Leu Gly Val Leu Val His Asp Gln Glu Ala Asn


```
<210> 5842
<211> 138
<212> PRT
<213> Enterobacter cloacae
```

<400> 5842																
Ser	Val	Arg	Ser	Asn	Ser	Met	Arg	His	Tyr	Glu	Ile	Val	Phe	Met	Val	
1				5					10					15		
His	Pro	Asp	Gln	Ser	Glu	Gln	Val	Pro	Gly	Met	Ile	Glu	Arg	Tyr	Ser	
			20					25					30			
Ala	Ala	Ile	Thr	Gly	Ala	Glu	Gly	Thr	Ile	His	Arg	Leu	Glu	Asp	Trp	
		35					40					45				
Gly	Arg	Arg	Gln	Leu	Ala	Tyr	Pro	Ile	Asn	Lys	Leu	His	Lys	Ala	His	
	50					55					60					
Tyr	Val	Leu	Met	Asn	Val	Glu	Ala	Pro	Gln	Glu	Val	Ile	Asp	Glu	Leu	
65				70						75				80		
Glu	Thr	Thr	Phe	Arg	Phe	Asn	Asp	Ala	Val	Ile	Arg	Ser	Met	Val	Met	
				85					90					95		
Arg	Thr	Lys	His	Ala	Val	Thr	Glu	Ala	Ser	Pro	Met	Val	Lys	Ala	Lys	

```

          100          105          110
Asp Glu Arg Arg Glu Arg Arg Asp Asp Phe Ala Asn Glu Thr Ala Asp
          115          120          125
Asp Ser Asp Ala Gly Asp Ser Glu Glu
          130          135

```

<210> 5843
 <211> 72
 <212> PRT
 <213> Enterobacter cloacae

```

<400> 5843
Phe Leu Met Thr Asn Arg Leu Val Leu Ser Gly Thr Val Cys Arg Thr
1          5          10          15
Pro Leu Arg Lys Val Ser Pro Ser Gly Ile Pro His Cys Gln Phe Val
          20          25          30
Leu Glu His Arg Ser Val Gln Glu Glu Ala Gly Phe His Arg Gln Ala
          35          40          45
Trp Cys Gln Met Pro Val Ile Ser Gly His Glu Asn Gln Ala Ile
          50          55          60
Thr His Ser Phe Asn Gly Arg
65          70

```

<210> 5844
 <211> 133
 <212> PRT
 <213> Enterobacter cloacae

```

<400> 5844
Thr Thr Ser Ser Glu Met Val Thr His Pro Asn Pro Gly Ser Asp Tyr
1          5          10          15
Thr Leu Ile Arg Asn Pro Glu Gln Arg Arg Arg Ala Phe Pro Arg Ile
          20          25          30
Thr Ala Arg Ser Arg Gly Ala His Ile Met Lys Arg Ile Ala Ile Ala
          35          40          45
Ile Leu Ala Ala Leu Leu Leu Ser Ala Asn Ala Met Ala Ala Ile Arg
          50          55          60
Ile Asp Ser Gln Gln Ala Arg Asn Met Asp Asp Val Gln Ser Leu Gly
65          70          75          80
Val Ile Tyr Ile Asn His Asn Phe Ala Thr Glu Ser Glu Ala Asp Gln
          85          90          95
Ala Leu Asn Glu Glu Thr Asp Ala His Gly Ala Lys Tyr Tyr His Val
          100          105          110
Met Leu Thr Arg Glu Pro Gly Ser Asn Gly Asn Met His Ala Ser Ala
          115          120          125
Asp Ile Tyr Gln
130

```

<210> 5845
 <211> 188
 <212> PRT
 <213> Enterobacter cloacae

```

<400> 5845
Asn Arg Ala Phe Ala Glu Cys Lys His Asp Gly Arg Phe Ala Asp Asp
1          5          10          15
Ala Gly Glu Lys Met Ile Pro Val Leu Ala Ile Ser Ala Trp Ser Gly
          20          25          30
Thr Gly Lys Thr Ser Leu Leu Lys Lys Leu Ile Pro Ala Leu Cys Ala
          35          40          45
Lys Gly Ile Arg Pro Gly Leu Ile Lys His Thr His His Asn Met Asp

```

50		55		60
Val Asp Lys Pro Gly Lys Asp Ser Tyr Glu Leu Arg Lys Ala Gly Ala				
65		70		75
Ala Gln Thr Met Val Ala Ser Asn Gln Arg Trp Ala Leu Met Thr Glu				80
	85		90	95
Thr Pro Asp Glu Ala Pro Leu Asp Leu Ala Tyr Leu Val Ser Arg Met				
	100		105	110
Asp His Ser Thr Leu Asp Leu Val Leu Val Glu Gly Phe Lys His Glu				
	115		120	125
Ala Val Ala Lys Ile Leu Leu Phe Arg Ser Asp Ala Gly His Asp Val				
	130		135	140
Ser Glu Leu Thr Leu Asp Glu His Val Ile Ala Val Ala Ser Asp Val				
145		150		155
Ala Leu Thr Leu Lys Val Pro Val Leu Asp Leu Asn Asn Val Glu Gly				160
	165		170	175
Ile Ala Ala Phe Ile Ser Ala Trp Cys Ala Val				
	180		185	

<210> 5846

<211> 243

<212> PRT

<213> Enterobacter cloacae

<400> 5846

Phe Ile Arg Lys Gly Gln Gly Val Thr Pro Thr Ala Tyr Ala Thr Ile				
1		5		10
Leu His Glu Tyr Ile Ser Gln Gly Leu Glu Ser Ile Leu Gly Ala Leu				15
	20		25	30
Asp Leu Thr Gly Ser Tyr Asp Lys Gln Arg Thr Ile Thr Ile Gly Thr				
	35		40	45
Ser Pro Ser Val Gly Val Leu Val Met Pro Ala Ile Tyr Gln Ala Val				
	50		55	60
Lys Gln His Ala Pro Gln Leu Leu Ile Arg Asn Val Pro Val Asn Asp				
65		70		75
Pro Glu Thr Gln Leu Ala Gln Phe Gln Thr Asp Leu Ile Ile Asp Ser				
	85		90	95
Asn Ser Phe Ala Ala Arg Ala Leu Gly His Asn Val Leu Tyr Thr Asp				
	100		105	110
Ser Leu Ala Leu Val Cys Arg Gln Asn His Pro Val Leu Ser Ala Pro				
	115		120	125
Leu Thr Pro Glu Asn Leu Arg His Tyr Glu His Ala Thr Phe Met Ser				
	130		135	140
Glu Gly Gln Gly Pro Asp Pro Leu Arg Gln Arg Ile Asp Glu Leu Phe				
145		150		155
Pro Asp Arg Leu Ile Ser Phe Ser Ser Tyr Asn Met Phe Thr Leu Ala				
	165		170	175
Ala Leu Ile Gly Ser Ser Asp Leu Leu Cys Ile Met Pro Val Arg Leu				
	180		185	190
Phe Ala Leu Leu Gln Lys Cys Trp Pro Leu Glu Ser Ile Pro Leu Ser				
	195		200	205
Gln Leu Thr Thr Glu Ser Val Glu Ile Ser Leu His Tyr Asn Lys Leu				
	210		215	220
Ser Leu Arg Asp Pro Val Leu Glu Asn Val Ile Asn Val Ile Arg Gln				
225		230		235
Ala Phe				240

<210> 5847

<211> 337

<212> PRT

<213> Enterobacter cloacae

<400> 5847

```

Ile Glu Thr Leu Ser Phe Asp Ile Arg Asn Trp Asn Thr His Ala Met
1          5          10          15
Ser Lys Pro Ile Val Met Glu Arg Gly Val Lys Tyr Arg Asp Ala Asp
          20          25          30
Lys Met Ala Leu Ile Pro Val Lys Asn Val Ala Thr Glu Arg Glu Ala
          35          40          45
Leu Leu Arg Lys Pro Glu Trp Met Lys Ile Lys Leu Pro Ala Asp Ser
50          55          60
Ser Arg Ile Gln Gly Ile Lys Ala Ala Met Arg Lys Asn Gly Leu His
65          70          75          80
Ser Val Cys Glu Glu Ala Ser Cys Pro Asn Leu Ala Glu Cys Phe Asn
          85          90          95
His Gly Thr Ala Thr Phe Met Ile Leu Gly Ala Ile Cys Thr Arg Arg
          100          105          110
Cys Pro Phe Cys Asp Val Ala His Gly Arg Pro Val Ala Pro Asp Ala
          115          120          125
Asn Glu Pro Gln Lys Leu Ala Gln Thr Ile Ala Asp Met Ala Leu Arg
130          135          140
Tyr Val Val Ile Thr Ser Val Asp Arg Asp Asp Leu Arg Asp Gly Gly
145          150          155          160
Ala Gln His Phe Ala Asp Cys Ile Thr Ala Ile Arg Glu Lys Ser Pro
          165          170          175
Asn Ile Lys Ile Glu Thr Leu Val Pro Asp Phe Arg Gly Arg Met Asp
          180          185          190
Arg Ala Leu Asp Ile Leu Thr Ala Thr Pro Pro Asp Val Phe Asn His
195          200          205
Asn Leu Glu Asn Val Pro Arg Ile Tyr Arg Gln Val Arg Pro Gly Ala
210          215          220
Asp Tyr Asn Trp Ser Leu Lys Leu Leu Glu Arg Phe Lys Glu Ala His
225          230          235          240
Pro His Ile Pro Thr Lys Ser Gly Leu Met Val Gly Leu Gly Glu Thr
          245          250          255
Asn Ala Glu Ile Ile Glu Val Met Arg Asp Leu Arg Arg His Gly Val
260          265          270
Thr Met Leu Thr Leu Gly Gln Tyr Leu Gln Pro Ser Arg His His Leu
275          280          285
Pro Val Gln Arg Tyr Val Ser Pro Asp Glu Phe Asp Glu Met Lys Ala
290          295          300
Glu Ala Met Ala Met Gly Phe Thr His Ala Ala Cys Gly Pro Phe Val
305          310          315          320
Arg Ser Ser Tyr His Ala Asp Met Gln Ala Lys Gly Glu Glu Val Lys
          325          330          335

```

<210> 5848

<211> 187

<212> PRT

<213> Enterobacter cloacae

<400> 5848

```

Arg Cys Ile Cys Leu Val Lys Ile Phe Phe Ser Ala Ser Glu Lys Asn
1          5          10          15
Met Ser Asp Tyr Ile Pro Lys Lys Arg Gly Leu Leu Ile Leu Asp Trp
          20          25          30
Tyr Val Pro Leu Asn Ile Leu Leu Leu Ile Leu Val Met Cys Val Phe
          35          40          45
Phe Thr Arg Tyr Thr Phe Gly Tyr Gly Leu Leu Asn Gly Cys Leu Pro
50          55          60

```

Ala Asp Phe Tyr Met Ile Asp His Ser Asp Lys Ser Ile Lys Thr Gly
65 70 75 80
Glu Leu Ile Pro Phe Asn Met Pro Lys Ser Val Arg Phe Ile Pro Gln
85 90 95
Asn Glu Arg Val Ile Lys Ile Val Ala Gly Val Gly Gly Asp Lys Leu
100 105 110
Lys Val Thr Met Asp Gly Val Tyr Asn Gly Asp Lys Phe Phe Glu Thr
115 120 125
Asn Ala Arg Arg Ile Ser Lys Lys Tyr Asn Ile Pro Ser Ile Leu Ile
130 135 140
Glu Lys Glu Leu Ile Ile Pro Glu Gly Glu Val Phe Leu Ile Gly Gln
145 150 155 160
Thr Asp His Ser Trp Asp Ser Arg Phe Trp Gly Thr Val Lys Leu Asn
165 170 175
Ser Val Ile Gly Lys Thr Tyr Ala Ile Phe
180 185

<210> 5849

<211> 271

<212> PRT

<213> Enterobacter cloacae

<400> 5849

Cys Ala Val Leu Ser Asn Thr Asn Ala Ser Thr Glu Tyr Gln His Asp
1 5 10 15
Ala Asp Leu Ile Ala Gln Gln Ala Lys Gly Leu Gly Ala Gln Ala Lys
20 25 30
Gly Ala Gln Gln Pro Asp Gly Ala Leu Ser Leu Asp Ala Thr Leu Lys
35 40 45
Ser Pro Asp Val Gln Lys Tyr Ile Ala Gln Ala Glu Ala Leu Gln Lys
50 55 60
Asn Gln Asp Leu Ser Lys Gln Ile Asn Arg Gly Tyr Val Pro Gly Met
65 70 75 80
Asn Ala Asp Ser Val Gln Ala Val Ile Asp His Thr Gln Ala Ile Arg
85 90 95
Ala Gln Ser Asn Asn Ser Glu Ala Val Asn Asp Ile Ile Arg Arg Arg
100 105 110
Asp Glu Ile Gln Glu Asn Ala Ser Leu Asn Glu Ala Ala Leu Lys Ala
115 120 125
Val Glu Asn Lys Pro Glu Val Met Arg Gly Gln Ala Lys Asn Ile Glu
130 135 140
Lys Leu Phe Gly Ser Ser Gly Ile Thr Ala Ala Asp Phe Glu Arg Lys
145 150 155 160
Met Asp Ser Thr Arg Glu Glu Ala Leu Ser Thr Glu Asn Gly Ile Thr
165 170 175
Ile Phe Ala Ser Phe Ser Leu Pro Asp Tyr Val Leu Glu Asp Leu Leu
180 185 190
Arg Thr Ala Ser Glu His Lys Ala Arg Val Val Phe Asn Gly Leu Lys
195 200 205
Lys Gly Thr Thr Arg Leu Pro Glu Thr Gln Ala Ala Ile Asn Gln Met
210 215 220
Ile Val Lys Gly Lys Phe Glu Ser Pro Leu Ile Thr Ile Asp Pro Asp
225 230 235 240
Ser Phe Ser Gln Tyr Gln Val Thr Gln Val Pro Thr Ile Ile Ser Arg
245 250 255
Glu Gln Ala Arg Phe Ala Lys Met Gly Lys Leu Leu Gln Arg
260 265 270

<210> 5850

<211> 247

<212> PRT

<213> Enterobacter cloacae

<400> 5850

```

Met Asn Leu Arg Thr Lys Gly Phe Leu Leu Ile Ile Lys Asp Glu Gly
1          5          10          15
Asp Thr Lys Glu Phe Thr Ile Glu Asn Pro Gly Lys Tyr Thr Leu Met
          20          25          30
Val Val Phe Lys Asp Asn Arg Asn Asn Glu Gln Arg Ile Glu Asn Thr
          35          40          45
Phe Val Val Asp Glu Gln Thr Pro Met Asn Val Glu Met Thr Pro Lys
          50          55          60
Phe Ser Asn Lys Tyr Met Arg Ala Pro Leu Asp Val Thr Leu Arg Ser
65          70          75          80
Asn Ile Lys Ile Ser His Ser Ala Asp Ser Ile Asp Thr Val Thr Tyr
          85          90          95
Lys Val Asn Gly Glu Val Ile Pro Ser Gly Lys Asn Tyr Trp Ala Gln
          100          105          110
Leu Ile Ser Gly Leu Lys Glu Lys Lys Tyr Glu Ile Thr Ile Asp Val
          115          120          125
Val Ser Lys Leu Gly Gln Arg Gly Ser Ala Ser Val Glu Phe Asp Val
130          135          140
Val Lys Asn Ala Val Pro Asn Cys Thr Leu Ser Tyr Thr Glu Thr Asn
145          150          155          160
Leu Ser Trp Ser Phe Thr Asn Lys Cys Asp Asp Thr Asp Gly Lys Met
          165          170          175
Val Arg Tyr Glu Trp Phe Ile Asn Gly Glu Leu Arg Asn Val Phe Gly
          180          185          190
Ser Thr Ala Thr Leu Ser Lys Asn Leu Asn Arg Gly Lys Gln Asp Ile
          195          200          205
Lys Val Ile Ala Tyr Asp Asp Ser Gly Asp Phe Ala Thr Gln His Val
210          215          220
Thr Val Phe Gly Pro Ala Glu Glu Ala Ser Lys Ser Glu Asn Thr Val
225          230          235          240
Ser Ile Pro Ser Ser Glu
          245

```

<210> 5851

<211> 139

<212> PRT

<213> Enterobacter cloacae

<400> 5851

```

Val Leu Asp Ala Gln Ile Ser Val Cys Ala Cys Ser Ser Leu Ile Arg
1          5          10          15
Cys Ile Asn Thr Thr Pro His Met Arg Gly Phe Phe Val Pro Asp Ser
          20          25          30
Arg Val Ser Cys Gly Cys Arg Val Ala Val Ala His Tyr Pro Ala Tyr
          35          40          45
Arg Ile Gln Tyr Ala Arg Ile Glu Pro Trp Ser Lys Leu Phe Ile Arg
          50          55          60
Pro Arg Met Gly Glu Pro Trp Gly Ile Val Leu Leu Asp Ser Ala Lys
65          70          75          80
Glu Ser Gly Ser Asp Gly Gly Gly Gly Arg Ile Thr Gln Arg Phe Ala
          85          90          95
Leu Arg Pro Ser Gly Arg Cys Met Arg Gln Arg Phe Leu Asp Thr Leu
          100          105          110
Glu Ser Asn Leu Gly Arg Ser Phe Ser Ser Phe Pro Ala Leu Lys Asn
          115          120          125
His Gly Ala Leu Cys Phe Glu Arg Val Leu
          130          135

```

<210> 5852
 <211> 112
 <212> PRT
 <213> Enterobacter cloacae

<400> 5852
 Phe Ala Val Leu Ile Gln Pro Arg Ile Cys Gly Val Phe Leu Phe Pro
 1 5 10 15
 Ile Pro Gly Tyr Arg Ala Asp Ala Gly Trp Arg Leu Arg Ile Thr Arg
 20 25 30
 His Thr Glu Phe Asn Met Leu Glu Ser Asn Leu Gly Arg Ser Phe Leu
 35 40 45
 Ser Val Pro Ala Trp Glu Asn His Gly Ala Leu Cys Phe Trp Ile Val
 50 55 60
 Leu Lys Asn Pro Glu Val Met Val Val Gly Glu Gly Leu Leu Ser Ala
 65 70 75 80
 Ser Arg Phe Ala Leu Arg Val Val Ala Cys Gly Asn Ala Phe Ser Ile
 85 90 95
 Arg Ser Asn Arg Thr Leu Val Glu Ala Ser His His Ser Pro His
 100 105 110

<210> 5853
 <211> 173
 <212> PRT
 <213> Enterobacter cloacae

<400> 5853
 Phe Glu Glu Ala Glu Asp His Ala Gly Asn Ser Thr Glu Ala Lys Thr
 1 5 10 15
 Ile Arg Asp Asp Arg Lys Tyr Thr Lys Arg Glu Arg Glu Leu Pro Ala
 20 25 30
 Asn Arg Leu Asn Arg Lys Arg Ala Arg Ser Gln Ala Lys Lys Asp Gly
 35 40 45
 Asn Ala Lys Glu Gln Gln Gln Asp Gln Ile Glu Thr Lys Ile Glu Gln
 50 55 60
 Gln Ala Glu Glu Ile Glu Asn Ile Asn Ser Asp Gln Glu Lys Gln Ser
 65 70 75 80
 Arg Glu Ile Lys Glu Gly His Gln Gly Glu Glu Asn Asp Glu Ala Lys
 85 90 95
 Thr Thr Gln Ala Glu Gln Glu Glu Ile Gly Arg Lys Glu Arg Lys Arg
 100 105 110
 Gln Lys Glu Thr Gln Arg Ala Lys Asn Ile Gln Glu Arg Lys Ala Arg
 115 120 125
 Gln Pro Gly Gly Gln Gln Glu Gln Ala Arg Glu Ile Lys Arg Glu Ile
 130 135 140
 Glu Ser Gln Gln Pro His Asn Glu Ser Leu Phe Gln Lys Val Asn Tyr
 145 150 155 160
 Leu Ser Tyr Ile Asn Arg Arg Gly Arg Arg Thr Arg Ala
 165 170

<210> 5854
 <211> 270
 <212> PRT
 <213> Enterobacter cloacae

<400> 5854
 Pro Phe Cys Arg Asp Thr Val Met Gln Ala Glu Ile Leu Leu Thr Leu
 1 5 10 15
 Arg Leu Gln Gln Lys Leu Phe Ala Asp Pro Arg Arg Ile Ala Leu Leu
 20 25 30
 Lys Gln Ile Glu Gln Thr Gly Ser Ile Ser Gln Gly Ala Lys Asn Ala

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<210> 5855
<211> 388
<212> PRT
<213> Enterobacter cloacae
```

<400>	5855															
His	Met	Ser	Ser	Leu	His	Ile	Ser	Gln	Gly	Thr	Phe	Arg	Leu	Ser	Asp	
1				5					10					15		
Thr	Arg	Thr	Leu	Ser	Leu	Pro	Glu	Leu	Thr	Leu	Arg	Ala	Gly	Glu	Ser	
			20					25					30			
Trp	Ala	Phe	Val	Gly	Ser	Asn	Gly	Ser	Gly	Lys	Ser	Ala	Leu	Ala	Arg	
		35					40					45				
Ala	Leu	Ala	Gly	Glu	Ile	Thr	Gln	Leu	Lys	Gly	Glu	Arg	Arg	Cys	Thr	
	50					55					60					
Phe	Thr	Arg	Leu	Thr	Arg	Leu	Ser	Phe	Glu	Gln	Leu	Gln	Lys	Leu	Val	
65					70					75					80	
Ser	Asp	Glu	Trp	Gln	Arg	Asn	Asn	Thr	Asp	Leu	Leu	Ser	Pro	Gly	Glu	
				85					90					95		
Glu	Asp	Thr	Gly	Arg	Thr	Thr	Ala	Glu	Ile	Ile	Gln	Asp	Glu	Ile	Lys	
			100					105					110			
Asp	Pro	Ala	Arg	Cys	Gln	Gln	Leu	Ala	Glu	Gln	Phe	Gly	Ile	Thr	Ala	
		115					120					125				
Leu	Leu	Asn	Arg	Arg	Phe	Lys	Tyr	Leu	Ser	Thr	Gly	Glu	Thr	Arg	Lys	
	130					135					140					
Thr	Leu	Leu	Cys	Gln	Ala	Leu	Met	Ser	Glu	Pro	Glu	Leu	Leu	Ile	Leu	
145					150					155					160	
Asp	Glu	Pro	Phe	Asp	Gly	Leu	Asp	Val	Gln	Ser	Arg	Ala	Gln	Leu	Ala	


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<210> 5856
<211> 264
<212> PRT
<213> Enterobacter cloacae
```

<400> 5856																
Gly 1	Lys	Thr	Met	Ile 5	Thr	Leu	Cys	Lys	Thr 10	Cys	Gly	Thr	Ala	Tyr 15	Asp	
Glu	Gln	Pro	Lys 20	Asn	Cys	Pro	Ile	Cys 25	Asp	Asp	Glu	Arg	Gln 30	Tyr	Val	
Pro	Val	Thr 35	Gly	Gln	Ala	Trp	Thr 40	Asp	Phe	Asp	Ser	Leu 45	Thr	Thr	Thr	
His	Thr 50	Asn	Lys	Trp	Gln	Gln 55	Leu	Glu	Pro	Gln	Leu 60	Phe	Ser	Ile	Lys	
Thr 65	Val	Pro	Ala	Phe	Ala 70	Ile	Asn	Gln	Arg	Ala 75	Leu	Leu	Leu	Arg	Thr 80	
Pro	Gln	Gly	Asn 85	Val	Leu	Trp	Asp	Cys 90	Ile	Ala	Asn	Leu	Asp	Pro 95	Ala	
Thr	Arg	Ala	Leu 100	Val	Asp	Ala	Leu	Gly 105	Gly	Ile	Ser	Ala	Ile 110	Ala	Ile	
Ser	His	Pro 115	His	Tyr	Tyr	Thr	Thr 120	Met	Gln	Glu	Trp	Ala 125	Ala	Ala	Phe	
Asn	Ala	Pro 130	Ile	Tyr	Leu	His 135	Ala	Ser	Asp	Arg	Gln	Trp 140	Val	Met	Arg	
Asp 145	Ser	Pro	Ala	Ile	Arg 150	Phe	Trp	Glu	Glu	Asp 155	Ala	Leu	Glu	Ile	Met 160	
Pro	Leu	Val	Thr 165	Leu	Leu	Arg	Leu	Gly 170	Gly	His	Phe	Ala	Gly 175	Gly	Thr	
Val	Leu	His 180	Trp	Gln	Ser	Gly	Asp 185	Gly	Val	Leu	Leu	Ala	Gly 190	Asp	Ile	
Leu	Gln	Val	Thr	Pro	Gly	Lys	Asp	Ala	Val	Ser	Phe	Met	Trp	Ser	Tyr	

195	200	205
Pro Asn Met Leu Pro Leu Pro Ala Arg Thr Val Glu Ser Leu Ile Gly		
210	215	220
Arg Leu Thr Gly Lys Thr Tyr Gln Arg Leu Tyr Gly Ala Phe Glu Gly		
225	230	235
Gln Asn Ile Pro Val Asn Ala Asp Glu Ile Val Gln Arg Ser Gly Gln		
	245	250
		255
Lys Tyr Ile Ala Cys Leu Arg		
260		

<210> 5857

<211> 277

<212> PRT

<213> Enterobacter cloacae

<400> 5857

Ala Pro Pro Ile Arg Gly Gly Ser Arg Leu Phe Gln Ala Arg Val Lys		
1	5	10
Leu Leu Ile Pro Thr Pro Phe Gly Ala Asp Thr Val Leu Ala Asp Thr		
	20	25
		30
Gln Phe Gly Ser Leu Thr Arg Pro Val Gln Asp Glu Ala Met Ala Asn		
	35	40
		45
Trp Gln Glu Glu Gly Trp Lys Glu Ala Pro Leu Pro Val Trp Asn Leu		
	50	55
		60
Leu Asn Tyr Ala Val Leu Gln Glu Arg Arg Asn Gly Met Ala Leu Phe		
	65	70
		75
Thr Glu Gly Leu Arg Glu Phe Glu Val Thr Gly Glu Arg Gln Lys Thr		
	85	90
		95
Phe Ala Leu Thr Leu Leu Arg Gly Val Gly Val Leu Gly Lys Glu Asp		
	100	105
		110
Leu Leu Leu Arg Pro Gly Arg Pro Ser Gly Ile Lys Met Pro Val Pro		
	115	120
		125
Asp Ser Gln Met Arg Gly Gln Leu Thr Cys Arg Phe Ser Leu Phe Ser		
	130	135
		140
Phe Asn Gly Thr Pro Val Ser Ala Gly Val Ala Gln Gln Ala Lys Ser		
	145	150
		155
Trp Leu Thr Pro Val His Cys Tyr Asn Lys Ile Pro Trp Asp Ala Met		
	165	170
		175
Lys Leu Asn Arg Ala Ser Phe Thr Thr Pro Cys Ser Tyr Ser Leu Leu		
	180	185
		190
Thr Leu Ala Pro Asn Gly Cys Val Leu Ser Ala Leu Lys Lys Ala Glu		
	195	200
		205
Asp Arg Asp Glu Met Ile Leu Arg Leu Tyr Asn Pro Ser Glu Thr Arg		
	210	215
		220
Ser Cys Asp Val Ala Leu Ser Val Asn Arg Glu Ile Gln Ala Cys Cys		
	225	230
		235
Glu Thr Asp Met Asn Glu Val Tyr Lys Ala Gln Gly Glu Glu Gly Ser		
	245	250
		255
Ala Ile Thr Gly Ser Phe Arg Pro Gly Gln Ser Arg Thr Phe Ser Ile		
	260	265
		270
Lys Ile Glu Arg		
275		

<210> 5858

<211> 68

<212> PRT

<213> Enterobacter cloacae

<400> 5858

Gly Leu Ile Leu Ala Gly Phe Ile Asn Ser Pro Met Val Gly Gln Gly		
1	5	10
		15

Leu Phe Leu Phe Asn Ile Pro Ile Gly Gly His Val Ser Cys Gly Gly
 20 25 30
 Phe Leu Lys Val Pro Ser Tyr Arg Pro Lys Pro Glu Asp Val Glu Phe
 35 40 45
 Asp Ala Arg Arg Asp Leu Phe Phe Cys His His Trp Ala Phe Pro Leu
 50 55 60
 Gln Ser Gly
 65

<210> 5859

<211> 247

<212> PRT

<213> Enterobacter cloacae

<400> 5859

Thr Arg Ser Ile Pro Leu Thr Phe Thr Gly Ser Leu Met Arg Pro Ile
 1 5 10 15
 Val Val Val Leu Leu Ile Leu Ala Ala Ala Leu Thr Pro Ile Leu Trp
 20 25 30
 Arg Val Glu Arg Ala Ala Pro Asp Pro Val Val Gln Val Asp Leu Leu
 35 40 45
 Ala Ser Arg Glu Val Arg Ile Ala Thr Ala Ile Ser Ala Gly Asn Gly
 50 55 60
 Leu Ser Gln Ala Ala Ile Val Phe Ile Pro Ser Tyr Ala Phe Leu Ala
 65 70 75 80
 Leu Ser Leu Ser Glu Ser Met Ala Ser Phe Ser Leu Leu Pro Phe Val
 85 90 95
 Thr Thr Met Ala Leu Ser Ala Pro Ile Val Gly Val Leu Leu Asp Arg
 100 105 110
 Val Gly Ser Arg Val Val Met Ile Ser Gly Ser Leu Ile Leu Met Val
 115 120 125
 Gly Cys Thr Ile Met Ala Leu Leu Ser Ser Thr Thr Pro Leu Phe Ile
 130 135 140
 Leu Ala Glu Val Leu Met Ala Leu Gly Leu Ile Thr Val Ile Gly Ala
 145 150 155 160
 Pro Leu Arg Tyr Ile Met Leu Ser Glu Thr Pro Pro Glu His Arg Ala
 165 170 175
 Ser Gly Gln Ala Leu Ile Asn Ile Leu Ser Ser Ala Gly Gln Leu Val
 180 185 190
 Gly Gly Ala Leu Ile Gly Gly Ile Val Ala Ser Met Gly Ser Gly Val
 195 200 205
 Met Gly Tyr Arg Phe Ser Phe Leu Phe Leu Val Ala Val Ala Phe Thr
 210 215 220
 Leu Phe Leu Leu Ser Thr Gly Leu Lys Gly Arg Asp Val Glu Leu Glu
 225 230 235 240
 Thr Met Lys Arg Asp Ser Cys
 245

<210> 5860

<211> 250

<212> PRT

<213> Enterobacter cloacae

<400> 5860

Phe Met Phe Leu Ser Val Ile Thr Val Ala Phe Arg Asn Tyr Glu Gly
 1 5 10 15
 Val Val Lys Thr Trp Arg Ser Leu Arg Asn Leu Ala Arg Asp Pro Ser
 20 25 30
 Leu Thr Phe Glu Trp Ile Val Val Asp Gly Gly Ser Asn Asp Gly Thr
 35 40 45
 Ala Glu Phe Leu Glu Lys Leu Asn Gly Glu Phe Asn Leu Arg Tyr Ile

50 55 60
 Ser Glu Lys Asp Lys Gly Ile Tyr Asp Ala Met Asn Lys Gly Ile Asn
 65 70 75 80
 Met Ala Gln Gly Arg Tyr Ala Ile Phe Leu Asn Ser Gly Asp Val Phe
 85 90 95
 His Glu Asn Val Ala Leu Phe Ala Arg Gln Leu Ala Arg Gln Lys Glu
 100 105 110
 Asp Ala Met Phe Ile Gly Asp Ala Leu Leu Asp Phe Gly Glu Gly Lys
 115 120 125
 Lys Val Leu Arg Gly Ala Lys Pro Gly Trp Tyr Ile Tyr His Ser Leu
 130 135 140
 Pro Ala Ser His Gln Ala Ile Phe Phe Pro Met Ser Gly Leu Lys Lys
 145 150 155 160
 Gln Pro Tyr Asp Leu Arg Tyr Lys Val Ser Ser Asp Tyr Ala Leu Ala
 165 170 175
 Ala Ser Leu Tyr Lys Ser Gly Tyr Pro Phe Arg Arg Ile Lys Gly Leu
 180 185 190
 Val Ser Glu Phe Ser Met Gly Gly Val Ser Thr Ser Asn Asn Leu Glu
 195 200 205
 Leu Cys Gln Asp Ala Lys Asn Val Gln Arg Lys Ile Leu Arg Val Pro
 210 215 220
 Gly Phe Trp Ala Glu Leu Ser Tyr Phe Leu Arg Leu Lys Thr Thr Gly
 225 230 235 240
 Lys Ala Lys Ala Leu Tyr Asn Lys Ala
 245 250

<210> 5861

<211> 117

<212> PRT

<213> Enterobacter cloacae

<400> 5861

Gly Asn Val Met Gln Glu Leu Asn Gly Phe Ser Val Pro Lys Gly Phe
 1 5 10 15
 Arg Gly Gly Ser Gly Ile Lys Val Gln Leu Trp Trp Ala Val Gln Ala
 20 25 30
 Thr Leu Phe Ala Trp Ser Pro Gln Ile Leu Tyr Arg Trp Arg Ala Phe
 35 40 45
 Leu Leu Arg Leu Phe Gly Ala Lys Ile Gly Lys Asn Val Val Ile Arg
 50 55 60
 Pro Ser Val Lys Ile Thr Tyr Pro Trp Lys Leu Thr Leu Gly Asp Tyr
 65 70 75 80
 Ala Trp Val Gly Asp Asp Ala Val Leu Tyr Thr Leu Gly Glu Ile Thr
 85 90 95
 Ile Gly Ala Asn Ser Val Val Ser Gln Lys Cys Tyr Leu Cys Thr Gly
 100 105 110
 Ser His Asp Phe Met
 115

<210> 5862

<211> 76

<212> PRT

<213> Enterobacter cloacae

<400> 5862

Ile Ile Tyr Phe Ser Trp Phe Ala Val Leu Leu Thr Leu Trp Tyr Leu
 1 5 10 15
 Phe Lys Val Phe Lys Met Met Ile Asn Ala Phe Gly Asp Asn Gln Asn
 20 25 30
 Phe Arg Val Gln Leu Tyr Leu Phe Thr Pro Val Ser Leu Phe Phe Thr
 35 40 45

Gly Ser Ile Phe Ser Pro Glu Tyr Ala Phe Leu Ile Val Cys Pro Phe
 50 55 60
 Ile Leu Arg Lys Ala Leu Asn Ile Thr Ser Val
 65 70 75

<210> 5863

<211> 124

<212> PRT

<213> Enterobacter cloacae

<400> 5863

Thr Ala Ala Asp Leu Leu Leu Gln Leu Ser Thr Ser Gln Arg Gln Gly
 1 5 10 15
 Arg Tyr Lys Thr Thr Leu Asn Arg Gly Val Met Ala Pro Lys Leu Leu
 20 25 30
 Ile Ile Asp Glu Ile Gly Tyr Leu Pro Phe Ser Gln Glu Glu Ala Lys
 35 40 45
 Leu Phe Phe Gln Val Ile Ala Lys Cys Tyr Glu Lys Ser Ala Met Ile
 50 55 60
 Leu Thr Ser Asn Leu Pro Phe Gly Gln Trp Asp Gln Thr Phe Ala Gly
 65 70 75 80
 Asp Ala Ala Leu Thr Ser Ala Met Leu Asp Arg Ile Leu His His Ser
 85 90 95
 His Val Val Gln Ile Lys Gly Glu Ser Tyr Arg Leu Lys Gln Lys Arg
 100 105 110
 Lys Ala Gly Val Ile Ala Glu Ala Asn Pro Glu
 115 120

<210> 5864

<211> 709

<212> PRT

<213> Enterobacter cloacae

<400> 5864

Thr Arg Asn Gln Met Ala Arg Thr Thr Pro Ile Ala Arg Tyr Arg Asn
 1 5 10 15
 Ile Gly Ile Ser Ala His Ile Asp Ala Gly Lys Thr Thr Thr Glu
 20 25 30
 Arg Ile Leu Phe Tyr Thr Gly Val Asn His Lys Ile Gly Glu Val His
 35 40 45
 Asp Gly Ala Ala Thr Met Asp Trp Met Glu Gln Glu Gln Glu Arg Gly
 50 55 60
 Ile Thr Ile Thr Ser Ala Ala Thr Thr Ala Phe Trp Ser Gly Met Ala
 65 70 75 80
 Lys Gln Tyr Glu Pro His Arg Val Asn Ile Ile Asp Thr Pro Gly His
 85 90 95
 Val Asp Phe Thr Ile Glu Val Glu Arg Ser Met Arg Val Leu Asp Gly
 100 105 110
 Ala Val Met Val Tyr Cys Ala Val Gly Gly Val Gln Pro Gln Ser Glu
 115 120 125
 Thr Val Trp Arg Gln Ala Asn Lys Tyr Lys Val Pro Arg Ile Ala Phe
 130 135 140
 Val Asn Lys Met Asp Arg Met Gly Ala Asn Phe Leu Lys Val Val Gly
 145 150 155 160
 Gln Ile Lys Thr Arg Leu Gly Ala Asn Pro Val Pro Leu Gln Leu Ala
 165 170 175
 Ile Gly Ala Glu Gly Phe Thr Gly Val Ile Asp Leu Val Lys Met
 180 185 190
 Lys Ala Ile Asn Trp Asn Glu Thr Asp Ala Gly Val Thr Phe Glu Tyr
 195 200 205
 Glu Asp Ile Pro Ala Glu Met Gln Asp Leu Ala Asp Glu Trp His Gln

	210					215					220				
Asn	Leu	Ile	Glu	Ser	Ala	Ala	Glu	Ala	Ser	Glu	Glu	Leu	Met	Glu	Lys
225					230					235					240
Tyr	Leu	Gly	Gly	Glu	Glu	Leu	Ser	Glu	Gln	Glu	Ile	Lys	Ser	Ala	Leu
				245					250						255
Arg	Gln	Arg	Val	Leu	Asn	Asn	Glu	Ile	Ile	Leu	Val	Thr	Cys	Gly	Ser
			260					265					270		
Ala	Phe	Lys	Asn	Lys	Gly	Val	Gln	Ala	Met	Leu	Asp	Ala	Val	Val	Asp
		275					280					285			
Tyr	Leu	Pro	Ser	Pro	Ile	Asp	Val	Pro	Ala	Ile	Asn	Gly	Ile	Leu	Asp
	290					295					300				
Asp	Gly	Lys	Asp	Thr	Pro	Ala	Glu	Arg	His	Ala	Ser	Asp	Glu	Glu	Pro
305					310					315					320
Phe	Ser	Ala	Leu	Ala	Phe	Lys	Ile	Ala	Thr	Asp	Pro	Phe	Val	Gly	Asn
				325					330					335	
Leu	Thr	Phe	Phe	Arg	Val	Tyr	Ser	Gly	Val	Val	Asn	Ser	Gly	Asp	Thr
			340					345					350		
Ile	Leu	Asn	Ser	Val	Lys	Ala	Ala	Arg	Glu	Arg	Phe	Gly	Arg	Ile	Val
		355					360					365			
Gln	Met	His	Ala	Asn	Lys	Arg	Glu	Glu	Ile	Lys	Glu	Val	Arg	Ala	Gly
	370					375					380				
Asp	Ile	Ala	Ala	Ala	Ile	Gly	Leu	Lys	Asp	Val	Thr	Thr	Gly	Asp	Thr
385					390					395					400
Leu	Cys	Asp	Pro	Asp	His	Pro	Ile	Ile	Leu	Glu	Arg	Met	Glu	Phe	Pro
				405					410					415	
Glu	Pro	Val	Ile	Ser	Ile	Ala	Val	Glu	Pro	Lys	Thr	Lys	Ala	Asp	Gln
			420					425					430		
Glu	Lys	Met	Gly	Leu	Ala	Leu	Gly	Arg	Leu	Ala	Lys	Glu	Asp	Pro	Ser
		435					440					445			
Phe	Arg	Val	Trp	Thr	Asp	Glu	Glu	Ser	Asn	Gln	Thr	Ile	Ile	Ala	Gly
	450					455				460					
Met	Gly	Glu	Leu	His	Leu	Asp	Ile	Ile	Val	Asp	Arg	Met	Lys	Arg	Glu
465					470					475					480
Phe	Asn	Val	Glu	Ala	Asn	Val	Gly	Lys	Pro	Gln	Val	Ala	Tyr	Arg	Glu
				485					490					495	
Ala	Ile	Arg	Ala	Lys	Val	Thr	Asp	Val	Glu	Gly	Lys	His	Ala	Lys	Gln
			500					505					510		
Ser	Gly	Gly	Arg	Gly	Gln	Tyr	Gly	His	Val	Val	Ile	Asp	Met	Tyr	Pro
		515					520					525			
Leu	Glu	Pro	Gly	Ser	Asn	Pro	Lys	Gly	Tyr	Glu	Phe	Ile	Asn	Asp	Ile
	530					535					540				
Lys	Gly	Gly	Val	Ile	Pro	Gly	Glu	Tyr	Ile	Pro	Ala	Val	Asp	Lys	Gly
545					550					555					560
Ile	Gln	Glu	Gln	Leu	Lys	Ala	Gly	Pro	Leu	Ala	Gly	Tyr	Pro	Val	Val
				565					57						

Ala Arg Gly Lys
705

<210> 5865
<211> 126
<212> PRT
<213> Enterobacter cloacae

<400> 5865
Ser Thr Gly Leu Lys Pro Lys Ser Arg Ala Leu Ser Glu Gly Glu Ser
1 5 10 15
Thr Ile Val Arg Asn Ile Ala Val Ser Lys Glu Lys Phe Glu Arg Thr
20 25 30
Lys Pro His Val Asn Val Gly Thr Ile Gly His Val Asp His Gly Lys
35 40 45
Thr Thr Leu Thr Ala Ala Ile Thr Thr Val Leu Ala Gln Thr Tyr Gly
50 55 60
Gly Ala Ala Arg Ala Phe Asp Gln Ile Asp Asn Ala Pro Glu Glu Lys
65 70 75 80
Ala Arg Gly Ile Thr Ile Asn Thr Ser His Val Glu Tyr Asp Thr Pro
85 90 95
Thr Arg His Tyr Ala His Val Asp Cys Pro Gly His Ala Asp Tyr Val
100 105 110
Ser Leu His Pro Arg Ala Leu Asp Gly Ser Thr Leu Arg
115 120 125

<210> 5866
<211> 235
<212> PRT
<213> Enterobacter cloacae

<400> 5866
Cys Thr Thr Phe Gly Gln Arg Thr Gln Leu Ser Cys Ile Ser Glu His
1 5 10 15
Phe Arg Gln Arg Asn Phe Ser Val Asp Leu Asn Ala Ser Tyr Phe Gly
20 25 30
Phe Leu Thr Thr Gln His Thr Ala Thr Thr Ala Gln Val Thr Asp Asn
35 40 45
Val Thr Gly Val Leu Phe Arg Ser Phe Tyr Phe Asn Leu His Asp Arg
50 55 60
Leu Lys Gln Asn Trp Phe Cys Phe Leu Lys Ala Phe Phe Lys Gly Asn
65 70 75 80
Arg Arg Ser Gln Phe Lys Arg Gln Phe Arg Gly Val Asn Val Val Val
85 90 95
Arg Thr Glu Val Gln Thr Asn Thr His Val Tyr Asn Arg Val Thr Ser
100 105 110
Gln Arg Thr Ser Phe Gln Leu Leu Asp Ala Phe Ile Asn Gly Arg
115 120 125
Asp Val Phe Ala Arg Asn Tyr Thr Thr Phe Asp Val Val Asp Glu Leu
130 135 140
Val Thr Phe Arg Val Arg Ala Arg Leu Gln Trp Val His Val Asp His
145 150 155 160
Asn Val Thr Val Leu Thr Ala Thr Thr Arg Leu Leu Ser Val Phe Thr
165 170 175
Phe Asn Val Gly Asn Phe Arg Ala Asn Arg Phe Ala Val Ser Asn Leu
180 185 190
Arg Phe Thr His Val Arg Phe Asn Val Glu Phe Thr Leu His Thr Val
195 200 205
Asn Asp Asp Val Gln Val Gln Phe Thr His Thr Ser Asp Asp Gly Leu
210 215 220
Val Arg Phe Phe Ile Ser Pro Tyr Thr Glu

225

230

235

<210> 5867

<211> 371

<212> PRT

<213> Enterobacter cloacae

<400> 5867

Trp Val Phe Phe Arg Gln Thr Ala Gln Ser Gln Thr His Phe Phe Leu
 1 5 10 15
 Val Ser Phe Gly Phe Trp Phe Asn Cys Asp Gly Asp Tyr Arg Leu Arg
 20 25 30
 Glu Phe His Thr Leu Gln Asn Asp Arg Val Ile Arg Ile Thr Gln Ser
 35 40 45
 Val Thr Ser Gly His Val Phe Gln Thr Asp Ser Ser Ser Asp Val Ala
 50 55 60
 Arg Thr Asn Phe Phe Asp Leu Phe Thr Phe Val Ser Val His Leu Tyr
 65 70 75 80
 Asp Thr Ala Lys Thr Phe Thr Arg Arg Phe His Gly Val Gln Asp Gly
 85 90 95
 Val Thr Gly Val Asn His Thr Arg Val Asn Ala Glu Glu Gly Gln Val
 100 105 110
 Thr His Glu Trp Val Gly Ser Asn Phe Glu Arg Gln Cys Arg Glu Trp
 115 120 125
 Leu Phe Ile Thr Cys Val Thr Leu Ser Arg Ser Ile Phe Thr Val Val
 130 135 140
 Gln Asp Ala Val Asp Arg Arg Asn Val Asn Arg Gly Trp Gln Val Val
 145 150 155 160
 Asn Tyr Arg Ile Gln His Arg Leu Asn Thr Phe Val Leu Glu Arg Arg
 165 170 175
 Thr Thr Gly Tyr Gln Asp Asp Phe Val Val Gln Asn Ala Leu Thr Gln
 180 185 190
 Ser Arg Phe Asp Leu Leu Leu Arg Gln Phe Phe Thr Thr Gln Val Phe
 195 200 205
 Phe His Gln Leu Phe Arg Ser Phe Cys Cys Gly Phe Asp Gln Val Leu
 210 215 220
 Val Pro Phe Val Ser Gln Val Leu His Leu Cys Arg Asp Ile Phe Val
 225 230 235 240
 Phe Glu Gly Asn Ala Arg Ile Cys Phe Val Pro Val Asp Gly Phe His
 245 250 255
 Phe His Gln Val Asp Asn Ala Gly Glu Ala Phe Phe Ser Thr Asn Cys
 260 265 270
 Gln Leu Lys Arg Asn Arg Val Arg Ala Gln Thr Gly Phe Asp Leu Ala
 275 280 285
 Asn Asn Phe Gln Glu Val Ser Thr His Thr Val His Phe Val Asn Glu
 290 295 300
 Arg Asp Ala Trp Asn Phe Ile Phe Val Cys Leu Thr Pro Tyr Gly Phe
 305 310 315 320
 Arg Leu Trp Leu Asn Thr Thr Asn Cys Ala Ile Asn His Tyr Arg Ala
 325 330 335
 Val Lys Asn Thr His Gly Thr Phe Tyr Phe Asp Gly Glu Val Asn Val
 340 345 350
 Pro Trp Gly Val Asp Asp Val Tyr Ala Met Arg Phe Val Leu Leu Ser
 355 360 365
 His Thr
 370

<210> 5868

<211> 63

<212> PRT

<213> Enterobacter cloacae

<400> 5868

Ser Gly Ser His Arg Val Ser Pro Val Val Thr Ser Phe Arg Pro Ile
 1 5 10 15
 Ala Ala Ala Met Ser Pro Ala Arg Thr Ser Leu Ile Ser Ser Arg Leu
 20 25 30
 Leu Ala Cys Ile Cys Thr Ile Arg Pro Lys Arg Ser Arg Ala Ala Phe
 35 40 45
 Thr Glu Phe Arg Met Val Ser Pro Glu Leu Thr Thr Pro Glu
 50 55 60

<210> 5869

<211> 275

<212> PRT

<213> Enterobacter cloacae

<400> 5869

Pro His Ile Leu Asp Leu Phe Ala Pro Ser Leu Glu Pro Gly His Ser
 1 5 10 15
 Lys Thr Met Met Ala Ala Phe Ile Val Ala Ile Arg Gly Thr Val Thr
 20 25 30
 Gln Ala Val Leu Leu Gly Leu Ala Ala Thr Ile Ser His Thr Ser Ile
 35 40 45
 Val Trp Leu Ile Ala Leu Gly Gly Met Tyr Ile Arg Gln Lys Phe Thr
 50 55 60
 Ala Glu Ser Ala Glu Pro Trp Phe Gln Leu Ile Ser Ala Ile Ile Ile
 65 70 75 80
 Leu Ala Thr Ala Ala Trp Met Phe Trp Arg Thr Trp Arg Gly Glu Lys
 85 90 95
 Leu Trp Arg Met Glu Gln Glu Asp Glu His Gly His Val Asn His Pro
 100 105 110
 His Asp Glu Thr Arg Val Ile Asp Thr Gly His Gly Ser Val Glu Leu
 115 120 125
 Ser Ile Phe Glu Glu Gly Gln Pro Pro His Trp Arg Leu Arg Ser Leu
 130 135 140
 Ser Gly Arg Lys Trp Glu Ala Ser Asp Ile Thr Leu Val Thr Asn Arg
 145 150 155 160
 Gly Thr Gly Thr Phe Ser Gln Val Phe Asn Phe Val Glu Lys Asp Gly
 165 170 175
 Phe Met Glu Ser Ala Gln Pro Ile Pro Glu Pro His Asn Phe Glu Val
 180 185 190
 Cys Leu Ser Leu Gly His Arg Gly His Val His Asp Tyr Asp Val Glu
 195 200 205
 Phe Arg Glu His Asp His Asn His Asp His Ser Ala Leu Glu Gly Leu
 210 215 220
 Asp Val Ser Ser Leu Glu Tyr Gln Asp Ala His Glu Lys Ala His Ala
 225 230 235 240
 Asn Asp Ile Lys Lys Arg Phe Ala Asn Ser Ser Val Thr Thr Gly Gln
 245 250 255
 Ile Ile Leu Ser Arg Pro Asp Gly Leu His His Ala Asp Gly Lys Ile
 260 265 270
 Lys Arg Ser
 275

<210> 5870

<211> 149

<212> PRT

<213> Enterobacter cloacae

<400> 5870

Val Ile Phe His Gln Pro Leu Val Ala Cys Phe Asp Lys Thr Lys Leu

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1           5           10           15
Thr Phe Asn Asn Pro Lys Arg Val Leu His Leu Cys Pro Asp Ala Gly
                20                25                30
Phe Gln Val Phe Glu Phe Asp Gly Gly Phe Val Phe Ala Gly Val Leu
                35                40                45
Phe Gln Tyr Pro Asp Phe Pro Trp Thr Phe Ser Asp Glu Pro Val His
                50                55                60
Ile Thr Val Leu Gln Leu Ile Pro Phe Leu Cys Ala Thr Ile Thr Arg
65                70                75                80
Ile Gly Gly Asp Lys Phe Phe Val Thr Val Gln Lys Ile Ile Gln Leu
                85                90                95
Val Gln Val Met Phe Ile Ser Gly Gly His Gln Arg Met Ser Lys
                100                105                110
Ala Ala Phe Ser Ile Asp Ser Asn Met Ser Leu His Ala Lys Val Pro
                115                120                125
Leu Ile Ser Phe Phe Gly Leu Met His Ile Gly Val Thr Leu Phe Val
                130                135                140
Phe Ile Leu Gly
145

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<210> 5871

<211> 329

<212> PRT

<213> Enterobacter cloacae

<400> 5871

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Gly His Met Ser Gln Gln Leu Thr Phe Ala Asp Ser Glu Phe Ser Ser
1           5           10           15
Lys Arg Arg Leu Thr Arg Lys Glu Ile Phe Leu Ser Arg Met Asp Thr
                20                25                30
Leu Leu Pro Trp Pro Gln Leu Leu Gly Asn Ile Glu Pro Val Tyr Pro
                35                40                45
Lys Ala Gly Asn Gly Arg Arg Pro Tyr Ser Leu Glu Thr Met Phe Arg
50                55                60
Ile His Cys Leu Gln Leu Trp Tyr Ser Leu Gly Asp Glu Ala Met Glu
65                70                75                80
Asp Ala Leu Tyr Glu Ile Ala Ser Met Arg Gln Phe Ala Leu Leu Ser
                85                90                95
Leu Asp Lys Ala Ile Pro Asp Arg Thr Thr Ile Met Asn Phe Arg His
                100                105                110
Leu Leu Glu Lys Tyr Lys Leu Thr Arg Lys Ile Phe Gln Thr Val Asn
                115                120                125
Gln Trp Leu Leu Asp Cys Gly Val Met Met Thr Gln Gly Thr Leu Val
130                135                140
Asp Ala Thr Ile Ile Glu Ala Pro Ser Ser Thr Lys Asn Lys Asn Lys
145                150                155                160
Gln Arg Asp Pro Asp Met His Gln Thr Lys Lys Gly Asn Gln Trp His
                165                170                175
Phe Gly Met Lys Ala His Ile Gly Val Asp Ala Glu Ser Gly Leu Thr
                180                185                190
His Thr Leu Val Thr Thr Ala Ala Asn Glu His Asp Leu Asn Gln Leu
                195                200                205
Asn Asn Leu Leu His Gly Asp Glu Glu Phe Val Ser Ala Asp Ala Gly
210                215                220
Tyr Arg Gly Ala Glu Lys Arg Asp Glu Leu Lys Asp Arg Asp Val Asp
225                230                235                240
Trp Phe Ile Ala Glu Arg Pro Gly Lys Val Arg Ile Leu Lys Lys His
                245                250                255
Pro Arg Lys Asn Lys Ala Ala Ile Lys Leu Glu Tyr Leu Lys Ala Ser
                260                265                270
Ile Arg Ala Lys Val Glu His Pro Phe Arg Val Ile Lys Arg Gln Phe

```

	275		280		285										
Gly	Phe	Ile	Lys	Ala	Arg	Tyr	Lys	Gly	Leu	Met	Lys	Asn	Asp	Ser	Gln
	290					295					300				
Leu	Ala	Met	Leu	Phe	Thr	Leu	Ala	Asn	Leu	Phe	Lys	Val	Asp	Gln	Met
305					310					315					320
Ile	Arg	Arg	Gln	Thr	Lys	Ser	Ala								
					325										

<210> 5872

<211> 344

<212> PRT

<213> Enterobacter cloacae

<400> 5872

Arg	Leu	Pro	Ala	Ser	Gly	Gly	Ile	Arg	Met	Arg	Lys	Ser	Val	Ile	Ala
1				5					10					15	
Ile	Ile	Ile	Ile	Val	Leu	Val	Val	Leu	Tyr	Thr	Ser	Ile	Phe	Val	Val
			20					25					30		
Lys	Glu	Gly	Glu	Arg	Gly	Ile	Lys	Phe	Gln	Phe	Ser	Ser	Val	Val	Arg
	35						40					45			
Asp	Gly	Asp	Lys	Arg	Pro	Val	Ile	Tyr	Glu	Pro	Gly	Leu	His	Phe	Lys
	50					55					60				
Ile	Pro	Phe	Ile	Gln	Ser	Val	Lys	Thr	Leu	Asp	Ala	Arg	Ile	Gln	Thr
65				70					75					80	
Met	Asp	Asn	Gln	Ala	Asp	Arg	Phe	Val	Thr	Lys	Glu	Lys	Lys	Asp	Leu
			85					90						95	
Ile	Val	Asp	Ser	Tyr	Ile	Lys	Trp	Arg	Ile	Ser	Asp	Phe	Ser	Arg	Tyr
			100					105					110		
Phe	Leu	Ala	Thr	Gly	Gly	Gly	Asp	Val	Ser	Gln	Ala	Glu	Val	Leu	Leu
	115						120					125			
Lys	Arg	Lys	Phe	Ser	Asp	Arg	Leu	Arg	Ser	Glu	Ile	Gly	Arg	Leu	Asp
	130					135					140				
Val	Lys	Asp	Ile	Val	Thr	Asp	Ser	Arg	Gly	Arg	Leu	Thr	Leu	Glu	Val
145					150				155					160	
Arg	Asp	Ala	Leu	Asn	Ser	Gly	Ser	Ala	Gly	Thr	Glu	Asp	Glu	Val	Glu
			165					170						175	
Thr	Pro	Ala	Ala	Asp	Asp	Ala	Ile	Ala	Lys	Ala	Ala	Glu	Arg	Val	Gln
		180						185					190		
Ala	Glu	Thr	Asn	Gly	Lys	Val	Pro	Val	Ile	Asn	Pro	Asn	Ser	Met	Ala
	195						200					205			
Ala	Leu	Gly	Ile	Glu	Val	Val	Asp	Val	Arg	Ile	Lys	Gln	Ile	Asn	Leu
	210					215					220				
Pro	Ala	Glu	Val	Ser	Glu	Ala	Ile	Tyr	Asn	Arg	Met	Arg	Ala	Glu	Arg
225					230					235				240	
Glu	Ala	Val	Ala	Arg	Arg	His	Arg	Ser	Gln	Gly	Gln	Glu	Glu	Ala	Glu
			245						250					255	
Lys	Leu	Arg	Ala	Ala	Ala	Asp	Tyr	Glu	Val	Thr	Lys	Thr	Leu	Ala	Glu
		260						265					270		
Ser	Glu	Arg	Gln	Gly	Arg	Ile	Leu	Arg	Gly	Glu	Gly	Asp	Ala	Glu	Ala
	275						280					285			
Ala	Lys	Leu	Phe	Ala	Asp	Ala	Phe	Ser	Gln	Asp	Pro	Asp	Phe	Tyr	Ala
	290					295					300				
Phe	Ile	Arg	Ser	Leu	Arg	Ala	Tyr	Glu	Asn	Ser	Phe	Lys	Ser	Asn	Gln
305					310					315				320	
Asp	Val	Met	Val	Leu	Ser	Pro	Asp	Ser	Asp	Phe	Phe	Arg	Tyr	Met	Lys
			325						330					335	
Thr	Pro	Thr	Asn	Ala	Thr	Arg									
			340												

<210> 5873

<211> 168

<212> PRT

<213> Enterobacter cloacae

<400> 5873

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Gly Gly Val Asp Asp Phe Ala Arg Cys Val Lys Tyr Ile Arg Glu Gly
1          5          10          15
Gln Ala Tyr Thr Asn Glu Val Gln Pro Arg Ala Asn Gly Gln Ala Gln
          20          25          30
Arg Ile Leu Glu Glu Ala Arg Ala Tyr Lys Thr Gln Thr Ile Leu Glu
          35          40          45
Ala Gln Gly Glu Val Ala Arg Phe Ala Lys Ile Leu Pro Glu Tyr Lys
          50          55          60
Ala Ala Pro Glu Ile Thr Arg Glu Arg Leu Tyr Ile Glu Thr Met Glu
65          70          75          80
Lys Val Leu Ser His Thr Arg Lys Val Leu Val Asn Asp Asn Lys Gly
          85          90          95
Gly Asn Leu Met Val Leu Pro Leu Asp Gln Met Leu Lys Gly Gly Ser
          100          105          110
Ala Pro Ala Ala Lys Asp Asn Ser Gly Ala Asn Asn Leu Leu Arg Leu
          115          120          125
Pro Pro Ala Ser Ser Gly Ser Ala Ser Ala Asn Thr Thr Pro Ser Ser
          130          135          140
Asn Asp Gly Asp Ile Met Asp Gln Arg Arg Ala Asn Ala Gln Arg Asn
145          150          155          160
Asp Tyr Gln Arg Gln Gly Glu
          165

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<210> 5874

<211> 303

<212> PRT

<213> Enterobacter cloacae

<220>

<221>UNSURE

<222>(252)

<220>

<221>UNSURE

<222>(255)

<220>

<221>UNSURE

<222>(256)

<220>

<221>UNSURE

<222>(257)

<220>

<221>UNSURE

<222>(258)

<220>

<221>UNSURE

<222>(259)

<220>

<221>UNSURE

<222>(260)

<220>

<221>UNSURE
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<220>
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<222>(262)

<220>
<221>UNSURE
<222>(263)

<220>
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<222>(264)

<220>
<221>UNSURE
<222>(265)

<220>
<221>UNSURE
<222>(266)

<220>
<221>UNSURE
<222>(267)

<220>
<221>UNSURE
<222>(296)

<400> 5874
Val Arg Leu Arg Gly Ser Ser Leu Pro Leu Val Lys Ile Met Thr Asp
1 5 10 15
Pro Ala Gly Ala Ser Glu Leu Val Phe Gly Leu Phe Trp Leu Leu Gly
20 25 30
Tyr Gln Phe Ser Pro Arg Leu Ala Asp Ala Gly Ala Ser Val Phe Trp
35 40 45
Arg Met Asp His Asp Ala Asp Tyr Gly Val Leu Asn Asp Ile Ala Arg
50 55 60
Gly Gln Ser Asp Pro Arg Lys Ile Val Leu Gln Trp Asp Glu Met Ile
65 70 75 80
Arg Thr Ala Gly Ser Leu Lys Leu Gly Lys Val Gln Val Ser Val Leu
85 90 95
Val Arg Ser Leu Leu Lys Ser Glu Arg Pro Ser Gly Leu Thr Gln Ala
100 105 110
Ile Ile Glu Val Gly Arg Ile Asn Lys Thr Leu Tyr Leu Leu Asn Tyr
115 120 125
Ile Asp Asp Glu Asp Tyr Arg Arg Arg Ile Leu Thr Gln Leu Asn Arg
130 135 140
Gly Glu Ser Arg His Ala Val Ala Arg Ala Ile Cys His Gly Gln Lys
145 150 155 160
Gly Glu Ile Arg Lys Arg Tyr Thr Asp Gly Gln Glu Asp Gln Leu Gly
165 170 175
Thr Leu Gly Leu Val Thr Asn Ala Val Val Leu Trp Asn Thr Ile Tyr
180 185 190
Met Gln Ala Ala Leu Asp His Leu Arg Ala Gln Gly Glu Thr Leu Asn
195 200 205
Asp Glu Asn Ile Ala Arg Leu Ser Pro Leu Cys His Gly His Ile Asn
210 215 220
Met Leu Gly His Tyr Ser Phe Thr Leu Ala Glu Leu Val Thr Lys Gly

225		230		235		240									
His	Leu	Lys	Pro	Leu	Lys	Glu	Ala	Ser	Glu	Ala	Xaa	Asn	Val	Xaa	Xaa
		245							250					255	
Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Thr	Asn	Arg	Pro	Arg
		260							265				270		
His	Gln	Val	His	Ala	Lys	Met	Gly	Gly	His	Pro	Ala	Gly	Glu	Lys	Ala
		275						280					285		
Pro	Arg	Ala	Val	Leu	Val	Val	Xaa	Thr	Ser	Val	Gly	Pro	Phe		
	290					295					300				

<210> 5875

<211> 743

<212> PRT

<213> Enterobacter cloacae

<400> 5875

Asn	Pro	Glu	Arg	Lys	Phe	Pro	Glu	Gly	Ile	Gln	Tyr	Ser	Ile	Ala	Tyr
1				5					10					15	
Asp	Pro	Thr	Phe	Phe	Ala	Ser	Ala	Ser	Leu	Lys	Ser	Val	Ala	Thr	Thr
		20						25					30		
Leu	Leu	Glu	Ala	Thr	Ile	Leu	Val	Val	Leu	Val	Val	Met	Leu	Phe	Leu
		35					40					45			
Gln	Thr	Trp	Arg	Ala	Ser	Ile	Ile	Pro	Leu	Val	Ala	Val	Pro	Ile	Ser
	50					55					60				
Leu	Val	Gly	Thr	Phe	Ala	Leu	Met	Asp	Val	Phe	Gly	Phe	Ser	Leu	Asn
65					70					75					80
Thr	Leu	Ser	Leu	Phe	Gly	Leu	Val	Leu	Ser	Ile	Gly	Ile	Val	Val	Asp
			85					90					95		
Asp	Ala	Ile	Val	Val	Val	Glu	Asn	Val	Glu	Arg	His	Ile	Ala	Arg	Gly
		100						105					110		
Leu	Ser	Pro	Lys	Asp	Ala	Ala	Arg	Lys	Ala	Met	Asp	Glu	Val	Thr	Gly
		115					120					125			
Pro	Ile	Leu	Ala	Ile	Thr	Ser	Val	Leu	Ala	Ala	Val	Phe	Ile	Pro	Ser
	130						135				140				
Ala	Phe	Leu	Ser	Gly	Leu	Gln	Gly	Glu	Phe	Tyr	Arg	Gln	Phe	Ala	Leu
145					150					155					160
Thr	Ile	Ala	Ile	Ser	Thr	Ile	Leu	Ser	Ala	Ile	Asn	Ser	Leu	Thr	Leu
			165						170					175	
Ser	Pro	Ala	Leu	Ala	Ser	Val	Leu	Leu	Lys	Pro	His	Gln	Gly	Thr	Asp
		180					185						190		
Lys	Lys	Asp	Met	Leu	Thr	Arg	Val	Leu	Glu	Arg	Leu	Leu	Gly	Ser	Phe
		195					200					205			
Phe	Gly	Arg	Phe	Asn	Thr	Phe	Phe	Asp	Arg	Leu	Ser	Glu	Lys	Tyr	Val
	210					215					220				
Asp	Thr	Val	Arg	Arg	Ile	Val	Arg	Gly	Ser	Thr	Ile	Val	Leu	Ile	Leu
225					230					235					240
Tyr	Ala	Gly	Phe	Leu	Ala	Met	Thr	Phe	Leu	Gly	Phe	Lys	Gln	Val	Pro
			245						250					255	
Gly	Gly	Phe	Val	Pro	Ala	Gln	Asp	Lys	Tyr	Tyr	Leu	Val	Gly	Ile	Ala
		260						265					270		
Gln	Leu	Pro	Thr	Gly	Ala	Ser	Leu	Asp	Arg	Thr	Glu	Ala	Val	Val	Lys
		275					280					285			
Glu	Met	Thr	Arg	Leu	Ala	Leu	Ala	Gln	Pro	Gly	Val	Glu	Ser	Val	Val
	290					295					300				
Ala	Phe	Pro	Gly	Leu	Ser	Val	Asn	Gly	Pro	Asn	Met	Pro	Asn	Ser	Ala
305					310					315					320
Leu	Met	Phe	Thr	Met	Leu	Lys	Pro	Phe	Lys	Asp	Arg	Gln	Asp	Pro	Ser
			325						330					335	
Leu	Ser	Ala	Tyr	Ala	Ile	Ala	Gly	Ser	Leu	Met	Gly	Lys	Phe	Ser	Lys
		340					345					350			
Ile	Pro	Asp	Gly	Phe	Val	Gly	Ile	Phe	Pro	Pro	Pro	Pro	Val	Pro	Gly

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<210> 5876
<211> 93
<212> PRT
<213> Enterobacter cloacae
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<400> 5876
Leu Gln Gln Met Asn Gly Lys Ala Leu Asp Leu Thr Thr Val Val Ser

1		5		10		15									
Pro	Lys	Leu	Lys	Gly	Thr	Thr	Thr	Lys	Gln	Asp	Thr	Tyr	Met	Gln	Phe
		20					25					30			
His	Leu	Asp	Asn	Met	Thr	Cys	Gly	Gly	Cys	Ala	Arg	Thr	Val	Thr	Lys
	35						40					45			
Val	Ile	Gln	Asn	Leu	Asp	Pro	Asp	Ala	Ser	Ile	Val	Thr	Asp	Pro	Pro
	50					55					60				
Thr	Arg	Lys	Val	Glu	Ile	Gln	Thr	Leu	Leu	Ser	Val	Asp	Leu	Ile	Ser
65					70					75					80
Asp	Ala	Leu	Arg	Glu	Ala	Gly	Phe	Pro	Pro	Xaa	Glu				
				85					90						

<210> 5877

<211> 384

<212> PRT

<213> Enterobacter cloacae

<400> 5877

Pro	Pro	Ser	Val	Gln	Gly	Ala	Leu	Ala	Gly	Gly	Pro	Ser	Ala	Arg	Phe
1			5						10					15	
Arg	Gly	Thr	Gly	Asn	Arg	Cys	Gly	His	Cys	Leu	Arg	Ala	Thr	Phe	Leu
		20					25					30			
Pro	Ser	Pro	Thr	Arg	Arg	Phe	Ser	Ala	Ile	Thr	Ala	Glu	Tyr	Leu	Val
	35					40					45				
Thr	Ala	Ala	Gly	Tyr	His	Phe	Glu	Glu	Asn	Arg	Tyr	Ala	Ile	Gly	Glu
	50					55				60					
Gly	Glu	Thr	Ile	His	Arg	Thr	Asp	Phe	Ser	Val	Ile	Pro	Ala	Ser	Val
65				70					75						80
Ser	Tyr	Arg	Pro	Ala	Gln	Ser	Thr	Ala	Trp	Pro	Arg	Thr	Tyr	Gly	Pro
			85					90					95		
Gln	Thr	Ala	Lys	Val	Val	Gly	Pro	Gln	Gly	Glu	Ser	Ile	Trp	Thr	Asp
		100					105					110			
Lys	Tyr	Gly	Arg	Val	Lys	Val	Lys	Phe	His	Trp	Asp	Arg	Leu	Ala	Lys
	115						120					125			
Gly	Asp	Asp	Thr	Ser	Ser	Cys	Trp	Val	Arg	Val	Ser	Ser	Ala	Trp	Ala
	130					135					140				
Gly	Gln	Gly	Tyr	Gly	Gly	Val	Gln	Ile	Pro	Arg	Val	Gly	Asp	Glu	Val
145					150					155					160
Val	Val	Asp	Phe	Ile	Asn	Gly	Asp	Pro	Asp	Arg	Pro	Ile	Ile	Thr	Gly
			165					170						175	
Arg	Val	Tyr	Asn	Asp	Ala	Ser	Met	Pro	Pro	Trp	Ala	Leu	Pro	Ala	Ala
			180					185					190		
Ala	Thr	Gln	Met	Gly	Phe	Met	Ser	Arg	Ser	Lys	Asp	Gly	His	Lys	Asp
	195						200					205			
Asn	Ala	Asn	Ala	Leu	Arg	Phe	Glu	Asp	Lys	Ala	Gly	Gln	Glu	Gln	Ile
	210					215					220				
Trp	Ile	His	Ala	Glu	Lys	Asn	Met	Asp	Thr	Glu	Ile	Glu	Asn	Cys	Glu
225					230					235					240
Thr	His	Asp	Val	Gly	Val	Asp	Arg	Lys	Lys	Ile	Ile	Gly	Arg	Asp	Glu
			245						250					255	
His	Val	Thr	Val	Lys	Arg	Asn	Arg	Asp	Val	Asn	Val	Gly	Ala	Asn	Ser
			260					265					270		
Thr	Ser	Asn	Thr	Gly	Asn	Gln	His	Lys	Phe	Asn	Val	Gly	Lys	Asn	Gln
	275						280					285			
Thr	Val	Leu	Thr	Met	Asp	Lys	Glu	Gly	Asn	Ala	Leu	Leu	Glu	Ala	Thr
	290					295					300				
Thr	Ser	Ile	Lys	Leu	Lys	Val	Asn	Asp	Asn	Tyr	Ile	Leu	Ile	Thr	Pro
305					310					315					320
Ser	Thr	Ile	Glu	Ile	Ile	Val	Ser	Glu	Gly	Thr	Leu	Lys	Ala	Glu	Ser
			325						330					335	
Ile	Thr	Val	Ala	Ser	Phe	Lys	Gly	Thr	Glu	Leu	Thr	Lys	Leu	Gly	Gly

		340				345				350		
Gly	Ile	Asn	Ala	Glu	Met	Lys	Ala	Asn	Asp	Thr	Leu	His
		355					360				365	
Thr	Asn	Leu	Thr	Asp	Ile	Lys	Gly	Ala	Val	Val	Lys	Ile
		370				375					380	Asn
												Ser

<210> 5878

<211> 364

<212> PRT

<213> Enterobacter cloacae

<400> 5878

Tyr	Val	Glu	Gly	Phe	Leu	Asn	Met	Gly	Gln	Pro	Ala	Ala	Arg	Ala	Thr
1				5					10					15	
Ile	Asp	Val	Ser	Ala	His	Ser	Gly	Pro	Ile	Gln	Ser	Gly	Ser	Pro	Asp
		20					25					30			
Val	Ile	Ile	Gly	Gly	Phe	Pro	Ala	Ala	Arg	Lys	Gly	Asp	Thr	Leu	Ser
		35				40					45				
Cys	Ser	Thr	His	Gly	Ser	Gly	Ile	Ile	Val	Gly	Gly	Ser	Gly	Thr	Val
	50				55					60					
Phe	Val	Asn	Gly	Met	Pro	Leu	Ala	Arg	Gln	Gly	Asp	Lys	Thr	Lys	Cys
65				70					75						80
Asp	Val	Ser	Gly	Ser	Pro	Ala	Pro	Ala	Ile	Pro	Lys	Ala	Ala	Ala	Pro
			85					90					95		
Gln	Tyr	Trp	Gly	Gly	Thr	Leu	Ala	Lys	Asn	Ala	Gly	Glu	Asp	Gly	Met
			100					105					110		
Met	His	Gly	Glu	His	Phe	Asp	Ala	Arg	Val	Leu	Gly	Ala	Tyr	Ala	Ser
		115				120					125				
Leu	Glu	Asp	Lys	Asn	Leu	Asn	Gly	Asp	Phe	Asp	Thr	Ala	Ser	Ala	Gly
	130					135					140				
Phe	Ala	Leu	Ala	Asp	Ile	Thr	Ile	Gly	Asn	Met	Lys	Ser	Lys	Asp	Leu
145				150					155						160
Leu	Arg	Ala	Glu	Met	Arg	Asn	Lys	Leu	Ala	Val	Ala	Asn	Ala	Thr	Gly
			165					170						175	
Ser	Leu	Tyr	Gly	Gly	Gly	Asn	Asp	Ile	Tyr	Gly	Leu	Asn	Ala	Asn	Ala
			180					185					190		
Ala	Ala	Thr	Gly	Glu	Gln	Tyr	Gly	Gly	Ser	Val	Ala	Ala	Gly	Lys	Glu
		195					200					205			
Gly	Thr	Leu	Tyr	Gly	Gly	Val	Ser	Gly	Asp	Val	Thr	Ile	Gly	Thr	Ala
	210					215					220				
Glu	Ala	Lys	Ala	Val	Leu	Glu	Val	Tyr	Thr	Gly	Asn	Asp	Gly	Lys	Tyr
225					230					235					240
Gly	Leu	Thr	Ala	Asp	Ala	Gly	Ala	Glu	Ala	Lys	Gly	Met	Lys	Gly	Glu
			245					250						255	
Val	Ser	Gly	Asn	Leu	Asp	Ile	Leu	Gly	Ile	Val	Ser	Gly	Glu	Ala	Lys
			260					265					270		
Ile	Asp	Gly	Ser	Phe	Gly	Ser	Ala	Gly	Leu	Ala	Gly	Gly	Gly	Ser	Ala
		275					280					285			
Phe	Trp	Asp	Thr	Lys	Asp	Tyr	Ser	Val	Asn	Val	Arg	Val	Thr	Gly	Gly
	290					295					300				
Ala	Ala	Gly	Leu	Val	Trp	Leu	Lys	Gly	Asp	Ala	Ser	Leu	Lys	Val	Ala
305					310					315					320
Phe	Lys	Pro	Ile	Leu	Asp	Phe	Phe	Asp	Tyr	Leu	Tyr	Gly	Glu	Glu	Asp
			325					330						335	
Glu	Pro	Ala	Val	Thr	Ser	Val	Leu	Thr	Glu	Ser	Gly	Asp	Gly	Thr	Ile
			340					345					350		
Ile	Thr	Gly	Cys	Val	Thr	Val	Leu	Ile	Gly	Asp					
		355					360								

<210> 5879

<211> 130

<212> PRT

<213> Enterobacter cloacae

<400> 5879

```

Lys Arg Asp Thr Ile Tyr Ser Thr Gln Glu Ile Leu Met Ser Pro Phe
1           5           10           15
Ser Thr Leu Gln Leu Phe Lys Asn Leu Ser Asp Glu Thr Arg Leu Gly
          20           25           30
Ile Val Leu Met Leu Lys Glu Met Gly Glu Leu Cys Val Cys Asp Leu
          35           40           45
Cys Thr Ala Leu Glu Gln Ser Gln Pro Lys Ile Ser Arg His Leu Ala
          50           55           60
Met Leu Arg Glu Ser Gly Leu Leu Leu Asp Arg Lys Asn Gly Lys Trp
65           70           75           80
Val His Tyr Arg Leu Ser Pro His Ile Pro Ser Trp Ala Ala Gln Val
          85           90           95
Ile Glu Gln Ala Trp Leu Ser Gln Gln Asp Asp Val Gln Ala Ile Ala
          100          105          110
Arg Lys Leu Ala Ser Ala Asn Cys Ser Gly Ser Gly Lys Ala Val Cys
          115          120          125
Ile
          130

```

<210> 5880

<211> 131

<212> PRT

<213> Enterobacter cloacae

<400> 5880

```

His Leu Lys Ala Ala Val Val Ile Leu Leu Val Ala Glu Met Ser
1           5           10           15
Gly Gly His Met Lys Phe Leu Gln Asn Ile Pro Pro Tyr Leu Phe Phe
          20           25           30
Thr Gly Lys Gly Gly Val Gly Lys Thr Ser Ile Ser Cys Ala Thr Ala
          35           40           45
Ile Ser Leu Ala Glu Gln Gly Lys Arg Val Leu Leu Val Ser Thr Asp
          50           55           60
Pro Ala Ser Asn Val Gly Gln Val Phe Ser Gln Thr Ile Gly Asn Thr
65           70           75           80
Ile Leu Pro Val Ala Ser Val Pro Gly Leu Ser Ala Leu Glu Ile Asp
          85           90           95
Pro Gln Ala Ala Ala Gln Glu Tyr Arg Ala Arg Ile Val Asp Pro Ile
          100          105          110
Lys Gly Ile Leu Pro Glu Ser Ser Pro Arg Gly Trp Gln Asp Pro Ser
          115          120          125
Leu Ala Lys
          130

```

<210> 5881

<211> 111

<212> PRT

<213> Enterobacter cloacae

<400> 5881

```

Ala Phe Ile Arg Arg Thr Ile Met Glu Asn Ile Ala Leu Ile Gly Ile
1           5           10           15
Asp Leu Gly Lys Asn Ser Phe His Ile His Cys Gln Asp Arg Arg Gly
          20           25           30
Lys Ala Val Tyr Arg Lys Lys Phe Thr Arg Pro Lys Leu Ile Glu Phe
          35           40           45
Leu Ala Thr Cys Pro Ala Thr Thr Ile Ala Met Glu Ala Cys Gly Gly

```

50		55		60											
Ser	His	Phe	Met	Ala	Arg	Lys	Leu	Glu	Glu	Leu	Gly	His	Phe	Pro	Lys
65					70					75					80
Leu	Ile	Ser	Pro	Gln	Phe	Val	Arg	Pro	Phe	Val	Lys	Ser	Asn	Lys	Asn
				85					90					95	
Glu	Phe	Val	Asp	Ala	Val	Phe	Thr	Asn	Gly	Ala	Gly	Ser	Thr	Ile	
			100					105					110		

<210> 5882

<211> 318

<212> PRT

<213> Enterobacter cloacae

<400> 5882

Phe	Met	Asn	Ile	Lys	Arg	Leu	Val	Leu	Ser	Ala	Leu	Val	Val	Gly	Thr
1			5					10						15	
Ser	Ser	Tyr	Leu	Thr	Gly	Cys	Ser	Ile	Gly	Ser	Ser	Glu	Ser	Glu	Cys
			20					25				30			
Pro	Gly	Ile	Glu	Lys	Gly	Val	Ile	Cys	Lys	Gly	Pro	Arg	Glu	Val	Met
		35				40						45			
Glu	Leu	Thr	Asn	Asn	Arg	Asp	Asp	Leu	Ser	Ala	Leu	Ala	Gly	Glu	Glu
	50				55						60				
Ser	Glu	Ser	Gly	Lys	Glu	Lys	Ser	Ala	Val	Asn	Asp	Ser	Arg	Tyr	Pro
65				70						75				80	
Thr	Glu	Ile	Ser	Pro	Pro	Gly	Glu	Val	Lys	Tyr	Pro	Gln	Ser	Thr	Thr
			85					90					95		
Leu	Lys	Asn	Gln	Pro	Val	Ala	Tyr	Ser	Lys	Thr	Glu	Ile	Lys	Pro	Val
		100					105						110		
Gly	Gln	Leu	Pro	Val	Met	Tyr	Asp	Lys	Thr	Leu	Lys	Met	Gly	Ala	Pro
		115				120						125			
Thr	Ser	Ser	Ile	Gly	Pro	Arg	Pro	Ile	Ser	Gly	Val	Pro	Val	Asn	Ser
	130				135						140				
Asn	Val	Arg	Met	Thr	Ile	Ser	Tyr	Ser	Thr	Ala	Ser	Ser	Thr	Gly	Asn
145				150						155					160
Pro	Phe	Val	His	Pro	Ala	Ala	Glu	Val	Val	Lys	Gln	Thr	Ser	Tyr	Pro
			165						170					175	
Val	Ser	Ala	Gly	Asn	Ala	Pro	Arg	Tyr	Val	Ala	Pro	Asn	Ser	Asp	Ile
		180					185					190			
Ser	Pro	Gly	Lys	Asp	Met	Tyr	Ser	Leu	Tyr	Asn	Gly	Gln	Pro	Val	Asn
		195				200						205			
Pro	Thr	Leu	Asn	Pro	Gly	Gln	Ile	Gln	Gln	Tyr	Arg	Ser	Gln	Gly	Tyr
	210					215					220				
Lys	Gln	Ala	Val	Val	Ala	Pro	Glu	Pro	Leu	Ala	Val	Leu	Gln	Gln	Gly
225					230					235					240
Lys	Val	Met	Arg	Ile	Thr	Phe	Ala	Pro	Tyr	Thr	Asp	Asp	Asn	Asp	Ala
			245						250					255	
Leu	Asn	Leu	Pro	Gly	Tyr	Val	Tyr	Val	Asn	Val	Lys	Pro	Gln	Thr	Trp
		260					265						270		
Ile	Ala	Gly	Lys	Asn	Ser	Thr	Ser	Asn	Pro	Ala	Arg	Ile	Val	Pro	Leu
	275					280						285			
Glu	Val	Gln	Asp	Ala	Ala	Arg	Glu	Asn	Met	Gln	Gln	Gln	Gln	Lys	Ala
	290					295					300				
Thr	Lys	Ala	Val	Ser	Ser	Asn	Gly	Ile	Val	Arg	Gln	Leu			
305					310					315					

<210> 5883

<211> 590

<212> PRT

<213> Enterobacter cloacae

<400> 5883

Thr Pro Arg Lys Asn Ser Arg Trp Ala Glu Gly Phe Ile Asp Val Asn
 1 5 10 15
 Thr Met Lys Arg Leu Asn Glu Gln Val Asn Val Pro Gly Arg Lys Tyr
 20 25 30
 Thr Val Thr Glu Asn His Phe Ser Ser Val Thr Gln Ser Asp Asp Glu
 35 40 45
 Ser Glu His Arg Tyr Phe Lys Gln Leu Ser Val Val Lys Phe Pro Glu
 50 55 60
 Tyr Val Asn Phe Gly Cys Met Tyr Glu Leu Val Val Asn Trp Met His
 65 70 75 80
 Gly Arg Lys Thr Ile Phe Ser Pro Phe Met Ile Thr Gln Thr Val Gln
 85 90 95
 Phe Ala Asp Pro Leu Lys Leu Ser Lys Glu Asn Val Arg Tyr Lys Ala
 100 105 110
 Ile Thr Asn Lys Gln Ala Ser Ile Pro Ser Val Val Thr Phe Cys Pro
 115 120 125
 Arg Leu Arg Asp Met Asp Asn Asp Tyr Met Ala Val Thr Arg Glu Leu
 130 135 140
 Glu Asp Gly Ala Lys Leu Leu Arg Gly Tyr Leu Thr Phe Thr Val Met
 145 150 155 160
 Gly Ser Asn Ala Asn Ser Val Gln Thr Ala Ala Asn Asp Leu Lys Ser
 165 170 175
 Phe Tyr Leu Glu Ser Arg Val Lys Val Ala Asp Asp Ser Phe Ile Val
 180 185 190
 Phe Pro Ser Phe Met Ser Cys Leu Pro Met Cys Asn Asp Pro Lys Thr
 195 200 205
 Ile Phe Asp Leu Asp Arg Ser Glu Val Val Ser Asn Thr Gly Ala Ala
 210 215 220
 His Met Thr Pro Ile Phe Gly Pro Trp Lys Gly Asn Thr Asp Arg Pro
 225 230 235 240
 Val Leu Ser Leu Val Ser Arg Glu Gly Gln Leu Met Gly Leu Asp Ile
 245 250 255
 Phe Lys Thr Ser Ala Ser Tyr Asn Met Val Ile Gly Ala Thr Ser Gly
 260 265 270
 Ala Gly Lys Ser Phe Trp Thr Ala Tyr Leu Ile Asn Asn Tyr Leu Gly
 275 280 285
 Ala Gly Pro Arg Ser Asn Asn Leu Val His Tyr Arg Ser Thr Phe Lys
 290 295 300
 His Phe Leu Glu Asn Glu Tyr Pro Asp Asp Asp Pro Asp Gly Ala Gln
 305 310 315 320
 Val Phe Val Val Asp Val Gly Arg Ser Tyr Gln Gly Ile Ala Glu Gln
 325 330 335
 Tyr Thr Asn Ser Gln Phe Ile Asp Phe Gly Lys Thr Pro Asp Phe Thr
 340 345 350
 Leu Asn Pro Phe Ala Phe Leu Thr Asp Ile Thr Val Asn Asp Asp Val
 355 360 365
 Phe Asn Glu Ala Pro Glu Phe Thr Gly Glu Ser Thr Ser Asn Asp Ala
 370 375 380
 Glu Lys Asp Lys Val Ala Gln Thr Ile Met Val Leu Asn Gln Leu Lys
 385 390 395 400
 Ile Met Ala Ser Glu Lys Gly Leu Ile Asp Asp Tyr Gln Gln Ser Val
 405 410 415
 Met Leu Gln Leu Ile Ala Glu Glu Tyr Gln Glu Ser Arg Lys Ser Gly
 420 425 430
 Arg Thr Gly Ser Ile Thr Gly Phe Ala Leu Arg Cys Lys Lys His Glu
 435 440 445
 Asp Lys Arg Ile Lys Asp Ile Gly Glu Gln Leu Gly Ala Trp Cys Glu
 450 455 460
 Gly Gly Ile Tyr Gly His Arg Phe Thr Asp Thr Leu Pro Pro Ile Asn
 465 470 475 480
 Phe Asp Ser Arg Phe Ile Val Leu Glu Leu Glu Glu Leu Lys Gly Thr

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<210> 5884
<211> 516
<212> PRT
<213> Enterobacter cloacae
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<400>	5884														
Ser	Tyr	Thr	His	Ser	Gly	Gly	Pro	Ser	Gly	Pro	Val	Val	Lys	Thr	Gln
1				5					10					15	
Ser	Ser	Gly	Glu	Tyr	Leu	Leu	Glu	Met	Thr	Gly	Val	Asn	Lys	Ser	Phe
			20					25					30		
Pro	Gly	Val	Lys	Ala	Leu	Asp	Asn	Val	Asn	Leu	Lys	Val	Arg	Pro	His
			35				40					45			
Ser	Ile	His	Ala	Leu	Met	Gly	Glu	Asn	Gly	Ala	Gly	Lys	Ser	Thr	Leu
	50					55					60				
Leu	Lys	Cys	Leu	Phe	Gly	Ile	Tyr	Gln	Lys	Asp	Ser	Gly	Ser	Ile	Leu
65					70				75						80
Phe	Gln	Gly	Lys	Glu	Ile	Asp	Phe	His	Ser	Ala	Lys	Glu	Ala	Leu	Glu
				85					90					95	
Asn	Gly	Ile	Ser	Met	Val	His	Gln	Glu	Leu	Asn	Leu	Val	Leu	Gln	Arg
			100					105					110		
Ser	Val	Met	Asp	Asn	Met	Trp	Leu	Gly	Arg	Tyr	Pro	Thr	Lys	Gly	Val
		115					120					125			
Phe	Val	Asp	Gln	Asp	Lys	Met	Tyr	Arg	Asp	Thr	Lys	Ala	Ile	Phe	Asp
	130					135					140				
Glu	Leu	Asp	Ile	Asp	Ile	Asp	Pro	Arg	Ala	Arg	Val	Gly	Thr	Leu	Ser
145					150					155					160
Val	Ser	Gln	Met	Gln	Met	Ile	Glu	Ile	Ala	Lys	Ala	Phe	Ser	Tyr	Asp
				165					170					175	
Ala	Lys	Ile	Val	Ile	Met	Asp	Glu	Pro	Thr	Ser	Ser	Leu	Thr	Glu	Lys
			180					185					190		
Glu	Val	Asn	His	Leu	Phe	Thr	Ile	Ile	Arg	Lys	Leu	Lys	Asp	Arg	Gly
		195					200					205			
Cys	Gly	Ile	Val	Tyr	Ile	Ser	His	Lys	Met	Glu	Glu	Ile	Phe	Gln	Leu
	210					215					220				
Cys	Asp	Glu	Ile	Thr	Ile	Leu	Arg	Asp	Gly	Gln	Trp	Ile	Ala	Thr	Gln
225					230					235					240
Pro	Leu	Glu	Gly	Leu	Asp	Met	Asp	Lys	Ile	Ala	Met	Met	Val	Gly	
				245					250					255	
Arg	Ser	Leu	Asn	Gln	Arg	Phe	Pro	Asp	Lys	Glu	Asn	Lys	Pro	Gly	Glu
			260					265					270		
Val	Ile	Leu	Glu	Val	Arg	Asn	Leu	Thr	Ser	Leu	Arg	Gln	Pro	Ser	Ile
		275					280					285			
Arg	Asp	Val	Ser	Phe	Asp	Leu	His	Lys	Gly	Glu	Ile	Leu	Gly	Ile	Ala
	290				295						300				
Gly	Leu	Val	Gly	Ala	Lys	Arg	Thr	Asp	Ile	Val	Glu	Thr	Leu	Phe	Gly
305					310					315					320
Ile	Arg	Glu	Lys	Ala	Glu	Gly	Thr	Ile	Thr	Leu	His	Gly	Lys	Lys	Ile

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          325          330          335
Asn Asn His Asn Ala Asn Glu Ala Ile Asn Asn Gly Phe Ala Leu Val
          340          345          350
Thr Glu Glu Arg Arg Ser Thr Gly Ile Tyr Ala Tyr Leu Asp Ile Asn
          355          360          365
Phe Asn Ser Leu Ile Ser Asn Ile Arg Asn Tyr Lys Asn Lys Val Gly
          370          375          380
Leu Leu Asp Asn Ser Arg Met Lys Ser Asp Thr Gln Trp Val Ile Asp
385          390          395          400
Ser Met Arg Val Lys Thr Pro Gly His Arg Thr Gln Ile Gly Ser Leu
          405          410          415
Ser Gly Gly Asn Gln Gln Lys Val Ile Ile Gly Arg Trp Leu Leu Thr
          420          425          430
Gln Pro Glu Ile Leu Met Leu Asp Glu Pro Thr Arg Gly Ile Asp Val
          435          440          445
Gly Ala Lys Phe Glu Ile Tyr Gln Leu Ile Ala Glu Leu Ala Lys Lys
          450          455          460
Asp Lys Gly Ile Ile Ile Ile Ser Ser Glu Met Pro Glu Leu Leu Gly
465          470          475          480
Ile Thr Asp Arg Ile Leu Val Met Ser Asn Gly Leu Val Ala Gly Ile
          485          490          495
Val Glu Thr Lys Thr Thr Thr Gln Asn Glu Ile Leu Arg Leu Ala Ser
          500          505          510
Leu His Leu
          515

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<210> 5885

<211> 342

<212> PRT

<213> Enterobacter cloacae

<400> 5885

```

Asp Gln Gly Leu Leu Met Ser Ala Leu Asn Lys Lys Ser Phe Leu Thr
1          5          10          15
Tyr Leu Lys Glu Gly Gly Ile Tyr Val Val Leu Leu Val Leu Leu Ala
          20          25          30
Ile Ile Ile Phe Gln Asp Pro Thr Phe Leu Ser Leu Leu Asn Leu Ser
          35          40          45
Asn Ile Leu Thr Gln Ser Ser Val Arg Ile Ile Ile Ala Leu Gly Val
          50          55          60
Ala Gly Leu Ile Val Thr Gln Gly Thr Asp Leu Ser Ala Gly Arg Gln
65          70          75          80
Val Gly Leu Ala Ala Val Ile Ala Ala Thr Leu Leu Gln Ser Met Glu
          85          90          95
Asn Ala Asn Lys Val Phe Pro Glu Met Ala Thr Met Pro Ile Phe Val
          100          105          110
Val Ile Leu Ile Val Cys Ala Ile Gly Ala Val Ile Gly Leu Ile Asn
          115          120          125
Gly Ile Ile Ile Ala Tyr Leu Asn Val Thr Pro Phe Ile Thr Thr Leu
          130          135          140
Gly Thr Met Ile Ile Val Tyr Gly Ile Asn Ser Leu Tyr Tyr Asp Phe
145          150          155          160
Val Gly Ala Ser Pro Ile Ser Gly Phe Asp Ser Gly Phe Ser Thr Phe
          165          170          175
Thr Gln Gly Phe Val Ala Leu Gly Ser Phe Arg Leu Ser Tyr Ile Thr
          180          185          190
Phe Tyr Ala Leu Ile Ala Val Ala Phe Val Trp Ile Leu Trp Asn Lys
          195          200          205
Thr Arg Phe Gly Lys Asn Ile Phe Ala Ile Gly Gly Asn Pro Glu Ala
          210          215          220
Ala Lys Val Ser Gly Val Asn Val Ala Leu Asn Leu Leu Met Ile Tyr

```

225 230 235 240
 Ala Leu Ser Gly Val Phe Tyr Ala Phe Gly Gly Met Leu Glu Ala Gly
 245 250 255
 Arg Ile Gly Ser Ala Thr Asn Asn Leu Gly Phe Met Tyr Glu Leu Asp
 260 265 270
 Ala Ile Ala Ala Cys Val Val Gly Gly Val Ser Phe Ser Gly Gly Val
 275 280 285
 Gly Thr Val Leu Gly Val Val Thr Gly Val Ile Ile Phe Thr Val Ile
 290 295 300
 Asn Tyr Gly Leu Thr Tyr Ile Gly Val Asn Pro Tyr Trp Gln Tyr Ile
 305 310 315 320
 Ile Lys Gly Ala Ile Ile Phe Ala Val Ala Leu Asp Ser Leu Lys
 325 330 335
 Tyr Ala Arg Lys Lys
 340

<210> 5886

<211> 292

<212> PRT

<213> Enterobacter cloacae

<400> 5886

Leu Leu Leu Ile Lys Thr Arg Ser Gln Thr Met Ser Lys Val Lys Thr
 1 5 10 15
 Ile Thr Arg Glu Ser Trp Ile Leu Ser Thr Phe Pro Glu Trp Gly Ser
 20 25 30
 Trp Leu Asn Glu Glu Ile Glu Gln Glu Gln Val Ala Pro Gly Thr Phe
 35 40 45
 Ala Met Trp Trp Leu Gly Cys Thr Gly Ile Trp Leu Lys Ser Glu Gly
 50 55 60
 Gly Ala Asn Ile Cys Val Asp Phe Trp Cys Gly Thr Gly Lys Gln Ser
 65 70 75 80
 His Gly Asn Pro Leu Met Lys Lys Gly His Gln Met Gln Arg Met Ala
 85 90 95
 Gly Val Glu Lys Leu Gln Pro Asn Leu Arg Thr Thr Pro Phe Val Leu
 100 105 110
 Asp Pro Phe Ala Ile Arg Gln Ile Asp Ala Val Leu Ser Thr His Asp
 115 120 125
 His Asn Asp His Ile Asp Val Asn Val Ala Ala Val Met Gln Asn
 130 135 140
 Cys Ala Asp Asp Val Pro Phe Ile Gly Pro Gln Thr Cys Val Asp Leu
 145 150 155 160
 Trp Ile Gly Trp Gly Val Pro Lys Glu Arg Cys Ile Val Met Lys Pro
 165 170 175
 Gly Asp Val Val Lys Ile Lys Asp Ile Glu Ile His Ala Leu Asp Ala
 180 185 190
 Phe Asp Arg Thr Ala Leu Ile Thr Leu Pro Ala Asp Gln Lys Ala Ala
 195 200 205
 Gly Val Leu Pro Asp Gly Met Asp Glu Arg Ala Val Asn Tyr Leu Phe
 210 215 220
 Lys Thr Pro Gly Gly Ser Leu Tyr His Ser Gly Asp Ser His Tyr Ser
 225 230 235 240
 Asn Tyr Tyr Ala Lys His Gly Asn Glu His Gln Ile Asp Val Ala Leu
 245 250 255
 Gly Ser Tyr Gly Glu Asn Pro Arg Gly Ile Thr Asp Lys Met Thr Ser
 260 265 270
 Ala Asp Met Leu Arg Met Ala Glu Ala Leu Lys Thr Gln Met Val Asn
 275 280 285
 Pro Val Gln Gln
 290

<210> 5887
 <211> 268
 <212> PRT
 <213> Enterobacter cloacae

<400> 5887

```

His Gln Pro His Arg Asp Cys Pro Leu Cys Ser His Phe Leu Glu Arg
1          5          10          15
Val Met Glu Ile Leu Tyr Asn Val Phe Thr Val Phe Phe Asn Gln Val
20          25          30
Met Thr Asn Ala Pro Leu Leu Leu Gly Ile Val Thr Cys Leu Gly Tyr
35          40          45
Ile Leu Leu Arg Lys Ser Val Ser Val Ile Ile Lys Gly Thr Ile Lys
50          55          60
Thr Ile Ile Gly Phe Met Leu Leu Gln Ala Gly Ser Gly Ile Leu Thr
65          70          75          80
Ser Thr Phe Lys Pro Val Val Ala Lys Met Ser Glu Val Tyr Gly Ile
85          90          95
Asn Gly Ala Ile Ser Asp Thr Tyr Ala Ser Met Met Ala Thr Ile Asp
100         105         110
Arg Met Gly Asp Ala Tyr Ser Trp Val Gly Tyr Ala Val Leu Leu Ala
115         120         125
Leu Ala Leu Asn Ile Ile Tyr Val Leu Leu Arg Arg Ile Thr Gly Ile
130         135         140
Arg Thr Ile Met Leu Thr Gly His Ile Met Phe Gln Gln Ala Gly Leu
145         150         155         160
Ile Ala Val Ser Leu Tyr Ile Phe Gly Tyr Pro Met Trp Thr Thr Val
165         170         175
Ile Cys Thr Ala Val Leu Val Ser Leu Tyr Trp Gly Ile Thr Ser Asn
180         185         190
Met Met Tyr Lys Pro Thr Gln Asp Val Thr Asp Gly Cys Gly Phe Ser
195         200         205
Ile Gly His Gln Gln Gln Phe Ala Ser Trp Ile Ala Tyr Lys Val Ala
210         215         220
Pro Tyr Leu Gly Lys Lys Glu Glu Ser Val Glu Asp Leu Lys Leu Pro
225         230         235         240
Gly Trp Leu Asn Ile Phe His Asp Asn Ile Val Ser Thr Ala Ile Val
245         250         255
Met Thr Ile Phe Gly Ala Met Ser Ser His Thr
260         265

```

<210> 5888
 <211> 130
 <212> PRT
 <213> Enterobacter cloacae

<220>
 <221> UNSURE
 <222> (130)

<400> 5888

```

Thr Arg Arg Ser Ser Leu Pro Arg Gly His Asp Met Arg Gly Asp Cys
1          5          10          15
Arg Arg Cys Gln Pro Ala Ser Val Arg Gly Phe Ile Thr Cys Thr Ser
20          25          30
Glu Asn Ala Asp Pro Arg Ala Asp Arg Glu Glu Pro Met Ile Pro Leu
35          40          45
Pro Ser Gly Thr Arg Ile Trp Leu Val Ala Gly Val Thr Asp Met Arg
50          55          60
Lys Ser Phe Asn Gly Leu Gly Glu Leu Val Gln His Val Leu Asp Asp
65          70          75          80

```


Asn Pro Phe Ser Gly His Leu Phe Ile Phe Arg Gly Arg Lys Gly Asp
 85 90 95
 Thr Val Arg Ile Leu Trp Ala Asp Ala Asp Gly Leu Cys Leu Phe Thr
 100 105 110
 Arg Pro Leu Glu Glu Gly Leu Ser Thr Arg Arg Asp Gly Arg Glu Lys
 115 120 125
 Val Xaa
 130

<210> 5889

<211> 140

<212> PRT

<213> Enterobacter cloacae

<400> 5889

Trp Thr Leu Ser Met Ser Asn Thr Leu Gln Pro Arg Arg Ala Arg Ala
 1 5 10 15
 Ser Tyr Ser Met Asp Phe Lys Leu Ala Leu Val Glu Lys Ser Tyr Gln
 20 25 30
 Pro Gly Ala Cys Val Ala Arg Leu Ala Arg Asp Asn Gly Ile Asn Asp
 35 40 45
 Asn Leu Leu Phe Thr Trp Arg Gln Arg Tyr Arg His Leu Leu Pro Asp
 50 55 60
 Glu Ile Gln Arg Ser Ile Arg Glu Gln Asp Ser Val Ile Pro Val Val
 65 70 75 80
 Leu Pro Asp Met Ala Leu Ser His His Ala Glu Pro His Tyr Glu Pro
 85 90 95
 Ala Ala Pro Ala Cys Arg Glu Ala Met Thr Cys Glu Val Thr Val Gly
 100 105 110
 Gly Ala Ser Leu Arg Leu Ser Gly Asp Leu Ser Pro Ala Leu Leu Lys
 115 120 125
 Thr Leu Ile Arg Glu Leu Thr Gly Arg Ser Arg
 130 135 140

<210> 5890

<211> 211

<212> PRT

<213> Enterobacter cloacae

<400> 5890

Ser Gly Ala Val Met Met Asn Lys Leu Gln Glu Arg Tyr Ala Arg Ile
 1 5 10 15
 Ile Ala Ile Met Asn Asn Lys Gly Gly Pro Gly Lys Thr Ser Ser Ala
 20 25 30
 Thr Asn Leu Ala Val His Tyr Ala Arg Ser Gly Lys Arg Thr Leu Leu
 35 40 45
 Ile Asp Ser Asp Gln Gln Ala Asn Thr Thr Glu Val Thr Ala Asn Gly
 50 55 60
 Lys Lys Tyr Tyr Ser Met Tyr Gly Pro Thr Ile Cys Asp Leu Tyr Ser
 65 70 75 80
 Asn Ser Arg Phe Asp Ile Arg Asp Val Ile Ile Pro Ala Met Ala Gly
 85 90 95
 Asp Ala Pro Ile Pro Asn Leu Asp Leu Ile Pro Ser Asp Pro Thr Phe
 100 105 110
 Glu Lys Ile Ile Glu Gln Thr Leu Thr Arg Ser His Arg Glu Lys Ile
 115 120 125
 Leu Gly Arg His Leu Glu Lys Val Arg Thr Glu Tyr Asp Tyr Ile Ile
 130 135 140
 Ile Asp Cys Ala Pro Gly Leu Asn Ile Ala Thr Gly Asn Ala Ile Phe
 145 150 155 160
 Ile Ala Asp His Val Leu Val Pro Val Asp Gly Gly Ser Phe Ser Leu

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<210> 5891
<211> 404
<212> PRT
<213> Enterobacter cloacae
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<220>
<221> UNSURE
<222> (28)

<400> 5891																
Thr 1	Cys	Phe	Ile	Leu 5	Gly	Ala	Asn	Met	Asp 10	Arg	Val	Ser	His	Phe 15	Val	
Leu	Ala	Leu	Val 20	Val	Val	Thr	Ala	Leu 25	Ala	Leu	Xaa	Val	Ser 30	Thr	Asp	
Arg	Lys	Lys 35	Ile	Arg	Met	Arg	Tyr 40	Val	Val	Gln	Leu 45	Leu	Val	Ile	Glu	
Val	Leu 50	Leu	Ala	Trp	Phe	Phe 55	Leu	Asn	Ser	Asn	Val 60	Gly	Leu	Gly	Phe	
Val 65	Lys	Gly	Phe	Ser	Glu 70	Met	Phe	Glu	Lys	Leu 75	Leu	Gly	Phe	Ala	Asn 80	
Glu	Gly	Thr	Asn 85	Val	Phe	Gly	Ser	Met 90	Asn	Asp	Gln	Gly	Leu 95	Ala		
Phe	Phe	Phe	Leu 100	Lys	Val	Leu	Cys	Pro 105	Ile	Val	Phe	Ile	Ser 110	Ala	Leu	
Ile	Gly	Ile	Leu 115	Gln	His	Ile	Arg	Val 120	Leu	Pro	Val	Val	Ile 125	Arg	Ala	
Ile	Gly 130	Phe	Leu	Leu	Ser	Lys 135	Val	Asn	Gly	Met	Gly 140	Lys	Leu	Glu	Ser	
Phe 145	Asn	Ala	Val	Ser	Ser	Leu 150	Ile	Leu	Gly	Gln 155	Ser	Glu	Asn	Phe	Ile 160	
Ala	Tyr	Lys	Asp 165	Ile	Leu	Gly	Lys	Met	Ser 170	Arg	Asn	Arg	Met	Tyr 175	Thr	
Met	Ala	Ala	Thr 180	Ala	Met	Ser	Thr	Val 185	Ser	Met	Ser	Ile	Val 190	Gly	Ala	
Tyr	Met	Thr 195	Met	Leu	Glu	Pro	Lys 200	Tyr	Val	Val	Ala	Ala	Leu 205	Val	Leu	
Asn	Met	Phe	Ser	Thr	Phe	Ile 215	Val	Leu	Ser	Leu	Ile 220	Asn	Pro	Tyr	Arg	
Val 225	Asp	Ala	Ser	Glu	Glu 230	Asn	Ile	Gln	Met	Ser	Asn 235	Leu	His	Glu	Gly 240	
Gln	Ser	Phe	Phe 245	Glu	Met	Leu	Gly	Glu	Tyr 250	Ile	Leu	Ala	Gly	Phe 255	Lys	
Val	Ala	Ile	Ile 260	Val	Ala	Ala	Met	Leu 265	Ile	Gly	Phe	Ile	Ala 270	Leu	Ile	
Ala	Ala	Leu 275	Asn	Ala	Leu	Phe	Ala 280	Ala	Val	Leu	Gly	Ile 285	Ser	Phe	Gln	
Gly	Ile	Leu 290	Gly	Tyr	Ile	Phe 295	Tyr	Pro	Val	Ala	Trp 300	Val	Met	Gly	Val	
Pro 305	Ala	His	Glu	Ala	Leu 310	Gln	Val	Gly	Ser	Ile 315	Met	Ala	Thr	Lys	Leu 320	
Val	Ser	Asn	Glu 325	Phe	Val	Ala	Met	Met	Asp 330	Leu	Gln	Lys	Ile	Ala 335	Ser	
Thr	Leu	Ser	Pro	Arg	Ala	Glu	Gly	Ile	Leu	Ser	Val	Phe	Leu	Val	Ser	

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          340          345          350
Phe Ala Asn Phe Ser Ser Ile Gly Ile Ile Ala Gly Ala Ile Lys Gly
      355          360          365
Leu Asn Glu Glu Gln Gly Asn Val Val Ser Arg Phe Gly Leu Lys Leu
      370          375          380
Val Tyr Gly Ser Thr Leu Val Ser Val Leu Ser Ala Ser Ile Ala Ala
      385          390          395          400
Leu Val Leu

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<210> 5892

<211> 217

<212> PRT

<213> Enterobacter cloacae

<400> 5892

```

Asn Leu Glu Ile Pro Ile Pro Gly Trp Lys Ser Asp Trp Arg Asp His
1          5          10          15
Pro Pro Leu Thr Val Leu Phe Pro Val Ile Gly His Leu Asn Leu Ser
      20          25          30
Asn Arg Leu Asn Leu Lys Leu Leu Glu Lys Leu Leu Met Trp Met Arg
      35          40          45
Ser Asn Arg Ser Gly Arg Ala Gly Thr Arg Phe Ser Val Asn Leu Met
      50          55          60
Pro Leu Thr Leu Met Gln Asn Glu Ile Ala Ala Glu Ile Ile Ala Leu
      65          70          75          80
Phe Glu Arg Tyr Ala Ile Ala Pro Gln Asn Ile Ile Ile Glu Ile Thr
      85          90          95
Glu Glu Gln Ala Phe Ser Asp Ser Gly Ser Ser Ile Lys Asn Ile Gln
      100          105          110
Gln Leu Arg Asp Tyr Gly Phe Arg Ile Ala Ile Asp Asp Phe Gly Thr
      115          120          125
Gly Tyr Ala Asn Phe Glu Arg Leu Lys Arg Leu Glu Ala Asp Ile Ile
      130          135          140
Lys Ile Asp Gly Cys Phe Val Lys Asp Ile Cys Thr Asp Ser Met Asp
      145          150          155          160
Ala Met Ile Val Gln Ser Ile Cys Asn Met Ala Lys Thr Lys Ser Leu
      165          170          175
Cys Val Val Ala Glu Tyr Val Glu Thr Ala Glu Gln Arg Glu Met Leu
      180          185          190
Leu Arg Phe Gly Val Asp Tyr Leu Gln Gly Tyr Leu Ile Gly Lys Pro
      195          200          205
Gln Pro Leu Thr Ala Leu Glu Ala
      210          215

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<210> 5893

<211> 291

<212> PRT

<213> Enterobacter cloacae

<400> 5893

```

Tyr Met Asp Gln Ala Gly Ile Ile Arg Asp Leu Leu Thr Trp Leu Glu
1          5          10          15
Gly His Leu Asp Gln Pro Leu Ser Leu Asp Asn Val Ala Ala Lys Ala
      20          25          30
Gly Tyr Ser Lys Trp His Leu Gln Arg Met Phe Lys Asp Val Thr Gly
      35          40          45
His Ala Ile Gly Ala Tyr Ile Arg Ala Arg Arg Leu Ser Lys Ser Ala
      50          55          60
Val Ala Leu Arg Leu Thr Ala Arg Pro Ile Leu Asp Ile Ala Leu Gln
      65          70          75          80

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Tyr Arg Phe Asp Ser Gln Gln Thr Phe Thr Arg Ala Phe Lys Lys Gln
 85 90 95
 Phe Ser Leu Thr Pro Ala Leu Tyr Arg Arg Ser Pro Asp Trp Ser Ser
 100 105 110
 Phe Gly Met Arg Pro Pro Leu Arg Leu Gly Glu Phe Ala Met Pro Lys
 115 120 125
 Tyr Glu Ile Ile Thr Leu Pro Glu Thr His Leu Val Gly Thr Thr Gln
 130 135 140
 Ser Tyr Ser Cys Ser Leu Glu Gln Ile Ser Glu Phe Arg His Gln Met
 145 150 155 160
 Arg Val Gln Phe Trp Arg Glu Phe Leu Ser His Ala Pro Ala Ile Pro
 165 170 175
 Pro Ile Leu Tyr Gly Leu Asn Glu Thr His Pro Ser Gln Glu Lys Asp
 180 185 190
 Asp Glu Gln Glu Val Phe Tyr Thr Thr Ala Leu Thr Pro Asp Met Ala
 195 200 205
 Asn Gly Tyr Ile His Gly Ser Lys Pro Val Val Leu Glu Gly Gly Glu
 210 215 220
 Tyr Val Met Phe Ser Tyr Glu Gly Leu Gly Thr Gly Val Gln Glu Phe
 225 230 235 240
 Ile Leu Thr Val Tyr Gly Thr Cys Met Pro Met Leu Asn Leu Asn Arg
 245 250 255
 Arg Lys Gly Gln Asp Ile Glu Arg Tyr Tyr Pro Ala Gln Asp Ala Lys
 260 265 270
 Pro Glu Glu Gly Pro Ile Asn Leu Arg Met Glu Phe Leu Ile Pro Val
 275 280 285
 Arg Arg
 290

<210> 5894

<211> 67

<212> PRT

<213> Enterobacter cloacae

<400> 5894

Leu Met Glu Ser Glu Ala Arg Arg Phe Ile Ala Leu Val Asp Glu Phe
 1 5 10 15
 Tyr Glu Arg His Val Lys Leu Val Val Ser Ala Glu Val Pro Leu Tyr
 20 25 30
 Glu Ile Tyr Gln Gly Glu Arg Leu Lys Ser Glu Phe Gln Arg Cys Leu
 35 40 45
 Ser Arg Leu Gln Glu Met Gln Ser Glu Glu Tyr Leu Lys Arg Glu His
 50 55 60
 Met Pro
 65

<210> 5895

<211> 144

<212> PRT

<213> Enterobacter cloacae

<400> 5895

Gly Pro Pro Thr Arg Pro Val Lys Arg Pro Lys Leu Asp Glu Asp Glu
 1 5 10 15
 Ile Gly Gln Arg Leu Leu Ser Ile Pro Cys Val Gly Thr Leu Thr Ala
 20 25 30
 Ser Thr Ile Ser Thr Glu Ile Gly Asp Gly Lys Gln Tyr Ala Ser Ser
 35 40 45
 Arg Asp Phe Ala Ala Ala Thr Gly Leu Val Pro Arg Gln Tyr Ser Thr
 50 55 60
 Gly Gly Arg Thr Thr Leu Leu Gly Ile Ser Lys Arg Gly Asn Lys Lys

65					70					75					80
Ile	Arg	Thr	Leu	Leu	Val	Gln	Cys	Ala	Arg	Val	Phe	Ile	Gln	Lys	Leu
				85					90					95	
Glu	His	Gln	Ser	Gly	Lys	Leu	Ala	Asp	Trp	Val	Arg	Asp	Leu	Leu	Cys
			100					105					110		
Arg	Lys	Ser	Asn	Phe	Val	Val	Thr	Cys	Ala	Leu	Ala	Asn	Lys	Leu	Ala
		115					120					125			
Arg	Ile	Ala	Trp	Ala	Leu	Thr	Ala	Arg	Gln	Gln	Thr	Tyr	Val	Ala	
	130					135					140				

<210> 5896

<211> 294

<212> PRT

<213> Enterobacter cloacae

<400> 5896

Lys	Gly	Leu	Leu	Val	Met	Gln	Glu	Gln	Glu	Ile	Trp	Thr	Pro	Gln	Lys
1				5					10					15	
Ala	Ala	Ile	Arg	Leu	Thr	Lys	Ile	Cys	Asp	Thr	Phe	Ser	Glu	Ile	His
			20					25					30		
Gly	Thr	Glu	Arg	Phe	Pro	Val	Asn	Val	Glu	Glu	Leu	Ser	Leu	Glu	Ala
		35					40					45			
Ala	Glu	Leu	Phe	Lys	Trp	Ala	Asp	Pro	Ile	Val	Lys	Ile	Glu	Pro	Val
	50					55					60				
Asp	Ile	Lys	Gly	Phe	Asp	Gly	Ala	Leu	Met	Ala	Asn	Glu	Ser	Arg	Ser
65					70				75					80	
Arg	Trp	Met	Leu	Leu	Tyr	Asn	Asn	Gly	Leu	Thr	Ser	Pro	Gly	Arg	Ile
			85						90				95		
Arg	Phe	Thr	Gln	Ala	His	Glu	Leu	Gly	His	Tyr	Ile	Leu	His	Arg	Leu
			100					105					110		
Ile	Arg	Asp	Glu	Phe	Arg	Cys	Ser	Ser	Asp	Asp	Met	Leu	Ser	Trp	Glu
		115					120					125			
Asp	Lys	Asn	Ile	Glu	Ser	Glu	Ala	Asp	Leu	Phe	Ala	Ser	Tyr	Leu	Leu
	130					135					140				
Met	Pro	Phe	Asn	Asp	Phe	Arg	Lys	Gln	Leu	Thr	Pro	Asp	Val	Asp	Ile
145				150					155					160	
Asp	Val	Leu	Ser	Gln	Tyr	Ala	Ile	Arg	Tyr	Gly	Val	Ser	Leu	Thr	Ala
			165						170					175	
Ala	Ala	Leu	Lys	Trp	Leu	Glu	Cys	Thr	Glu	Glu	Asn	Ala	Val	Phe	Ile
			180					185					190		
Leu	Ser	Arg	Asp	Gly	Tyr	Met	Lys	Trp	Ala	Phe	Ser	Ser	Pro	Ala	Ala
		195					200					205			
Arg	His	Asn	Gly	Ala	Phe	Phe	Arg	Thr	Gln	Arg	Asn	Val	Val	Ser	Ile
	210					215					220				
Pro	Glu	Gly	Ser	Ile	Ala	Asn	Gln	Asn	Ile	Ser	Met	Glu	Arg	Ala	
225				230					235					240	
Gly	Met	Lys	Ile	Pro	Ala	Ser	Ile	Trp	Phe	Pro	His	Ala	Asp	Lys	Asp
			245						250					255	
Ala	Ser	Val	Arg	Glu	Met	Lys	Ile	His	Ser	Glu	Gln	Tyr	Glu	Tyr	Val
			260				265						270		
Ile	Thr	Leu	Leu	Ile	Leu	Ser	Arg	Lys	Thr	Thr	Val	Trp	Pro	Pro	Phe
		275					280					285			
His	Gly	Glu	Asp	Glu											
	290														

<210> 5897

<211> 98

<212> PRT

<213> Enterobacter cloacae

<400> 5897

Cys Leu His Lys Pro His Glu Asp Ile Pro Met Lys Lys Arg Phe Ser
 1 5 10 15
 Asp Glu Gln Ile Ile Ser Ile Leu Arg Glu Ala Glu Val Pro
 20 25 30
 Ala Arg Glu Leu Cys Arg Lys His Ala Ile Ser Asp Ala Thr Phe Tyr
 35 40 45
 Ile Trp Arg Lys Lys Tyr Gly Gly Met Glu Val Pro Glu Val Lys Arg
 50 55 60
 Leu Lys Ser Leu Glu Glu Asn Ala Arg Leu Lys Lys Leu Leu Ala
 65 70 75 80
 Glu Ala Met Leu Asp Lys Glu Ala Leu Gln Val Ala Leu Gly Arg Lys
 85 90 95
 Tyr

<210> 5898

<211> 62

<212> PRT

<213> Enterobacter cloacae

<400> 5898

Arg Gly Ala Ser Gly Gly Ser Trp Ala Lys Val Leu Thr Thr Asp Gln
 1 5 10 15
 Lys Arg Glu Thr Val Met Leu Met Cys Asp Ala Asn Gly Leu Ser Gln
 20 25 30
 Arg Arg Ala Cys Arg Leu Thr Gly Phe Ile Leu Ser Thr Cys Arg Tyr
 35 40 45
 Glu Ala Gln Arg Pro Ala Ala Asp Ala His Leu Ser Gly Arg
 50 55 60

<210> 5899

<211> 171

<212> PRT

<213> Enterobacter cloacae

<400> 5899

Asn Leu Asn Phe Cys His Ile Ser Leu Thr Val Leu Ser Ala Met Asn
 1 5 10 15
 Ile Thr Glu Leu Val Phe Ile Asp Asp Tyr Asn His Val Val Ile
 20 25 30
 Met Ser Asp Val Val Gln Arg Leu His Leu Tyr Arg Gln Leu His Tyr
 35 40 45
 Ala Ser Thr Glu Ala Gly Gly Thr Leu Ile Gly Glu Arg Arg Gly Lys
 50 55 60
 His Ile Val Ile Thr His Ile Ser Glu Pro Gly Ser Gly Asp Val Arg
 65 70 75 80
 Ser Arg Thr Arg Ile Glu Arg Lys Gly Glu His His Gln Gln Lys Val
 85 90 95
 Asp Asp Leu Phe Gln Gln Ser Asp Gly Ser Leu Val Tyr Leu Gly Glu
 100 105 110
 Trp His Thr His Pro Glu Asp Phe Pro Gln Pro Ser Ser Thr Asp Met
 115 120 125
 Arg Ser Trp Arg Thr Gly Leu Lys Ala Thr Glu Pro Met Val Leu Leu
 130 135 140
 Ile Met Gly Arg Lys Gln Ala Trp Cys Gly Lys Lys His Gly Asn Val
 145 150 155 160
 Ile Lys Lys Leu Glu Glu Lys Asn Asn His
 165 170

<210> 5900

<211> 374

<212> PRT

<213> Enterobacter cloacae

<400> 5900

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Ile Met Val Cys His Met Thr Pro Pro Val Ala Leu Phe Lys Gly Cys
1      5      10      15
Val Met Gln Asp Leu His Ser Lys Asp Ser Val Ile Asn His Tyr Ala
20      25      30
Asp Arg Tyr Gln Cys Tyr Met Pro Ile Asp Val Arg Asn Gly Leu Arg
35      40      45
Ser Asn Ser Ile Asp Ala Ser Asn Ser Ser Leu Pro Trp Asp Val Thr
50      55      60
Leu Pro Leu Val Thr Thr Glu Asp Val Ser Arg Asp Lys Ala Leu Gly
65      70      75      80
Ala Phe Val Gly Leu Ala Val Gly Asp Ala Val Gly Thr Thr Leu Glu
85      90      95
Phe Lys Lys Arg Asp Ser Glu His Val Ala Asp Met Ile Gly Gly Gly
100     105     110
Pro Phe Gln Leu Lys Pro Gly Glu Trp Thr Asp Asp Thr Ser Met Ala
115     120     125
Leu Cys Leu Ala Glu Thr Tyr Leu Ser Glu Asn Arg Met His Thr Asp
130     135     140
Val Leu Arg Lys Tyr Leu Leu Lys Trp Tyr Leu Asp Gly Glu Asn Ser
145     150     155     160
Ser Asn Gly Arg Cys Phe Asp Ile Gly Asn Thr Thr Arg Phe Ala Leu
165     170     175
Glu Gln Tyr Met Arg Val Gly Pro Ser Trp Tyr Gly Asn Thr Glu Lys
180     185     190
His Thr Ala Gly Asn Ala Gly Val Ile Arg Gln Ala Pro Val Ser Ile
195     200     205
Phe Arg Arg Lys Ser Leu Arg Ala Ile Tyr Phe Glu Ser Gln Ala Gln
210     215     220
Ser Arg Ala Thr His Gly Ala Val Glu Ser Ile Asn Ala Cys Gln Phe
225     230     235     240
Leu Gly Leu Val Leu His Tyr Leu Ile Asn Gly Tyr Gln Lys Glu Gly
245     250     255
Ala Phe Ser Pro His Val Phe Pro Leu Cys Ala Arg Val Met Ile Ile
260     265     270
Asn Ala Gly Glu Tyr Lys Gln Lys Thr Arg Asp Gln Ile Arg Ser Ser
275     280     285
Gly Tyr Val Ile Asp Thr Leu Glu Ala Ala Met Trp Ser Val Trp Asn
290     295     300
Thr Asp Asn Phe Arg Asp Ala Ile Leu Leu Ala Ala Asn Leu Ala Asp
305     310     315     320
Asp Ala Asp Ser Val Ala Ala Thr Ala Gly Gln Ile Ala Gly Ala Leu
325     330     335
Tyr Gly Tyr Ser Ala Ile Pro Gln Asp Trp Lys Asp Lys Leu Val Gln
340     345     350
His Glu Arg Ile Ala Thr Met Ala Gly Lys Leu Phe Asp Arg Ala Pro
355     360     365
Glu Asp Asn Phe Leu
370

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<210> 5901

<211> 83

<212> PRT

<213> Enterobacter cloacae

<400> 5901

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Phe Asp Thr Ser Gln Val Arg Met Arg Thr Met Lys Lys Trp Ala Val
1      5      10      15

```

Ile Ile Ser Ala Val Gly Leu Ala Phe Ala Val Ser Gly Cys Ser Ser
 20 25 30
 Asp Tyr Val Met Ser Thr Lys Asp Gly Arg Met Ile Leu Thr Asp Gly
 35 40 45
 Lys Pro Glu Val Asp Asp Asp Thr Gly Leu Val Ser Tyr Arg Asp Arg
 50 55 60
 Glu Gly Asn Gln Met Gln Ile Asn Arg Asp Glu Val Ser Gln Ile Ile
 65 70 75 80
 Glu Arg

<210> 5902

<211> 153

<212> PRT

<213> Enterobacter cloacae

<400> 5902

Lys Arg Lys Pro Ala Met His Tyr His Arg Ile Pro His Ser Ala Leu
 1 5 10 15
 Glu Ile Ser Gln Leu Gly Leu Gly Thr Met Thr Phe Gly Glu Gln Asn
 20 25 30
 Ser Glu Ala Asp Ala His Ala Gln Leu Asp Tyr Ala Val Ser Gln Gly
 35 40 45
 Ile Asn Leu Ile Asp Val Ala Glu Met Tyr Pro Val Pro Pro Arg Pro
 50 55 60
 Glu Thr Gln Gly Leu Thr Glu Thr Tyr Val Gly Asn Trp Leu Ala Lys
 65 70 75 80
 Arg Gly Asn Arg Glu Lys Leu Val Ile Ala Ser Lys Val Ser Gly Pro
 85 90 95
 Ser Arg Asn Asn Asp Ala Gly Ile Arg Pro Asn Gln Ile Leu Asp Arg
 100 105 110
 Lys Asn Ile Arg Ala Ala Leu Asp Ala Ser Leu Lys Arg Leu Gln Thr
 115 120 125
 Asp Tyr Leu Asp Leu Tyr His Val His Trp Pro Gln Arg Pro Thr Asn
 130 135 140
 Cys Phe Gly Lys Leu Gly Tyr Thr
 145 150

<210> 5903

<211> 108

<212> PRT

<213> Enterobacter cloacae

<400> 5903

Asn Glu Ser Ala Pro Ala Val Thr Leu Leu Glu Thr Leu Glu Thr Leu
 1 5 10 15
 Thr Glu Cys Gln Arg Ala Gly Lys Ile Arg Tyr Ile Gly Val Ser Asn
 20 25 30
 Glu Thr Ala Phe Gly Val Met Arg Tyr Leu His Leu Ala Asp Lys His
 35 40 45
 Asp Leu Pro Arg Ile Val Thr Ile Gln Asn Pro Tyr Ser Leu Leu Lys
 50 55 60
 Arg Ser Tyr Glu Val Gly Leu Ala Glu Val Thr Gln Tyr Glu Glu Val
 65 70 75 80
 Glu Leu Leu Pro Gln Leu Leu Ser Gly Leu Arg Tyr Pro Asp Gly Gln
 85 90 95
 Ile Pro Glu Arg Arg Glu Thr Gly Trp Arg Ala
 100 105

<210> 5904

<211> 243

<212> PRT

<213> Enterobacter cloacae

<400> 5904

```

Asn Ile Ser Ser Phe Phe Asn Gln Lys Val Val Ser Met His Ser Leu
1      5      10      15
Ala Pro Leu Leu Ser Pro Pro Val Ser Glu Ala Gln Leu Leu Gln Gln
      20      25      30
Ala Gln Arg Leu Ala Gly Tyr Ser Leu Gly Glu Leu Ala Val Met Ala
      35      40      45
Gly Leu Thr Ile Pro Asn Asp Leu Lys Arg Asp Lys Gly Trp Ile Gly
      50      55      60
Val Leu Leu Glu Arg Trp Leu Gly Ala Ser Ala Gly Ser Lys Pro Glu
65      70      75      80
Gln Asp Phe Ala Ala Leu Gly Val Glu Leu Lys Thr Ile Pro Ile Asp
      85      90      95
Ser Gln Gly Arg Pro Leu Glu Thr Thr Phe Val Cys Val Ala Pro Leu
      100     105     110
Thr Gly Asn Ser Gly Val Thr Trp Glu Thr Ser His Val Arg His Lys
      115     120     125
Leu Lys Arg Val Leu Trp Val Pro Val Glu Gly Asp Arg Gln Ile Pro
      130     135     140
Leu Ala Glu Arg Arg Val Gly Ala Pro Leu Leu Trp Ser Pro Asn Asp
      145     150     155     160
Glu Glu Glu Arg Leu Leu Ser Gln Asp Trp Glu Glu Leu Met Asp Met
      165     170     175
Ile Val Leu Gly Gln Val Glu Arg Ile Thr Ala Arg His Gly Glu Met
      180     185     190
Leu Gln Leu Arg Pro Lys Ala Ala Asn Ser Lys Ala Leu Thr Glu Ala
      195     200     205
Val Cys Ala Gln Gly Glu Pro Ile Leu Thr Leu Pro Arg Gly Phe Tyr
      210     215     220
Leu Lys Lys Asn Phe Thr Gly Ala Leu Leu Ala Arg His Phe Leu Leu
225      230      235      240
Lys Thr

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<210> 5905

<211> 125

<212> PRT

<213> Enterobacter cloacae

<400> 5905

```

Arg Ser Thr Lys Arg Trp Ser Cys Ser Pro Asn Ser Cys Leu Gly Phe
1      5      10      15
Gly Thr Leu Thr Gly Lys Tyr Leu Asn Gly Ala Lys Pro Ala Gly Ala
      20      25      30
Arg Asn Thr Leu Phe Ser Arg Phe Thr Arg Tyr Ser Gly Glu Gln Thr
      35      40      45
Gln Lys Ala Val Ala Ala Tyr Val Asp Ile Ala Lys Arg His Gly Leu
      50      55      60
Asp Pro Ala Gln Met Ala Leu Ala Phe Val Arg Arg Gln Pro Phe Val
65      70      75      80
Ala Ser Thr Leu Leu Gly Ala Thr Thr Met Asp Gln Leu Lys Thr Asn
      85      90      95
Ile Glu Ser Phe Asn Leu Asn Leu Ser Glu Glu Val Leu Ala Glu Ile
      100     105     110
Glu Ala Val His Gln Val Tyr Thr Tyr Pro Ala Pro
      115     120     125

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<210> 5906

<211> 118

<212> PRT

<213> Enterobacter cloacae

<400> 5906

```

Thr Val Ala Arg Cys Met Pro Ala Gly Ile Val Ile Gly Val Gly Val
1      5      10      15
Leu Phe Phe Ser Leu Gln His Ala Leu Leu Pro Ala Tyr Ala Leu Leu
20      25      30
Leu Leu Ile Gly Met Leu Gly Gly Phe Phe Val Val Pro Leu Asn Ala
35      40      45
Leu Leu Gln Glu Arg Gly Lys Gln Thr Val Gly Ala Gly Asn Ala Ile
50      55      60
Ala Val Gln Asn Leu Gly Glu Asn Met Ala Met Leu Leu Met Leu Gly
65      70      75      80
Ile Tyr Ser Leu Ala Val Lys Ala Gly Ala Pro Val Val Ala Ile Gly
85      90      95
Val Gly Phe Gly Ala Leu Phe Ala Leu Ala Ile Ser Gly Leu Trp Val
100      105      110
Trp Gln Arg Arg Arg
115

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<210> 5907

<211> 305

<212> PRT

<213> Enterobacter cloacae

<400> 5907

```

Ser Pro Gly Gly Gly Met Met Arg Met Lys Arg Asn Leu Lys Ala Ile
1      5      10      15
Pro Val Leu Val Ala Gly Leu Phe Thr Ser Gln Leu Ser Ile Ala Ala
20      25      30
Gly Ser Val Ser Ala Asp Pro His Ala Gly His Asp Met Ser Ala Met
35      40      45
Gln Met Pro Ala Asp Glu Asn Phe Thr Glu Met Thr Ser Met Glu Pro
50      55      60
Ile Val Thr Glu Ser Arg Thr Pro Ile Pro Pro Val Thr Asp Ala Asp
65      70      75      80
Arg Lys Ala Ala Phe Gly Asn Leu Gln Gly His Ala Ile His Asp Ser
85      90      95
Ala Ile Asn Tyr Leu Val Leu Leu Asp Gln Leu Glu Trp Gln Arg Ser
100      105      110
Asp Asn Thr Asn Asn Phe Ser Trp Ser Val Asn Ser Trp Ile Gly Gly
115      120      125
Asp Thr Asp Arg Ile Trp Leu Lys Ser Glu Gly Glu Arg Ser Asn Gly
130      135      140
Glu Thr Glu Ala Ala Glu Ala Gln Leu Leu Trp Gly His Ala Val Gly
145      150      155      160
Pro Trp Trp Asp Leu Val Ala Gly Val Arg Gln Asp Phe Arg Pro Ala
165      170      175
Ser Ala Arg Thr Trp Ala Ala Val Gly Phe Gln Gly Leu Ala Leu Tyr
180      185      190
Asn Phe Glu Ser Glu Ile Thr Gly Phe Val Ser Asn Gly Gly Lys Ala
195      200      205
Ala Leu Arg Leu Gly Gly Glu Tyr Asp Val Leu Leu Thr Asn Arg Leu
210      215      220
Ile Leu Gln Pro Ser Tyr Glu Val Asn Phe Tyr Ser Gln Asp Asp Glu
225      230      235      240
Ser Arg Gly Arg Gly Arg Gly Leu Thr Asp Thr Glu Leu Gly Leu Arg
245      250      255
Leu Arg Tyr Glu Ile Arg Arg Glu Phe Ala Pro Tyr Ile Gly Val Ser

```

260 265 270
 Trp Asn Gln Leu Tyr Gly Lys Thr Ser Asp Met Ala Lys Arg Glu Gly
 275 280 285
 Glu Lys Asp His Gln Val Val Phe Leu Ala Gly Ala Arg Ile Trp Phe
 290 295 300

305

<210> 5908

<211> 140

<212> PRT

<213> Enterobacter cloacae

<400> 5908

Arg Thr Asp Ile Lys His Ser Thr Lys Gln Val Asn Lys Met Ser Ile
 1 5 10 15
 Leu Asn Lys Ala Ile Leu Thr Gly Gly Leu Val Met Gly Val Ala Phe
 20 25 30
 Ser Ala Met Ala His Pro Glu Leu Lys Ser Ser Val Pro Gln Ala Asp
 35 40 45
 Ser Ala Val Ala Ala Pro Glu Lys Ile Gln Leu Asn Phe Ser Glu Asn
 50 55 60
 Leu Thr Val Lys Phe Ser Gly Ala Lys Leu Thr Met Thr Gly Met Lys
 65 70 75 80
 Gly Met Ser Ser His Ser Pro Met Pro Val Ala Ala Lys Val Ala Pro
 85 90 95
 Gly Ala Asp Pro Lys Ser Met Val Ile Ile Pro Arg Glu Pro Leu Pro
 100 105 110
 Ala Gly Thr Tyr Arg Val Asp Trp Arg Ala Val Ser Ser Asp Thr His
 115 120 125
 Pro Ile Thr Gly Asn Tyr Thr Phe Thr Val Lys
 130 135 140

<210> 5909

<211> 491

<212> PRT

<213> Enterobacter cloacae

<400> 5909

Lys His Phe Met Gly Val Gln Pro Asp Asp Thr Tyr Val Tyr Thr Phe
 1 5 10 15
 Lys Val Lys Gln Asn Gly Thr Tyr Trp Tyr His Ser His Ser Gly Leu
 20 25 30
 Gln Glu Gln Glu Gly Val Tyr Gly Ala Ile Ile Ile Asp Ala Gly Glu
 35 40 45
 Pro Glu Pro Phe Thr Tyr Asp Arg Glu His Val Val Met Leu Ser Asp
 50 55 60
 Trp Thr Asp Glu Asn Pro His Ser Leu Leu Lys Lys Leu Lys Lys Gln
 65 70 75 80
 Ser Asp Tyr Tyr Asn Phe Asn Lys Pro Thr Val Gly Ser Phe Phe Arg
 85 90 95
 Asp Val Asn Thr Arg Gly Leu Ser Ala Thr Ile Ala Asp Arg Lys Met
 100 105 110
 Trp Ala Glu Met Lys Met Asn Pro Thr Asp Leu Ala Asp Val Ser Gly
 115 120 125
 Tyr Thr Tyr Thr Tyr Leu Met Asn Gly Gln Ala Pro Leu Lys Asn Trp
 130 135 140
 Thr Gly Leu Phe Arg Pro Gly Glu Lys Ile Arg Leu Arg Phe Ile Asn
 145 150 155 160
 Gly Ser Ala Met Thr Tyr Phe Asp Ile Arg Ile Pro Gly Leu Lys Met
 165 170 175

Thr Val Val Ala Ala Asp Gly Gln Tyr Val Asn Pro Val Thr Val Asp
 180 185 190
 Glu Phe Arg Ile Ala Val Ala Glu Thr Tyr Asp Val Ile Val Glu Pro
 195 200 205
 Gln Gly Glu Ala Tyr Thr Ile Phe Ala Gln Ser Met Asp Arg Thr Gly
 210 215 220
 Tyr Ala Arg Gly Thr Leu Ala Thr Arg Glu Gly Leu Ser Ala Ala Val
 225 230 235 240
 Pro Pro Leu Asp Pro Arg Pro Leu Leu Thr Met Glu Asp Met Gly Met
 245 250 255
 Gly Gly Met Gly His Asp Met Ala Gly Met Asp His Ser Gln Met Gly
 260 265 270
 Gly Met Asp Asn Ser Gly Glu Met Ser Met Asp Gly Ala Asp Leu
 275 280 285
 Pro Asp Ser Gly Thr Ser Ser Ala Pro Met Asp His Ser Ser Met Ala
 290 295 300
 Gly Met Asp His Ser Arg Met Ala Gly Met Pro Gly Met Gln Ser His
 305 310 315 320
 Pro Ala Ser Glu Thr Asp Asn Pro Leu Val Asp Met Gln Ala Met Ser
 325 330 335
 Val Ser Pro Lys Leu Asn Asp Pro Gly Ile Gly Leu Arg Asn Asn Gly
 340 345 350
 Arg Lys Val Leu Thr Tyr Ala Asp Leu Lys Ser Arg Phe Glu Asp Pro
 355 360 365
 Asp Gly Arg Glu Pro Gly Arg Thr Ile Glu Leu His Leu Thr Gly His
 370 375 380
 Met Glu Lys Phe Ala Trp Ser Phe Asn Gly Ile Lys Phe Ser Asp Ala
 385 390 395 400
 Ala Pro Val Leu Leu Lys Tyr Gly Glu Arg Leu Arg Ile Thr Leu Ile
 405 410 415
 Asn Asp Thr Met Met Thr His Pro Ile His Leu His Gly Met Trp Ser
 420 425 430
 Asp Leu Glu Asp Glu Asn Gly Asn Phe Met Val Arg Lys His Thr Ile
 435 440 445
 Asp Val Pro Pro Gly Thr Lys Arg Ser Tyr Arg Val Thr Ala Asp Ala
 450 455 460
 Leu Gly Arg Trp Ala Tyr His Cys His Leu Leu Tyr His Met Glu Met
 465 470 475 480
 Gly Met Phe Arg Glu Val Arg Val Glu Glu
 485 490

<210> 5910

<211> 91

<212> PRT

<213> Enterobacter cloacae

<400> 5910

Ser Asn Ile Met Asn Asp Leu Ile Met Ile Val Ile Arg Phe Leu Leu
 1 5 10 15
 Tyr Leu Asp Leu Met Val Ile Phe Gly Leu Pro Phe Phe Gln Ile Tyr
 20 25 30
 Gly Ile Ser Gly Val Arg His Glu Thr Tyr Asn Leu Thr Asn Phe Arg
 35 40 45
 Ser Phe Ile Thr Phe Ala Val Val Thr Gly Ile Ile Leu Thr Gly Ile
 50 55 60
 Asn Met Leu Leu Val Ser Asn Ala Met Ser Gly Val Thr Asp Leu Arg
 65 70 75 80
 Glu Leu Ser Ile His Val Ile Glu Met Val Ile
 85 90

<210> 5911

<211> 454

<212> PRT

<213> Enterobacter cloacae

<400> 5911

```

Thr Asn Ser Asn Ser Ser Gln Val Asn Phe Tyr Tyr Ile Gln Gly Ser
1      5      10      15
His Ala Ala Leu Ser Gly Gly Phe Met Leu Leu Ala Gly Ala Ile Phe
      20      25      30
Ile Leu Thr Ile Val Leu Val Ile Trp Gln Pro Lys Gly Leu Gly Ile
      35      40      45
Gly Trp Ser Ala Ile Phe Gly Ala Ile Leu Ala Leu Ile Ser Gly Val
      50      55      60
Val His Ile Thr Asp Ile Leu Val Val Trp Asn Ile Val Trp Asn Ala
65      70      75      80
Thr Ala Thr Phe Ile Ala Val Ile Ile Ile Ser Leu Leu Leu Asp Glu
      85      90      95
Ser Gly Phe Phe Glu Trp Ala Ala Leu His Val Ser Arg Trp Gly Asn
      100     105     110
Gly Arg Gly Arg Leu Leu Phe Thr Tyr Ile Val Leu Leu Gly Ala Ala
      115     120     125
Val Ala Ala Leu Phe Ala Asn Asp Gly Ala Ala Leu Ile Leu Thr Pro
      130     135     140
Ile Val Ile Ala Met Leu Leu Ala Leu Gly Phe Ser Lys Ser Ala Thr
145     150     155     160
Leu Ala Phe Val Met Ala Ala Gly Phe Ile Ala Asp Thr Ala Ser Leu
      165     170     175
Pro Leu Ile Val Ser Asn Leu Val Asn Ile Val Ser Ala Asp Phe Phe
      180     185     190
His Leu Gly Phe Thr Glu Tyr Ala Ser Val Met Val Pro Val Asp Ile
      195     200     205
Ala Ala Ile Ile Ala Thr Leu Val Met Leu His Leu Phe Phe Arg Lys
      210     215     220
Asp Ile Pro Pro Thr Tyr Asp Leu Asn Arg Leu Lys Glu Pro Ala Leu
225     230     235     240
Ala Ile Lys Asp Pro Ala Thr Phe Arg Thr Gly Trp Ile Val Leu Ile
      245     250     255
Leu Leu Leu Val Gly Phe Phe Val Leu Glu Pro Leu Gly Ile Pro Val
      260     265     270
Ser Ala Ile Ala Ala Val Gly Ala Ala Ile Leu Phe Phe Val Ala Lys
      275     280     285
Lys Gly His Ala Ile Asn Thr Gly Lys Val Leu Arg Gly Ala Pro Trp
      290     295     300
Gln Ile Val Ile Phe Ser Leu Gly Met Tyr Leu Val Val Tyr Gly Leu
305     310     315     320
Arg Asn Ala Gly Leu Thr Glu Tyr Leu Ser Gly Val Leu Asn Leu Phe
      325     330     335
Ala Asp Lys Gly Leu Trp Ala Ala Thr Phe Gly Thr Gly Phe Leu Thr
      340     345     350
Ala Phe Leu Ser Ser Ile Met Asn Asn Met Pro Thr Val Leu Ile Gly
      355     360     365
Ala Leu Ser Ile Asp Gly Ser Thr Ala Ser Gly Val Ile Lys Glu Ala
      370     375     380
Met Ile Tyr Ala Asn Val Ile Gly Cys Asp Leu Gly Pro Lys Ile Thr
385     390     395     400
Pro Ile Gly Ser Leu Ala Thr Leu Leu Trp Leu His Val Leu Ser Gln
      405     410     415
Lys Asn Met Thr Ile Thr Trp Gly Tyr Tyr Phe Arg Thr Gly Ile Ile
      420     425     430
Met Thr Leu Pro Val Leu Phe Val Thr Leu Ala Ala Leu Ala Leu Arg
      435     440     445

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Leu Ser Phe Thr Leu
450

<210> 5912

<211> 93

<212> PRT

<213> Enterobacter cloacae

<400> 5912

```

Asp Thr Asp Met Ser Asn Ile Thr Ile Tyr His Asn Pro Ala Cys Gly
1      5      10      15
Thr Ser Arg Asn Thr Leu Glu Met Ile Arg Asn Ser Gly Thr Glu Pro
20     25     30
Thr Val Ile His Tyr Leu Glu Thr Pro Pro Ser Arg Asp Glu Leu Val
35     40     45
Lys Leu Ile Ala Asp Met Gly Ile Thr Val Arg Ala Leu Leu Arg Lys
50     55     60
Asn Val Glu Pro Phe Glu Ala Leu Gly Leu Ala Glu Asp Arg Phe Thr
65     70     75     80
Asp Asp Gln Leu Ile Asp Phe Met Val Ser Val Lys
85     90

```

<210> 5913

<211> 112

<212> PRT

<213> Enterobacter cloacae

<400> 5913

```

Lys Gln Lys Gly His Val Ser Thr Pro Met Met Gln Leu Gln Asp Pro
1      5      10      15
Glu Arg Thr Lys Val Leu Leu Val Thr Leu Pro Glu Thr Thr Pro Val
20     25     30
Leu Glu Ala Ala Asn Leu Gln Ala Asp Leu Glu Arg Ala Gly Ile His
35     40     45
Pro Trp Gly Trp Ile Ile Asn Asn Ser Leu Ser Ile Ala Glu Thr Arg
50     55     60
Ser Pro Leu Leu Arg Gln Arg Ser Gln Gln Glu Leu Pro Gln Ile Glu
65     70     75     80
Ala Val Lys Asn Gln His Ala Thr Arg Val Ala Leu Val Pro Val Leu
85     90     95
Ala Ala Glu Pro Thr Gly Ile Asp Lys Leu Lys Gln Leu Ala Gly
100    105    110

```

<210> 5914

<211> 213

<212> PRT

<213> Enterobacter cloacae

<400> 5914

```

Asp Ser Ile Ala Trp Met Pro Arg Pro Ala Val Val Lys Thr Leu Phe
1      5      10      15
Ser Ala Glu Arg Glu Gly Gly Pro Leu Thr Glu Ala Ala Cys Trp Ala
20     25     30
His Ala Arg Arg Lys Ile His Asp Val Tyr Ile Ser Thr Arg Thr Ala
35     40     45
Thr Ala Glu Glu Ala Leu Lys Arg Ile Ser Glu Leu Tyr Ala Ile Glu
50     55     60
Glu Glu Ile Arg Gly Leu Pro Ala Ser Gln Arg Leu Ala Ala Arg Arg
65     70     75     80
Ser Arg Ser Lys Pro Leu Leu Ile Ser Leu His Asp Trp Leu Val Glu
85     90     95

```

Lys Arg Ala Thr Leu Ser Lys Lys Ser Arg Leu Gly Glu Ala Phe Ala
 100 105 110
 Tyr Ala Leu Asn Gln Trp Asp Ala Leu Cys Tyr Tyr Cys Asp Asp Gly
 115 120 125
 Leu Ala Glu Pro Asp Asn Asn Ala Ala Glu Arg Ala Leu Arg Ala Val
 130 135 140
 Cys Leu Gly Lys Lys Asn Tyr Ile Phe Phe Gly Ser Asp His Gly Gly
 145 150 155 160
 Glu Arg Gly Ala Leu Leu Tyr Gly Leu Ile Gly Thr Cys Arg Leu Asn
 165 170 175
 Gly Ile Asp Pro Glu Gly Tyr Leu Arg His Ile Leu Ser Val Leu Pro
 180 185 190
 Glu Trp Pro Ile Asn Lys Val Ala Glu Leu Leu Pro Trp Asn Val Asp
 195 200 205
 Leu Thr Asn Lys
 210

<210> 5915

<211> 142

<212> PRT

<213> Enterobacter cloacae

<400> 5915

Arg Gln Pro Gln Pro Gly Ser Gln Pro Met Gln Thr Gln Leu Val Thr
 1 5 10 15
 Pro Ser Asn Asp Pro Gly Gln Val Ala Pro Val Glu Pro Glu Pro Val
 20 25 30
 Gln Glu Asp Gln Glu Gln Ala Ala Thr Pro Ser Glu Pro Gln Ala Gln
 35 40 45
 Gln Pro Thr Gly Ile Glu Gln Gln Trp Arg Ser Tyr Arg Val Glu Pro
 50 55 60
 Gly Lys Thr Leu Ala Gln Leu Phe Arg Asp His Asn Leu Pro Ala Thr
 65 70 75 80
 Asp Val Tyr Ala Met Ala Gln Val Glu Gly Ala Gly Lys Pro Leu Ser
 85 90 95
 Asn Leu Gln Asn Gly Gln Met Val Gln Ile Arg Gln Asn Ala Ser Gly
 100 105 110
 Val Val Thr Gly Leu Thr Ile Asp Thr Gly Asn Gly Gln Gln Val Leu
 115 120 125
 Phe Thr Arg Gln Pro Asp Gly Ser Phe Ile Arg Ala Arg
 130 135 140

<210> 5916

<211> 154

<212> PRT

<213> Enterobacter cloacae

<400> 5916

Glu Asp Lys Val Met Gln Val Ile Leu Leu Asp Lys Val Ala Asn Leu
 1 5 10 15
 Gly Ser Leu Gly Asp Gln Val Asn Val Lys Ala Gly Tyr Ala Arg Asn
 20 25 30
 Phe Leu Val Pro Gln Gly Lys Ala Val Pro Ala Thr Lys Lys Asn Val
 35 40 45
 Glu Phe Phe Glu Ala Arg Arg Ala Glu Leu Glu Ala Lys Leu Ala Asp
 50 55 60
 Val Leu Ala Ala Ala Asn Ala Arg Ala Glu Ala Ile Asn Ala Leu Gly
 65 70 75 80
 Thr Val Thr Ile Ala Ser Lys Ala Gly Asp Glu Gly Lys Leu Phe Gly
 85 90 95
 Ser Ile Gly Thr Arg Asp Ile Ala Asp Ala Val Thr Ala Ala Gly Val

100 105 110
 Lys Val Ala Lys Ser Glu Val Arg Leu Pro Asn Gly Val Leu Arg Thr
 115 120 125
 Thr Gly Glu His Glu Val Asp Phe Gln Val His Ser Glu Val Phe Ala
 130 135 140
 Lys Leu Val Val Asn Val Val Ala Glu
 145 150

<210> 5917
 <211> 82
 <212> PRT
 <213> Enterobacter cloacae

<400> 5917
 Ile Leu Glu Thr Ser His Met Ala Arg Tyr Phe Arg Arg Arg Lys Phe
 1 5 10 15
 Cys Arg Phe Thr Ala Glu Gly Val Gln Glu Ile Asp Tyr Lys Asp Ile
 20 25 30
 Ala Thr Leu Lys Asn Tyr Ile Thr Glu Ser Gly Lys Ile Val Pro Ser
 35 40 45
 Arg Ile Thr Gly Thr Arg Ala Lys Tyr Gln Arg Gln Leu Ala Arg Ala
 50 55 60
 Ile Lys Arg Ala Arg Tyr Leu Ser Leu Leu Pro Tyr Thr Asp Arg His
 65 70 75 80
 Gln

<210> 5918
 <211> 319
 <212> PRT
 <213> Enterobacter cloacae

<400> 5918
 Asn Ala Ile Leu Phe Met Arg Phe Val Met Asp Thr Ala Leu Pro Thr
 1 5 10 15
 Pro Val Phe Ala Arg Arg Asn Val Ala Tyr Ala Cys Ala Thr Leu Cys
 20 25 30
 Cys Leu Leu Trp Gly Ser Ser Tyr Pro Ala Ile Lys Ser Gly Tyr Glu
 35 40 45
 Leu Phe Gln Ile Ala Thr Asp Asp Ile Pro Ser Lys Val Val Phe Ala
 50 55 60
 Gly Tyr Arg Phe Leu Phe Ala Gly Ala Leu Leu Leu Leu Phe Ala Leu
 65 70 75 80
 Ala Gln Arg Lys Pro Ile Gly Arg Leu Thr Pro Thr Gln Phe Gly Gln
 85 90 95
 Leu Thr Ile Leu Gly Leu Thr Gln Thr Ser Leu Gln Tyr Thr Phe Phe
 100 105 110
 Tyr Ile Gly Leu Ala Tyr Thr Thr Gly Val Asn Gly Ser Ile Met Asn
 115 120 125
 Ala Thr Gly Thr Phe Phe Ser Val Leu Leu Ala His Phe Ile Tyr His
 130 135 140
 Asn Asp Lys Leu Ser Tyr Asn Lys Thr Leu Gly Cys Val Leu Gly Phe
 145 150 155 160
 Ala Gly Val Met Leu Val Asn Phe His Ser Gly Leu Ser Glu Phe Gln
 165 170 175
 Phe Val Trp Lys Gly Asp Gly Phe Val Val Leu Ala Ala Phe Ile Leu
 180 185 190
 Ser Ala Ala Thr Leu Tyr Gly Lys Arg Ile Ser Gln Thr Val Asp Pro
 195 200 205
 Thr Val Met Thr Gly Trp Gln Leu Gly Ile Gly Gly Ala Ala Leu Val
 210 215 220

Ala Gly Gly Tyr Ala Thr Gly Gly Thr Leu Glu Val His Ser Met Lys
 225 230 235 240
 Ala Val Ala Val Leu Gly Tyr Leu Thr Leu Leu Ser Ser Val Ala Phe
 245 250 255
 Ala Leu Trp Ser Ala Leu Leu Lys Val Asn Arg Val Ser Met Ile Ala
 260 265 270
 Pro Phe Asn Phe Val Ile Pro Val Ala Gly Thr Val Leu Ser Ala Ile
 275 280 285
 Phe Leu Gly Asp Asn Ile Met Asp Ile Lys Tyr Ala Ile Ala Leu Val
 290 295 300
 Leu Val Cys Ser Gly Ile Trp Trp Val Asn Lys Arg Arg Ala
 305 310 315

<210> 5919

<211> 95

<212> PRT

<213> Enterobacter cloacae

<400> 5919

Thr Glu Arg Leu Gln Trp Leu Ala Ala Leu Leu Leu Asp Ala Leu Lys
 1 5 10 15
 Ile Gln Gln Gly Asp Thr Leu Leu Thr His Pro Glu Val Trp Ala Leu
 20 25 30
 Val Thr Thr Leu Ala Asn Arg Leu Ser Gly Gln Ser Leu His Ala Ile
 35 40 45
 Leu His Asp Ile Cys Gln Ser Arg Glu Gln Leu Leu Thr Val Thr Gly
 50 55 60
 Gly Gly Leu Asn Arg Glu Leu Leu Leu Thr Asp Gln Leu Leu Arg Ile
 65 70 75 80
 Glu His Tyr Leu Gln Pro Gly Val Ile Pro Pro Val Ser His Leu
 85 90 95

<210> 5920

<211> 291

<212> PRT

<213> Enterobacter cloacae

<400> 5920

Pro Thr Ser Tyr Cys Val Ser Asn Thr Thr Cys Asn Arg Val Ser Tyr
 1 5 10 15
 Arg Arg Phe Pro Thr Ser Glu Arg Asp Ile Met Phe Leu Val Asp Ser
 20 25 30
 His Cys His Leu Asp Gly Leu Asp Tyr Gln Ser Leu His Lys Asn Val
 35 40 45
 Asp Asp Val Leu Ala Lys Ala Ala Arg Asp Val Lys Phe Cys Leu
 50 55 60
 Ala Val Ala Thr Thr Leu Pro Gly Tyr Arg Ser Met Arg Glu Leu Val
 65 70 75 80
 Gly Glu Arg Asp Asn Val Val Phe Ser Cys Gly Val His Pro Leu Asn
 85 90 95
 Gln Asp Glu Ala Tyr Asp Val Glu Asp Leu Arg Arg Leu Ala Ala Glu
 100 105 110
 Glu Gly Val Val Ala Met Gly Glu Thr Gly Leu Asp Tyr Leu Tyr Thr
 115 120 125
 Pro Glu Thr Lys Pro Arg Gln Glu Ser Phe Arg Asn His Ile Arg
 130 135 140
 Ile Gly Arg Glu Leu Asn Lys Pro Val Ile Val His Thr Arg Asp Ala
 145 150 155 160
 Arg Ala Asp Thr Leu Ala Ile Leu Arg Glu Glu Lys Val Thr Asp Cys
 165 170 175
 Gly Gly Val Leu His Cys Phe Thr Glu Asp Arg Glu Thr Ala Gly Lys

180 185 190
 Leu Leu Asp Leu Gly Phe Tyr Ile Ser Phe Ser Gly Ile Val Thr Phe
 195 200 205
 Arg Asn Ala Glu Gln Leu Arg Asp Ala Ala Arg Tyr Val Pro Leu Asp
 210 215 220
 Arg Ile Leu Val Glu Thr Asp Ser Pro Tyr Leu Ala Pro Val Pro His
 225 230 235 240
 Arg Gly Lys Glu Asn Gln Pro Ala Met Thr Arg Asp Val Ala Glu Tyr
 245 250 255
 Met Ala Val Leu Lys Gly Val Ser Ile Glu Glu Leu Ala Arg Val Thr
 260 265 270
 Thr Glu Asn Phe Ala Ser Leu Phe His Ile Asp Pro Ala Arg Leu Gln
 275 280 285
 Ser Val
 290

<210> 5921

<211> 489

<212> PRT

<213> Enterobacter cloacae

<400> 5921

Lys Lys His Lys Tyr Ser Gly Ala Leu Ser Ile Met Phe Lys Asn Ala
 1 5 10 15
 Phe Ala Asn Leu Gln Lys Val Gly Lys Ser Leu Met Leu Pro Val Ser
 20 25 30
 Val Leu Pro Ile Ala Gly Ile Leu Leu Gly Val Gly Ser Ala Asn Phe
 35 40 45
 Ser Trp Leu Pro Ala Val Val Ser His Val Met Ala Glu Ala Gly Gly
 50 55 60
 Ser Val Phe Ala Asn Met Pro Leu Ile Phe Ala Ile Gly Val Ala Leu
 65 70 75 80
 Gly Phe Thr Asn Asn Asp Gly Val Ser Ala Leu Ala Ser Val Val Ala
 85 90 95
 Tyr Gly Ile Met Val Lys Thr Met Ala Val Val Ala Pro Leu Val Leu
 100 105 110
 His Leu Pro Ala Glu Glu Ile Ala Ala Lys His Leu Ala Asp Thr Gly
 115 120 125
 Val Leu Gly Gly Ile Ile Ser Gly Ala Ile Ala Ala Tyr Met Phe Asn
 130 135 140
 Arg Phe Tyr Arg Ile Lys Leu Pro Glu Tyr Leu Gly Phe Phe Ala Gly
 145 150 155 160
 Lys Arg Phe Val Pro Ile Ile Ser Gly Leu Ala Ala Ile Phe Thr Gly
 165 170 175
 Val Val Leu Ser Phe Ile Trp Pro Pro Ile Gly Thr Ala Ile Gln Thr
 180 185 190
 Phe Ser Gln Trp Ala Ala Tyr His Asn Pro Val Val Ala Phe Gly Ile
 195 200 205
 Tyr Gly Phe Ile Glu Arg Cys Leu Val Pro Phe Gly Leu His His Ile
 210 215 220
 Trp Asn Val Pro Phe Gln Met Gln Ile Gly Glu Tyr Thr Asn Ala Ala
 225 230 235 240
 Gly Gln Val Phe His Gly Asp Ile Pro Arg Tyr Met Ala Gly Asp Pro
 245 250 255
 Thr Ala Gly Lys Leu Ser Gly Gly Phe Leu Phe Lys Met Tyr Gly Leu
 260 265 270
 Pro Ala Ala Ile Ala Ile Trp His Ser Ala Lys Pro Glu Asn Arg
 275 280 285
 Ala Lys Val Gly Gly Ile Met Ile Ser Ala Ala Leu Thr Ser Phe Leu
 290 295 300
 Thr Gly Ile Thr Glu Pro Ile Glu Phe Ser Phe Met Phe Val Ala Pro

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<210> 5922
<211> 177
<212> PRT
<213> Enterobacter cloacae
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<210> 5923
<211> 246
<212> PRT
<213> Enterobacter cloacae
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<400> 5923

Gly Asn Met Asp Ala Phe Asn Leu Leu Trp Ser Ile Thr Gly Val Ala
 1 5 10 15
 Phe Ile Ile Leu Ile Phe Val Val Leu Cys Leu Leu Gly Phe Met
 20 25 30
 Thr Ser Ala Ile Ala Glu Arg Arg Thr Ala Lys Ala Ile Glu Ser Gly
 35 40 45
 Leu Pro Glu Glu Ala Gln Gly Leu Leu Ser Asp Leu Thr Phe Gln Leu
 50 55 60
 Ser Ala His Ser Thr Thr Gln Val Asp His Ile Leu Val Ala Pro His
 65 70 75 80
 Gly Ile Tyr Val Ile Glu Gln Lys Asn Tyr Val Gly Lys Leu Tyr Gly
 85 90 95
 Thr Leu Glu Glu Ser His Trp Arg Lys Trp Thr Gln Ser Arg Thr Leu
 100 105 110
 Lys Leu Gln Asn Pro Phe Lys Gln Asn Gln Gly His Ile Arg Ala Ile
 115 120 125
 Gln Ser Ala Leu Lys Ala Arg Glu Leu Glu Cys Ile Asn Val Val Ile
 130 135 140
 Ile Asn Gly Arg Cys Lys Phe Asp Gly Ile Lys Pro Glu Trp Leu Cys
 145 150 155 160
 Met Gly Met Asp Asp Phe Ile His Lys Val Lys Gln Arg Arg Gly Leu
 165 170 175
 Arg Leu Phe Thr Pro Glu Ser Val Gln His Ile Cys Ser Val Leu Lys
 180 185 190
 Ser Thr Arg Lys Ser Pro Gly Leu Tyr Thr Asp Leu Thr His Ile His
 195 200 205
 Asn Ile Thr Thr Lys Tyr Lys Ala Pro Met Lys Phe Glu Gln Arg Val
 210 215 220
 Thr Tyr Ile Leu Leu Asn Phe Ile His Tyr Leu Trp Ala Ser Leu Phe
 225 230 235 240
 Thr Lys Gln Lys Pro
 245

<210> 5924

<211> 275

<212> PRT

<213> Enterobacter cloacae

<400> 5924

Arg Gly Met Pro Ala Arg Val Ser Arg Pro Gly Ile Thr Gly Arg Ser
 1 5 10 15
 His Leu Met Ser Gln Asn Thr Leu Lys Val His Asp Leu Asn Glu Asp
 20 25 30
 Ala Glu Phe Asp Glu Asn Gly Ala Glu Ala Phe Asp Glu Lys Ala Leu
 35 40 45
 Val Glu Glu Glu Pro Ser Asp Asn Asp Leu Ala Glu Glu Leu Leu
 50 55 60
 Ser Gln Gly Ala Thr Gln Arg Val Leu Asp Ala Thr Gln Leu Tyr Leu
 65 70 75 80
 Gly Glu Ile Gly Tyr Ser Pro Leu Leu Thr Ala Glu Glu Glu Val Tyr
 85 90 95
 Phe Ala Arg Arg Ala Leu Arg Gly Asp Val Ala Ser Arg Arg Arg Met
 100 105 110
 Ile Glu Ser Asn Leu Arg Leu Val Val Lys Ile Ala Arg Arg Tyr Gly
 115 120 125
 Asn Arg Gly Leu Ala Leu Leu Asp Leu Ile Glu Glu Gly Asn Leu Gly
 130 135 140
 Leu Ile Arg Ala Val Glu Lys Phe Asp Pro Glu Arg Gly Phe Arg Phe
 145 150 155 160
 Ser Thr Tyr Ala Thr Trp Trp Ile Arg Gln Thr Ile Glu Arg Ala Ile
 165 170 175

Met Asn Gln Thr Arg Thr Ile Arg Leu Pro Ile His Ile Val Lys Glu
 180 185 190
 Leu Asn Val Tyr Leu Arg Thr Ala Arg Glu Leu Ser His Lys Leu Asp
 195 200 205
 His Glu Pro Ser Ala Glu Glu Ile Ala Glu Gln Leu Asp Lys Pro Val
 210 215 220
 Asp Asp Val Ser Arg Met Leu Arg Leu Asn Glu Arg Ile Thr Ser Val
 225 230 235 240
 Asp Thr Pro Leu Gly Gly Asp Ser Glu Lys Ala Leu Leu Asp Ile Leu
 245 250 255
 Ala Asp Glu Lys Asp Asn Gly Pro Glu Asp Thr Thr Gln Asp Asp Asp
 260 265 270
 Met Lys Gln
 275

<210> 5925

<211> 365

<212> PRT

<213> Enterobacter cloacae

<400> 5925

Arg Arg Val Ala Ala Leu Ser Leu Val Ser Leu Trp Leu Ala Gly Cys
 1 5 10 15
 Thr Ser Ser Asn Asn Ala Pro Ala Pro Val Ser Ser Val Asn Gly Thr
 20 25 30
 Ser Gly Ser Gly Asn Thr Ser Ser Gly Met Leu Ile Thr Pro Pro Pro
 35 40 45
 Lys Met Gly Thr Ser Thr Ala Gln Gln Thr Pro Gln Ile Gln Pro Val
 50 55 60
 Gln Arg Pro Val Thr Gln Pro Thr Gln Ile Gln Pro Val Glu Gln Pro
 65 70 75 80
 Val Gln Thr Glu Asn Gly Arg Ile Val Tyr Asn Arg Lys Tyr Gly Asn
 85 90 95
 Ile Pro Lys Gly Ser Tyr Thr Gly Gly Ser Thr Tyr Thr Val Lys Arg
 100 105 110
 Gly Asp Thr Leu Phe Tyr Ile Ala Trp Ile Thr Gly Asn Asp Phe Arg
 115 120 125
 Asp Leu Ala Gln Arg Asn Asn Val Gln Ala Pro Tyr Ala Leu Glu Val
 130 135 140
 Gly Gln Thr Leu Gln Val Gly Asn Ala Thr Gly Thr Pro Leu Thr Pro
 145 150 155 160
 Gly Asn Thr Val Ser Ala Ala Asp Val Thr Ala Gln Asn Asn Ser Val
 165 170 175
 Thr Pro Ala Gln Lys Thr Thr Thr Val Val Ala Ser Gln Pro Val Ile
 180 185 190
 Thr Tyr Ser Glu Asp Ser Gly Asp Gln Ser Ala Asn Lys Met Leu Pro
 195 200 205
 Asn Asn Lys Gly Thr Ala Thr Val Val Thr Ala Pro Thr Thr Ala Pro
 210 215 220
 Val Val Ser Ser Thr Val Pro Thr Ala Ser Ser Gln Asn Ala Ser Ser
 225 230 235 240
 Ser Ile Thr Thr Trp Arg Trp Pro Thr Asp Gly Lys Ile Ile Glu Asn
 245 250 255
 Phe Ala Thr Ser Glu Gly Gly Asn Lys Gly Ile Asp Ile Ala Gly Ser
 260 265 270
 Lys Gly Gln Ala Ile Ile Ala Thr Ala Asp Gly Arg Val Val Tyr Ala
 275 280 285
 Gly Asn Ala Leu Arg Gly Tyr Gly Asn Leu Ile Ile Ile Lys His Asn
 290 295 300
 Asp Asp Tyr Leu Ser Ala Tyr Ala His Asn Asp Thr Met Leu Val Arg
 305 310 315 320

Glu Gln Gln Glu Val Lys Ala Gly Gln Lys Ile Ala Thr Met Gly Ser
 325 330 335
 Thr Gly Thr Ser Thr Arg Leu His Phe Glu Ile Arg Tyr Lys Gly
 340 345 350
 Lys Ser Val Asn Pro Leu Gln Tyr Leu Pro Gln Arg
 355 360 365

<210> 5926

<211> 130

<212> PRT

<213> Enterobacter cloacae

<400> 5926

Ser Leu Leu Asn Phe Leu Ile Pro Lys Asn Lys Gly Ala Ile Ser Pro
 1 5 10 15
 Gln Ile Lys Phe His Gln Val Thr Arg Thr Lys Lys Phe Gln Arg Asp
 20 25 30
 Gln Arg Ile Gln Thr Ser Ala Arg Gly Asn Tyr Gly Arg Glu Gln Thr
 35 40 45
 Glu Glu Glu Pro Pro Lys Gly Thr Ala Pro Glu Lys Pro Gln Ala Ala
 50 55 60
 Gln Arg Arg Glu Lys Arg Lys Thr Glu Lys Gly His Gln Asn Arg Gly
 65 70 75 80
 Glu Lys Leu Ile Ser Glu Gln Asn Arg Ser Pro Asn Glu Lys Arg Asn
 85 90 95
 Ile Ser Ala Glu Lys Lys Arg Glu Ser Ala Gln Leu Val Leu Asp Gln
 100 105 110
 Asn His Thr Val Ala Ala Val Leu His Arg Arg Gly Arg Lys Glu Thr
 115 120 125
 Arg Phe
 130

<210> 5927

<211> 605

<212> PRT

<213> Enterobacter cloacae

<400> 5927

Val Ser Pro Ser Glu Arg Thr Leu Glu Gly Lys Glu Trp Cys Ala Gly
 1 5 10 15
 Asn Thr Asn Gly Asp Ser Gly Lys Ser Leu Lys Val Asn Ile Gly Gly
 20 25 30
 Lys Lys Ser Trp Ala Asp Phe Ala Ser Gly Asp Ser Gly Asp Leu Leu
 35 40 45
 Asp Leu Trp Val Leu Val Arg Asn Cys Gln Leu His Asp Ala Met Arg
 50 55 60
 Glu Ala Lys Glu Phe Leu Gly Leu Lys Asp Asp His His Phe Glu
 65 70 75 80
 Ala Lys Lys Lys Leu Phe Ser Arg Pro Thr Lys Lys Gly Val Lys Ser
 85 90 95
 Ala Ser Lys Cys Tyr Asp Tyr Leu Ala Ser Arg Gly Ile Thr Arg Glu
 100 105 110
 Thr Ala Asp Arg Phe Lys Val Thr Asp Ala Val Val Trp Tyr His Asp
 115 120 125
 Glu Ser Arg Glu Val Pro Ala Val Ala Phe Pro Tyr Ile Arg Asn Gly
 130 135 140
 Glu Leu Leu Gln Val Lys Arg Ile Gly Thr Glu Arg Pro Asn Gly Lys
 145 150 155 160
 Lys Leu Ile Met Ala Glu Ala Asp Cys Glu Pro Cys Leu Phe Gly Trp
 165 170 175
 Gln Ala Leu Asp Lys Asn Thr Arg Leu Val Val Leu Cys Glu Gly Glu

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      180      185      190
Ile Asp Cys Met Thr Phe Thr Gln Leu Gly Tyr Asp Ala Leu Ser Val
  195      200      205
Pro Phe Gly Gly Gly Lys Gly Ala Lys Gln Gln Trp Ile Glu Tyr Glu
  210      215      220
Tyr His Asn Leu Asp Arg Phe Gln Glu Ile Trp Leu Cys Leu Asp Asn
  225      230      235      240
Asp Asn Val Gly Arg Glu Ala Ala Lys Glu Ile Ala Arg Arg Leu Gly
      245      250      255
Glu His Arg Cys Arg Met Val Glu Leu Pro His Lys Asp Ile Asn Asp
      260      265      270
Cys Leu Met Asn Gly Met Asp Ser Asp Ser Ile Leu Glu Tyr Met Glu
      275      280      285
Arg Ala Lys Phe Phe Asp Pro Asp Glu Leu Cys Ser Ala Gly Asp Leu
      290      295      300
Leu Gln Glu Thr Ile Glu Ala Phe Glu His Arg Asp Thr Gly Leu Phe
  305      310      315      320
Thr Ser Pro Trp Ala Ser Leu Asn Asn Asn Phe Lys Phe Arg Ala Gly
      325      330      335
Glu Leu Thr Leu Val Asn Gly Val Asn Gly His Gly Lys Thr Glu Leu
      340      345      350
Val Gly His Ile Ala Ile Asp Ala Met Ser Gln Gly Val Arg Thr Cys
      355      360      365
Ile Ala Ser Leu Glu Leu Lys Pro Gly Lys Met Leu Ala Arg Leu Thr
      370      375      380
Arg Gln Thr Ile Cys Thr Ser Ser Pro Lys Arg Glu Glu Ile Ile Met
  385      390      395      400
Thr Asn Glu Trp Phe Ser Asp Arg Leu Trp Val Phe Lys Leu Thr Gly
      405      410      415
Thr Ala Lys Ala Asp Arg Leu Leu Glu Ile Phe Ala Tyr Ala Arg Arg
      420      425      430
Arg Tyr Gly Ile Glu Leu Phe Val Ile Asp Asn Leu Ala Lys Cys Gly
      435      440      445
Leu Asp Glu Glu Asp Tyr Thr Gly Gln Lys Asp Phe Ile Asp Thr Leu
      450      455      460
Cys Asp Phe Lys Asn Glu His Asn Cys His Val Leu Leu Val Thr His
  465      470      475      480
Ala Arg Lys Thr Asn Asp Ser Ala Pro Thr Gly Lys Met Asp Val Lys
      485      490      495
Gly Thr Gly Ala Leu Thr Asp Met Pro Asp Asn Val Met Ala Val Trp
      500      505      510
Arg Asn Ile Pro Arg Glu Leu Ala Gln Arg Lys Ala Asp Arg Met Gly
      515      520      525
Tyr Glu Ser Leu Asp Lys Asp Glu Gln Ala Ala Ile Asn Leu Pro Ala
  530      535      540
Ser Met Ile Arg Leu Leu Lys Gln Arg Glu Gly Glu Trp Ile Gly
  545      550      555      560
Asp Ile Gly Ala Asn Phe Asp Ser Arg Ser His Gln Phe Leu Glu Gly
      565      570      575
Glu Lys Lys Pro Phe Asn Tyr Leu Val Gly Lys Pro Gln Ser Glu Leu
      580      585      590
Asp Leu Glu Trp Glu Ala Ser Asn Val Thr Arg Val
      595      600      605

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<210> 5928

<211> 343

<212> PRT

<213> Enterobacter cloacae

<400> 5928

Ala Ser Ser Arg Leu His Asn His Ala Ser Ser Gly Val Cys Val Ser

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1           5           10           15
Ser Lys Ile Leu Gly Asn Val Trp Asp Ala Cys Ala Ala His Asp Ile
      20           25           30
Lys Gly Ala Lys Leu Val Ile Met Ala Arg Leu Ala Asp Tyr Ser Asn
      35           40           45
Asp Asp Gly Val Cys Tyr Pro Ser Val Glu Thr Ile Cys Arg Gln Leu
      50           55           60
Gly Leu Gly Glu Ser Thr Val Arg Thr Ala Ile Ala Glu Leu Glu Ser
      65           70           75           80
Ser Gly Trp Leu Arg Arg Glu Ala Arg Arg Lys Gly Asn Arg Asn Thr
      85           90           95
Ser Asn Leu Tyr His Leu Asn Ala Glu Arg Leu Glu Ala Leu Ala Arg
      100          105          110
Ile Glu Glu Asp Lys Val Ala Ala Leu Lys Gln Gln Arg Arg Thr Asn
      115          120          125
Gly Phe His Pro Ser Asp Ser Asp Pro Ser Lys Thr Glu Pro Ser Asp
      130          135          140
Ser Gly Phe Ser Asn Gly Phe His Pro Ser Asp Ser Asp Lys Asn Gly
      145          150          155          160
Val Phe Thr Arg Gln Asn Leu Thr Pro Asp Pro Gln Val Asn Ser Lys
      165          170          175
His Asp Pro Gln Val Asn Ser Lys His Asp Pro Gln Val Asn Ser Lys
      180          185          190
Gln Glu Ser Gln Asp Ile Gly Val Cys Gly Lys Ala Ser Ser Glu Asn
      195          200          205
Arg Ser Ser Lys Glu Asn Tyr Ser Asn Glu Phe Glu Lys Ala Trp Gln
      210          215          220
Ala Tyr Pro Lys Arg Ala Gly Gly Asn Ser Lys Ala Ala Ala Trp Lys
      225          230          235          240
Ala Trp Lys Ala Arg Ile Lys Asp Gly Val Asn Thr Glu Ala Met Leu
      245          250          255
Ala Gly Val Asn Arg Tyr Ala Gly Tyr Val Arg Ala Thr Gly Ser Ala
      260          265          270
Gly Thr Gln Tyr Val Lys Gln Ala Ala Thr Phe Phe Gly Pro Asp Lys
      275          280          285
His Phe Asp Glu Pro Trp Leu Val Glu Thr Gln Glu Asn Lys Val Pro
      290          295          300
Thr Arg Gln Asp Gln Ser Arg Tyr Glu Trp Tyr Ala Lys Ser Asp Asp
      305          310          315          320
Gly Ser Ala Glu Val Phe Ile Asn Gln Ser Ala Ile Asp Arg Met Asn
      325          330          335
Arg Gly Gly Tyr Arg Pro
      340

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<210> 5929

<211> 182

<212> PRT

<213> Enterobacter cloacae

<400> 5929

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Ser Pro Cys Pro Arg Ala Ala Ala Asp Arg Leu Asn Thr Ser Asn Asn
1           5           10           15
Thr Lys Val Arg Ile Asp Pro Ile Ile Val Ala Gln Asp Gly Ser Leu
      20           25           30
Cys Gly Pro Gly Thr Ala Cys Thr Thr Val Ala Lys Gln Thr Tyr Ala
      35           40           45
Leu Pro Ala Arg Pro Asp Leu Ser Gly Gly Met Gly Gly Val Ser Thr
      50           55           60
Pro Ala Val Pro Ala Gln Pro Gln Gly Glu Val Arg Ala Ile Ser Asn
      65           70           75           80
Asp Thr Leu Gln Ser Glu Asp Ala Thr Gly Ala Pro Val Lys Ser Ser

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<210> 5930
<211> 106
<212> PRT
<213> Enterobacter cloacae
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```
<210> 5931
<211> 90
<212> PRT
<213> Enterobacter cloacae
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```
<210> 5932
<211> 435
<212> PRT
<213> Enterobacter cloacae
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1

1		5		10		15									
Val	Arg	His	Phe	Asn	Ser	Ile	Thr	Asp	Val	Val	Val	Leu	Thr	Met	
		20					25					30			
Lys	Thr	Thr	Phe	Ser	Ala	Arg	Phe	Val	Gln	Arg	Met	Ala	Leu	Thr	Thr
		35					40					45			
Ala	Leu	Cys	Ala	Ala	Ala	Phe	Ser	Ala	Ala	His	Ala	Asp	Asp	Leu	Asn
		50				55					60				
Ile	Lys	Thr	Met	Ile	Pro	Gly	Val	Pro	Gln	Ile	Asp	Ala	Glu	Ser	Tyr
65					70					75					80
Ile	Leu	Ile	Asp	Tyr	Asn	Ser	Gly	Lys	Val	Leu	Ala	Glu	Gln	Asn	Ala
			85						90					95	
Asp	Ala	Arg	Arg	Asp	Pro	Ala	Ser	Leu	Thr	Lys	Met	Met	Thr	Ser	Tyr
			100					105					110		
Val	Ile	Gly	Gln	Ala	Met	Lys	Ala	Gly	Lys	Phe	Lys	Glu	Thr	Asp	Leu
		115					120					125			
Val	Thr	Ile	Gly	Asn	Asp	Ala	Trp	Ala	Thr	Gly	Asn	Pro	Val	Phe	Lys
	130					135					140				
Gly	Ser	Ser	Leu	Met	Phe	Leu	Lys	Pro	Gly	Met	Gln	Val	Pro	Val	Ser
145					150					155					160
Gln	Leu	Ile	Arg	Gly	Ile	Asn	Leu	Gln	Ser	Gly	Asn	Asp	Ala	Cys	Val
				165					170					175	
Ala	Met	Ala	Asp	Phe	Ala	Ala	Gly	Ser	Gln	Asp	Ala	Phe	Val	Gly	Leu
			180					185					190		
Met	Asn	Ser	Tyr	Val	Ser	Ala	Leu	Gly	Leu	Lys	Asn	Ser	His	Phe	Gln
		195					200					205			
Thr	Val	His	Gly	Leu	Asp	Ala	Glu	Gly	Gln	Tyr	Ser	Ser	Ala	Arg	Asp
	210					215						220			
Met	Ala	Leu	Ile	Gly	Gln	Ala	Leu	Ile	Arg	Asp	Val	Pro	Asn	Glu	Tyr
225					230					235					240
Ser	Ile	Tyr	Lys	Glu	Lys	Glu	Phe	Thr	Phe	Asn	Gly	Ile	Arg	Gln	Thr
			245						250					255	
Asn	Arg	Asn	Gly	Leu	Leu	Trp	Asp	Asn	Ser	Leu	Asn	Val	Asp	Gly	Ile
			260				265						270		
Lys	Thr	Gly	His	Thr	Asp	Lys	Ala	Gly	Tyr	Asn	Leu	Val	Ala	Ser	Ala
		275					280					285			
Thr	Glu	Gly	Gln	Met	Arg	Leu	Ile	Ser	Ala	Val	Met	Gly	Gly	Arg	Thr
	290					295					300				
Phe	Lys	Gly	Arg	Glu	Thr	Glu	Ser	Lys	Lys	Leu	Leu	Thr	Trp	Gly	Phe
305					310				315						320
Arg	Phe	Phe	Glu	Thr	Val	Asn	Pro	Leu	Lys	Ala	Gly	Lys	Glu	Phe	Ala
			325						330					335	
Ser	Glu	Pro	Val	Trp	Phe	Gly	Asp	Asn	Asp	Arg	Ala	Ser	Leu	Gly	Val
			340				345						350		
Asp	Lys	Asp	Leu	Tyr	Leu	Thr	Ile	Pro	Arg	Gly	Arg	Met	Lys	Asp	Leu
		355				360						365			
Lys	Ala	Ser	Tyr	Val	Leu	Asn	Thr	Thr	Glu	Leu	His	Ala	Pro	Leu	Gln
	370					375					380				
Lys	Asn	Gln	Val	Val	Gly	Thr	Ile	Asn	Phe	Gln	Leu	Asp	Gly	Lys	Thr
385					390					395					400
Ile	Asp	Gln	Arg	Pro	Leu	Val	Val	Leu	Glu	Glu	Ile	Pro	Glu	Gly	Asn
			405						410					415	
Phe	Phe	Gly	Lys	Ile	Ile	Asp	Tyr	Ile	Lys	Leu	Met	Phe	His	His	Trp
			420					425					430		
Phe	Gly														
			435												

<210> 5933

<211> 229

<212> PRT

<213> Enterobacter cloacae

<400> 5933

Tyr Thr Pro Arg Tyr Leu Phe Ser Leu Val Phe Gly Asp Val Leu Leu
 1 5 10 15
 Tyr Gln Asp Lys Ile Leu Val Arg His Leu Gly Ile Gln Pro Tyr Glu
 20 25 30
 Pro Val Ser Gln Ala Met His Asp Phe Thr Asp Met Arg Asp Asp Thr
 35 40 45
 Thr Pro Asp Glu Ile Trp Leu Val Glu His Met Pro Val Phe Thr Gln
 50 55 60
 Gly Gln Ala Gly Lys Ala Glu His Leu Leu Met Thr Gly Asp Ile Pro
 65 70 75 80
 Val Ile Gln Ser Asp Arg Gly Gly Gln Val Thr Tyr His Gly Pro Gly
 85 90 95
 Gln Gln Val Met Tyr Val Leu Leu Asn Leu Lys Arg Arg Lys Leu Gly
 100 105 110
 Val Arg Glu Leu Val Thr Leu Leu Glu Gln Thr Val Val Asn Thr Leu
 115 120 125
 Ala Glu Tyr Gly Ile Asp Ala His Pro Arg Ala Asp Ala Pro Gly Val
 130 135 140
 Tyr Val Gly Glu Lys Lys Ile Cys Ser Leu Gly Leu Arg Ile Arg Lys
 145 150 155 160
 Gly Cys Ser Phe His Gly Leu Ala Leu Asn Ile Asn Met Asp Leu Thr
 165 170 175
 Pro Phe Gln Arg Ile Asn Pro Cys Gly Tyr Ala Gly Met Glu Met Thr
 180 185 190
 Gln Met Arg Gln Trp Val Ala Thr Ala Thr Pro Glu Asn Ile Arg Pro
 195 200 205
 Val Leu Leu Lys Lys Phe Leu Ala Leu Leu Asn Asn Pro Asp His Glu
 210 215 220
 Tyr Ile Ala Ala
 225

<210> 5934

<211> 387

<212> PRT

<213> *Enterobacter cloacae*

<400> 5934

Pro Gly Val Asp Met Tyr Ala Leu Thr His Gly Arg Ile Tyr Thr Gly
 1 5 10 15
 His Glu Ile Leu Asp Asp His Ala Ile Val Ile Ala Asn Gly Leu Ile
 20 25 30
 Glu Arg Val Cys Pro Leu Ala Glu Leu Pro Pro Glu Ile Glu Gln Arg
 35 40 45
 Ser Leu Asn Gly Ala Val Ile Ser Pro Gly Phe Ile Asp Val Gln Leu
 50 55 60
 Asn Gly Cys Gly Gly Val Gln Phe Asn Asp Thr Ala Glu Ala Val Thr
 65 70 75 80
 Val Glu Thr Leu Glu Ile Met Gln Lys Ala Asn Glu Lys Ser Gly Cys
 85 90 95
 Thr Ser Tyr Leu Pro Thr Leu Ile Thr Ser Ser Asp Asp Leu Met Lys
 100 105 110
 Gln Gly Ile Arg Val Met Arg Glu Tyr Leu Ala Lys His Pro Asn Gln
 115 120 125
 Ala Leu Gly Leu His Leu Glu Gly Pro Trp Leu Asn Met Val Lys Lys
 130 135 140
 Gly Thr His Asn Pro Asn Tyr Val Arg Lys Pro Asp Ala Glu Leu Val
 145 150 155 160
 Asp Tyr Met Cys Ala Asn Ala Asp Val Ile Thr Lys Val Thr Leu Ala
 165 170 175
 Pro Glu Met Thr Gly Thr Asp Val Ile Ser Lys Leu Ala Ala Ala Gly

180 185 190
 Ile Val Val Ser Ala Gly His Ser Asn Ala Thr Leu Lys Glu Ala Lys
 195 200 205
 Ala Gly Phe Arg Ala Gly Ile Thr Phe Ala Thr His Leu Tyr Asn Ala
 210 215 220
 Met Pro Tyr Ile Thr Gly Arg Glu Pro Gly Leu Val Gly Ala Ile Leu
 225 230 235 240
 Asp Glu Pro Asp Val Tyr Cys Gly Ile Ile Ala Asp Gly Leu His Val
 245 250 255
 Asp Tyr Thr Asn Ile Arg Asn Ala Gln Arg Leu Lys Gly Asp Lys Leu
 260 265 270
 Cys Leu Val Thr Asp Ala Thr Ala Pro Ala Gly Ala Asn Ile Asp Gln
 275 280 285
 Phe Ile Cys Ala Gly Lys Thr Ile Tyr Tyr Arg Asn Gly Leu Cys Val
 290 295 300
 Asp Glu Asn Gly Thr Leu Ser Gly Ser Ser Leu Thr Met Ile Glu Gly
 305 310 315 320
 Val Arg Asn Leu Val Glu His Cys Gly Ile Ala Leu Glu Glu Val Leu
 325 330 335
 Arg Met Ala Thr Leu Tyr Pro Ala Arg Ala Ile Gly Val Asp Lys Gln
 340 345 350
 Leu Gly Gly Ile Ala Pro Gly Met Val Ala Asn Leu Thr Ala Phe Thr
 355 360 365
 His Asp Tyr Lys Ile Ile Lys Thr Ile Val Asn Gly Asn Glu Val Val
 370 375 380
 Thr Glu
 385

<210> 5935

<211> 268

<212> PRT

<213> Enterobacter cloacae

<400> 5935

Ile Met Arg Leu Ile Pro Leu Ala Thr Ala Glu Gln Val Gly Lys Trp
 1 5 10 15
 Ala Ala Arg His Ile Val Asn Arg Ile Asn Ala Phe Lys Pro Thr Ala
 20 25 30
 Asp Arg Pro Phe Val Leu Gly Leu Pro Thr Gly Gly Thr Pro Leu Thr
 35 40 45
 Ala Tyr Lys Ala Leu Val Glu Met His Lys Ala Gly Gln Val Ser Phe
 50 55 60
 Lys His Val Val Thr Phe Asn Met Asp Glu Tyr Val Gly Leu Pro Lys
 65 70 75 80
 Glu His Pro Glu Ser Tyr His Ser Phe Met His Arg Asn Phe Phe Asp
 85 90 95
 His Val Asp Ile Pro Ala Glu Asn Ile Asn Leu Leu Asn Gly Asn Ala
 100 105 110
 Pro Asp Ile Asp Ala Glu Cys Arg Gln Tyr Glu Glu Lys Ile Arg Ser
 115 120 125
 Tyr Gly Lys Ile His Leu Phe Met Gly Gly Val Gly Asn Asp Gly His
 130 135 140
 Ile Ala Phe Asn Glu Pro Ala Ser Ser Leu Ala Ser Arg Thr Arg Ile
 145 150 155 160
 Lys Thr Leu Thr His Asp Thr Arg Val Ala Asn Ser Arg Phe Phe Asp
 165 170 175
 Gly Asp Val Asn Gln Val Pro Lys Tyr Ala Leu Thr Val Gly Val Gly
 180 185 190
 Thr Leu Leu Asp Ala Glu Glu Val Met Ile Leu Val Leu Gly Ala Val
 195 200 205
 Lys Ala Gln Ala Leu Gln Ala Ala Val Glu Gly Asn Val Asn His Met

210		215		220
Trp Thr Ile Ser Cys	Leu Gln Leu His Pro Lys	Ala Val Val Val Cys		
225	230	235	240	
Asp Glu Pro Ser Thr	Met Glu Leu Lys Val Lys Thr	Leu Lys Tyr Phe		
	245	250	255	
Asn Glu Leu Glu Ala	Glu Asn Ile Lys Gly Leu			
260	265			

<210> 5936

<211> 399

<212> PRT

<213> Enterobacter cloacae

<400> 5936

Val Ser Lys Ser Met Thr Pro Gly Gly Gln Ala Gln Ile Gly Asn Val	
1 5 10 15	
Asp Leu Val Lys Gln Leu Asn Ser Ala Ala Val Tyr Arg Leu Ile Asp	
20 25 30	
Gln His Gly Pro Ile Ser Arg Ile Gln Ile Ala Glu Gln Ser Gln Leu	
35 40 45	
Ala Pro Ala Ser Val Thr Lys Ile Thr Arg Gln Leu Ile Glu Arg Gly	
50 55 60	
Leu Ile Lys Glu Val Asp Gln Gln Ala Ser Thr Gly Gly Arg Arg Ala	
65 70 75 80	
Ile Ser Ile Val Thr Glu Thr Arg Asn Phe Gln Ala Ile Gly Val Arg	
85 90 95	
Leu Gly Arg His Asp Thr Thr Leu Thr Leu Tyr Asp Leu Ser Ser Lys	
100 105 110	
Ala Ile Ala Glu Glu His Tyr Pro Leu Pro Glu Arg Thr Gln Glu Thr	
115 120 125	
Leu Glu His Ala Leu Leu Asn Thr Ile Ala Gln Phe Ile Glu Ser Cys	
130 135 140	
Gln Arg Lys Ile Arg Glu Leu Ile Ala Ile Ser Val Ile Leu Pro Gly	
145 150 155 160	
Leu Val Asp Pro Glu Ser Gly Val Ile Arg Tyr Met Pro His Ile Lys	
165 170 175	
Val Glu Asn Trp Gly Leu Val Glu Ala Leu Glu Lys Arg Phe Lys Leu	
180 185 190	
Thr Cys Phe Val Gly His Asp Ile Arg Ser Leu Ala Leu Ala Glu His	
195 200 205	
Tyr Phe Gly Ala Ser Gln Asp Cys Glu Asp Ser Ile Leu Val Arg Val	
210 215 220	
His Arg Gly Thr Gly Ala Gly Ile Ile Ser Asn Gly Arg Ile Phe Ile	
225 230 235 240	
Gly Arg Asn Gly Asn Val Gly Glu Ile Gly His Ile Gln Val Glu Pro	
245 250 255	
Leu Gly Glu Arg Cys His Cys Gly Asn Phe Gly Cys Leu Glu Thr Val	
260 265 270	
Ala Ala Asn Ala Ala Ile Glu His Arg Val Arg His Leu Leu Glu Gln	
275 280 285	
Gly Tyr Gln Ser Arg Val Thr Leu Asp Asp Cys Lys Ile Gly Ala Ile	
290 295 300	
Cys Lys Ala Ala Asn Lys Gly Asp Ala Leu Ala Cys Glu Val Ile Glu	
305 310 315 320	
Gln Val Gly Arg His Leu Gly Lys Thr Ile Ala Ile Ala Ile Asn Leu	
325 330 335	
Phe Asn Pro Gln Lys Val Val Ile Ala Gly Glu Ile Val Glu Ala Glu	
340 345 350	
Lys Val Leu Leu Pro Ala Ile Glu Gly Cys Ile Asn Thr Gln Ala Leu	
355 360 365	
Lys Ala Phe Arg Gln Asn Leu Pro Val Val Arg Ser Thr Leu Asp His	

370 375 380
 Arg Ser Ala Ile Val Phe Ile His Glu Gly Arg Glu Arg Arg
 385 390 395

<210> 5937
 <211> 115
 <212> PRT
 <213> Enterobacter cloacae

<400> 5937
 Met Arg Arg Asp Met Tyr Glu Val Met Asp Arg Trp Gly Ala Trp Ala
 1 5 10 15
 Ala Ala Asp Ser Ser Gly Val Asp Trp Gln Pro Ile Ala Ala Gly Phe
 20 25 30
 Lys Gly Leu Leu Pro His Gly Lys Lys Ser Arg Leu Gln Cys Asp Asp
 35 40 45
 Asp Glu Gly Ile Met Ile Asp Gly Cys Ile Ala Arg Leu Arg Lys Phe
 50 55 60
 Lys Ser Asp Glu Tyr Glu Leu Leu Ile Ala His Phe Val Ile Gly Ile
 65 70 75 80
 Ser Leu Arg Thr Ile Ala Lys Lys Lys Lys Cys Ser Asp Gly Thr Val
 85 90 95
 Arg Lys Asp Leu Gln Thr Ala Leu Gly Phe Val Glu Gly Val Met Ser
 100 105 110
 Met Leu
 115

<210> 5938
 <211> 212
 <212> PRT
 <213> Enterobacter cloacae

<400> 5938
 Asp Val Met Gly Ile Met Cys Asp Met Ser Tyr Arg Leu Tyr Pro Leu
 1 5 10 15
 Lys Asn Thr Val Ala Phe Arg Lys Thr Thr Glu Lys Trp Gly Gly Leu
 20 25 30
 Ser Asn Met Ala Lys Gly Tyr Pro Leu Leu Ile Asn Gly Leu Pro Ile
 35 40 45
 Gln Ser Ser Glu Ile Leu Tyr Gln Ala Cys Arg Tyr Pro Asp Tyr Pro
 50 55 60
 Glu Ile Gln Lys Ala Ile Ile Thr Gln Gly Asn Pro Tyr Glu Ala Lys
 65 70 75 80
 Gln Thr Ala Arg Ser Phe Glu Ala Lys Thr Arg Ser Gly Trp Glu Lys
 85 90 95
 Asn Arg Val Ser Ile Met Lys Trp Cys Val Cys Val Lys Leu Cys Gln
 100 105 110
 Asn Trp Glu Thr Phe Phe Ala Leu Asp Ser Thr Gly Glu His Asp
 115 120 125
 Ile Val Glu His Ser Glu Lys Asp Gln Phe Trp Gly Ala Ser Lys Asp
 130 135 140
 Ser Glu Gly Asn Phe Tyr Gly Met Asn Val Leu Gly Arg Ile Leu Met
 145 150 155 160
 Asp Val Arg Asp Val Ala Arg Lys Arg Gly Pro Thr Gly Phe Ala Ser
 165 170 175
 Ile Pro Pro Leu Pro Leu Glu Lys Phe Leu Leu Leu Gly Asp His Ile
 180 185 190
 Arg Asp Val Thr Phe Thr Pro Pro Val Asp Thr Gly His Ser Leu
 195 200 205
 Ser Leu Phe
 210

<210> 5939
 <211> 217
 <212> PRT
 <213> Enterobacter cloacae

<400> 5939

```

Ser Ser Arg Ile Arg Cys Asn Met Leu Phe His Thr Asn Asn Ser Ile
1      5      10      15
Tyr Leu Ser His Asn Asp Gly Gln Gln Val Ser His Thr Pro Ser Met
20      25      30
His Cys Tyr Gly Cys Val Lys Lys Cys Leu Phe Gly Asp Ala Glu Ala
35      40      45
Cys Ala Arg Lys Thr Cys Thr Gly Leu Glu Cys Tyr Ile Trp Pro Asp
50      55      60
Asn Asn Ser Tyr Leu Val Glu Gly Ile Arg His Tyr Phe Glu Cys Val
65      70      75      80
Ser Asp Lys Tyr Ile Ser Gln Pro Val Val Ile Ile Asp Phe Ser His
85      90      95
Lys Asn Ile Thr Tyr Phe Leu Asn Asp Ser Trp Leu Glu Gln Phe Lys
100     105     110
Asn Met Arg Leu Ile Leu Val Thr Asp Lys Lys Met Thr Ala Ile Ala
115     120     125
His Tyr Trp Phe Tyr Asn Asp Thr Leu Glu Thr Thr Ile Ser Ser Ile
130     135     140
Ile Phe Tyr Asp Asp Ser Ala Glu Glu Val Ala Thr Lys Leu Lys Lys
145     150     155     160
Thr Phe Leu Ala Lys Thr Ile Lys Pro Ser Gly Ser Arg Pro Lys Leu
165     170     175
Ser Gln Asn Glu Phe Ser Leu Phe Ser Phe Leu Phe Asn Gly Trp Thr
180     185     190
Pro Lys Lys Ile Ala Tyr Gln Asn Gly Thr Ser Val Lys Asn Thr Tyr
195     200     205
Ala Met Lys Asn Leu His His Glu
210     215

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<210> 5940
 <211> 812
 <212> PRT
 <213> Enterobacter cloacae

<400> 5940

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Phe Met Arg Ile Cys Cys Leu Gly Arg Ile Lys Thr Leu Phe Tyr His
1      5      10      15
Gly Leu Ser Leu Tyr Leu Ser Ser Leu Ile Leu Leu Ala Trp Thr Ala
20      25      30
Ala Leu Gly Val Ala Gly Leu Trp Asn Ile Trp Val Leu Val Pro Leu
35      40      45
Ala Ile Ile Leu Leu Pro Phe Asn Leu Thr Pro Met Arg Lys Ser Met
50      55      60
Ile Ser Val Pro Val Phe Arg Gly Phe Arg Lys Val Met Pro Pro Met
65      70      75      80
Ser Arg Thr Glu Lys Glu Ala Ile Asp Ala Gly Thr Thr Trp Trp Glu
85      90      95
Gly Asp Leu Phe Gln Gly Asn Pro Asp Trp Lys Lys Leu His Asn Tyr
100     105     110
Pro Gln Pro Arg Leu Thr Ala Glu Glu Gln Ala Phe Ile Asp Gly Pro
115     120     125
Val Glu Glu Ala Cys Arg Met Ala Asn Asp Phe Ala Ile Thr His Glu
130     135     140
Met Ala Asp Leu Pro Pro Glu Leu Trp Ala Tyr Leu Lys Glu His Arg

```

145 150 155 160
 Phe Phe Ala Met Ile Ile Lys Lys Glu Tyr Gly Gly Leu Glu Phe Ser
 165 170 175
 Ala Tyr Ala Gln Ala Arg Val Leu Gln Lys Leu Ala Gly Val Ser Gly
 180 185 190
 Ile Leu Ala Ile Thr Val Gly Val Pro Asn Ser Leu Gly Pro Gly Glu
 195 200 205
 Leu Leu Gln His Tyr Gly Thr Glu Glu Gln Lys Asp His Tyr Leu Pro
 210 215 220
 Arg Leu Ala Arg Gly Gln Glu Ile Pro Cys Phe Ala Leu Thr Ser Pro
 225 230 235 240
 Glu Ala Gly Ser Asp Ala Gly Ala Ile Pro Asp Thr Gly Val Val Cys
 245 250 255
 Met Gly Glu Trp Gln Gly Gln Gln Val Leu Gly Met Arg Leu Thr Trp
 260 265 270
 Asn Lys Arg Tyr Ile Thr Leu Ala Pro Ile Ala Thr Val Leu Gly Leu
 275 280 285
 Ala Phe Lys Leu Ser Asp Pro Glu Lys Leu Leu Gly Gly Glu Glu Asp
 290 295 300
 Leu Gly Ile Thr Cys Ala Leu Ile Pro Thr Ser Thr Pro Gly Val Glu
 305 310 315 320
 Ile Gly Arg Arg His Phe Pro Leu Asn Val Pro Phe Gln Asn Gly Pro
 325 330 335
 Thr Arg Gly Gln Asp Ile Phe Val Pro Ile Asp Tyr Ile Ile Gly Gly
 340 345 350
 Pro Lys Met Ala Gly Gln Gly Trp Arg Met Leu Val Glu Cys Leu Ser
 355 360 365
 Val Gly Arg Gly Ile Thr Leu Pro Ser Asn Ser Thr Gly Gly Leu Lys
 370 375 380
 Ser Val Ala Met Gly Ile Gly Ala Tyr Ala His Ile Arg Arg Gln Phe
 385 390 395 400
 Lys Ile Ser Ile Gly Lys Met Glu Gly Ile Glu Glu Pro Leu Ala Arg
 405 410 415
 Ile Ala Gly Asn Ala Tyr Val Met Asp Ala Ala Ala Ser Leu Ile Thr
 420 425 430
 Tyr Gly Ile Met Leu Gly Glu Lys Pro Ala Val Leu Ser Ala Ile Val
 435 440 445
 Lys Tyr His Cys Thr His Arg Ala Gln Gln Ser Ile Ile Asp Ala Met
 450 455 460
 Asp Ile Ala Ser Gly Lys Gly Ile Met Leu Gly Glu Gly Asn Phe Leu
 465 470 475 480
 Ala Arg Asn Tyr Gln Gly Ala Pro Ile Ala Ile Thr Val Glu Gly Ala
 485 490 495
 Asn Ile Leu Thr Arg Ser Met Met Ile Phe Gly Gln Gly Ala Ile Arg
 500 505 510
 Cys His Pro Tyr Val Leu Glu Glu Met Ala Ala Ala Gln Asn Asn Asp
 515 520 525
 Val Asp Ala Phe Asp Lys Leu Leu Phe Lys His Ile Gly His Val Gly
 530 535 540
 Ser Asn Glu Val Arg Ser Phe Trp Leu Gly Leu Thr Arg Gly Leu Thr
 545 550 555 560
 Ser Ala Thr Pro Thr Gly Asp Ala Thr Lys Arg Tyr Tyr Gln His Leu
 565 570 575
 Asn Arg Leu Ser Ala Asn Leu Ala Leu Leu Ser Asp Val Ser Met Ala
 580 585 590
 Val Leu Gly Gly Ser Leu Lys Arg Arg Glu Arg Ile Ser Ala Arg Leu
 595 600 605
 Gly Asp Val Leu Ser Gln Ile Phe Leu Ala Ser Ala Val Leu Lys Arg
 610 615 620
 Tyr Asp Asp Glu Gly Arg Gln Glu Ala Asp Leu Pro Leu Val His Trp
 625 630 635 640

Gly Val Gln Asp Ala Leu Tyr Gln Ala Glu Gln Ala Ile Asp Asp Leu
 645 650 655
 Leu Ala Asn Phe Pro Asn Arg Phe Val Ala Gly Ala Leu Arg Val Val
 660 665 670
 Ile Phe Pro Thr Gly Arg His His Leu Ala Pro Ser Asp Lys Leu Asp
 675 680 685
 His Lys Val Ala Lys Ile Leu Gln Val Pro Ser Ala Thr Arg Ser Arg
 690 695 700
 Ile Gly Arg Gly Gln Tyr Leu Ala Pro Thr Pro His Asn Pro Val Gly
 705 710 715 720
 Leu Leu Glu Glu Ala Leu Leu Asp Val Met Ala Ala Asp Pro Ile His
 725 730 735
 Gln Lys Ile Cys Lys Gln Leu Gly Lys Asn Leu Pro Phe Thr Arg Leu
 740 745 750
 Asp Glu Leu Ala Lys Gln Ala Leu Ala Gly Gly Ile Ile Asp Asn Ser
 755 760 765
 Glu Ala Ala Ile Leu Val Lys Ala Glu Glu Ser Arg Leu Arg Ser Ile
 770 775 780
 Asn Val Asp Asp Phe Glu Pro Glu Glu Leu Ala Thr Gln Pro Val Lys
 785 790 795 800
 Leu Pro Glu Lys His Arg Lys Pro Glu Ala Ala
 805 810

<210> 5941

<211> 263

<212> PRT

<213> *Enterobacter cloacae*

<400> 5941

Gly Val Gly Ile Val Pro Gly Leu Lys Ile Ser Val Leu Gln Gln Pro
 1 5 10 15
 Leu Val Trp Met Asp Gly Pro Ala Asn Leu Arg His Phe Asp Arg Gln
 20 25 30
 Leu Glu Glu Ile Ser Gly Arg Asp Val Ile Val Leu Pro Glu Met Phe
 35 40 45
 Thr Thr Gly Phe Ala Met Glu Ala Ala Lys Gln Ser Met Pro Gln Asp
 50 55 60
 Glu Val Val Ala Trp Met His Ala Lys Ala Gln Glu Thr Asn Ala Leu
 65 70 75 80
 Ile Ala Gly Ser Val Ala Leu Gln Thr Glu Arg Gly Pro Val Asn Arg
 85 90 95
 Phe Leu Leu Val Glu Pro Glu Gly Lys Val His Phe Tyr Asp Lys Arg
 100 105 110
 His Leu Phe Arg Met Ala Asp Glu His Gln His Tyr Val Ala Gly Asn
 115 120 125
 Glu Arg Val Val Phe Glu Trp Arg Gly Trp Arg Ile Leu Pro Leu Val
 130 135 140
 Cys Tyr Asp Leu Arg Phe Pro Val Trp Ser Arg Asn Arg Asn Asp Tyr
 145 150 155 160
 Asp Leu Ala Leu Tyr Val Ala Asn Trp Pro Ala Pro Arg Ser Leu His
 165 170 175
 Trp Gln Ala Leu Leu Thr Ala Arg Ala Ile Glu Asn Gln Ala Tyr Ile
 180 185 190
 Val Gly Cys Asn Arg Val Gly Thr Asp Gly Asn Gly His His Tyr Arg
 195 200 205
 Gly Asp Ser Arg Val Ile Ser Pro Gln Gly Glu Ile Ile Ala Thr Ala
 210 215 220
 Glu Pro His Gln Ala Thr Arg Ile Asp Ala Glu Leu Ser Leu Thr Ala
 225 230 235 240
 Leu Thr Glu Tyr Arg Glu Lys Phe Pro Ala Trp Gln Asp Ala Asp Arg
 245 250 255

Phe Ser Ile Glu Asn Lys
260

<210> 5942
<211> 166
<212> PRT
<213> Enterobacter cloacae

<400> 5942
Glu Asp Ile His Trp Ile Phe Leu Val Ser Arg Pro Leu Tyr Pro Leu
1 5 10 15
Ala Val Glu Leu Leu Met Arg Pro Glu Ser Thr Leu Leu Ser Asp Met
20 25 30
Glu Pro Ile Glu Gly Val Ile Asn Ala Ile Arg Ala Gly Ser Glu Arg
35 40 45
Ala Glu Arg Ile Ser Gln Thr Leu Leu Ile Pro Glu Thr Pro Asp Ile
50 55 60
Glu Glu Glu Ser Glu Gln Met Ile Ala Leu Thr His Ser Glu Arg Lys
65 70 75 80
Val Leu Arg Leu Leu Gly Lys Gly Trp Gly Ile Asn Gln Ile Ala Thr
85 90 95
Leu Leu Asn Lys Ser Asn Lys Thr Ile Ser Ala Gln Lys Asn Ser Ala
100 105 110
Met Arg Arg Leu Ser Leu Arg Ser Asn Ala Asp Met Tyr Ala Trp Ile
115 120 125
Ser Ser Thr Gln Gly Met Arg Glu Leu Ser Leu Met Ser Ala Tyr Gly
130 135 140
Glu Phe Glu Glu Trp Lys Arg Pro Leu Gln Gln Asp Ile Ser Pro Ser
145 150 155 160
Ser Lys Ala Ala Gln
165

<210> 5943
<211> 383
<212> PRT
<213> Enterobacter cloacae

<220>
<221> UNSURE
<222> (327)

<400> 5943
Glu Arg Pro Lys Arg Thr Tyr Asp Arg Arg Ser Ala Met Ser Ala Asn
1 5 10 15
His Ala Ala Phe Asn Leu Ile Phe Arg Phe Val Glu Asn Tyr Val Ser
20 25 30
Pro Ile Ala Gly Arg Ile Ser Ser Gln Arg His Val Met Ala Ile Arg
35 40 45
Asp Gly Phe Ile Ser Ala Met Pro Phe Met Ile Val Gly Ser Phe Leu
50 55 60
Leu Val Phe Ala Tyr Pro Pro Phe Ser Pro Asp Thr Thr Trp Gly Phe
65 70 75 80
Ala Arg Ala Trp Leu Asp Met Ala Lys Gln Phe Glu Gly Gln Ile Leu
85 90 95
Thr Pro Phe Asp Met Thr Met Gly Val Met Ser Leu Tyr Ile Cys Ala
100 105 110
Ala Ile Ala Tyr Asn Leu Gly Lys His Tyr Val Lys Thr His Gln Leu
115 120 125
Asp Pro Phe Met Cys Ala Met Leu Ser Leu Met Ala Phe Leu Leu Val
130 135 140
Ala Ala Pro Lys Thr Lys Gly Ala Leu Pro Val Asp Ser Leu Gly Gly

145 150 155 160
 Thr Gly Ile Phe Thr Ala Ile Leu Val Ala Ile Tyr Cys Val Glu Met
 165 170 175
 Met Arg Phe Leu Lys Ala His Asn Ile Gly Ile Arg Leu Pro Asp Gln
 180 185 190
 Val Pro Pro Met Ile Lys Asn Ser Phe Asp Leu Leu Ile Pro Val Leu
 195 200 205
 Val Val Val Leu Thr Leu Tyr Pro Leu Ser Leu Leu Ile Gln Ser Gln
 210 215 220
 Phe Gly Met Leu Ile Pro Gln Ala Ile Met Ser Ile Phe Lys Pro Leu
 225 230 235 240
 Val Ser Ala Ala Asp Ser Leu Pro Ala Ile Leu Leu Ala Val Leu Ile
 245 250 255
 Gly His Leu Leu Trp Phe Ala Gly Ile His Gly Ala Ala Ile Val Ser
 260 265 270
 Gly Met Leu Gln Met Phe Trp Leu Thr Asn Leu Gly Ala Asn His Thr
 275 280 285
 Ala Leu Ala Ala Asn Gln Pro Leu Pro His Ile Phe Met Glu Ala Phe
 290 295 300
 Trp Thr Phe Phe Ile Val Ile Gly Gly Ser Gly Ala Thr Met Gly Leu
 305 310 315 320
 Val Phe Cys Tyr Leu Arg Xaa Arg Ser Ala His Leu Arg Ser Ile Gly
 325 330 335
 Arg Leu Asn Val Val Pro Ser Ile Phe Asn Ile Asn Glu Pro Val Ile
 340 345 350
 Phe Val Thr Pro Asp Cys Asp Glu Pro Gly Val Leu Tyr Ser Phe Pro
 355 360 365
 Cys Trp Arg Arg Trp Leu Ile Pro Cys Trp His Gly Gln Arg
 370 375 380

<210> 5944

<211> 71

<212> PRT

<213> Enterobacter cloacae

<400> 5944

Phe Pro Ser Cys Arg Gly Arg His Pro Ala Pro Val Gly Ala Ala Trp
 1 5 10 15
 Ala Leu Gly Trp Asp Phe Arg Ala Ala Ile Leu Val Leu Val Leu Ala
 20 25 30
 Cys Val Ser Ala Ile Ile Tyr Phe Pro Phe Phe Lys Val Tyr Glu Lys
 35 40 45
 Gln Leu Leu Gln Gln Glu Ala Glu Glu Ala Gln Arg Asn Gly Glu Glu
 50 55 60
 Glu Asn Gln Gln Val Ala
 65 70

<210> 5945

<211> 230

<212> PRT

<213> Enterobacter cloacae

<400> 5945

Gly Met Glu Lys Thr Thr Ala Thr Arg His Ile Ala Val Ile Glu Ser
 1 5 10 15
 Cys Ser Met Ser Ala Val Gly Leu Lys His Leu Phe Ala Met Pro Ser
 20 25 30
 Leu Ser His Tyr Gln Val His Leu Phe Ser Arg Phe Ala Ser Phe Lys
 35 40 45
 Ala Ala Leu Ser Asp Ile Ser Phe Tyr Ala Val Ile Tyr Ser Leu Ser
 50 55 60

Asp Glu Arg Glu Glu Arg Arg Asn Cys Leu Ala Cys Leu Arg Asp Leu
 65 70 75 80
 Thr Phe Thr His Ser Asp Val Gln Arg Ile Val Leu Ala Ser Asp Glu
 85 90 95
 Met Glu Ala Arg Leu Val Ser His Leu Ser Pro Ser Arg Leu His Gly
 100 105 110
 Ile Ile Ser Lys Ser Val Pro Leu Lys Gln Leu Met Glu Gly Leu Lys
 115 120 125
 Thr Leu Leu Ser Glu Thr His Gln Val Asn Asp Asn Met Tyr Asn His
 130 135 140
 Trp Cys Val Ser Gln Asn Arg Met Leu Ser Pro Thr Glu Arg Ala Ile
 145 150 155 160
 Leu Arg Tyr Met Ser Ser Gly Phe Ser Ile Pro Glu Ile Ala Ala Gln
 165 170 175
 Leu Glu Arg Asn Ile Lys Thr Ile Arg Ala His Lys Phe Asn Ala Met
 180 185 190
 Val Lys Leu Gly Val Asn Ser Asp Val Gly Leu Leu Asp Ala Ala Asp
 195 200 205
 Ile Leu Ala His Leu Pro Ala Arg Glu Val Arg Arg Ser Ala Leu Thr
 210 215 220
 Val Pro Ser Phe Ser
 225 230

<210> 5946

<211> 267

<212> PRT

<213> Enterobacter cloacae

<400> 5946

Arg Leu His Thr Met Ala Thr Arg Thr Ala His Ile Val Glu Pro Leu
 1 5 10 15
 Leu Trp Arg Ala Pro Leu Ser Ala Gly Glu Thr Thr Leu Ala Asp Ala
 20 25 30
 Ile Arg Glu Lys Ile Ala Val Thr Arg Ala His Leu Leu Asp Phe Ile
 35 40 45
 Lys Leu Asp Glu Ala Pro Pro His His Ala Leu Thr Leu Thr Glu Trp
 50 55 60
 Gln Arg Pro Ala Glu Leu Arg Ser Leu Leu Ala Thr Tyr Ser Asp His
 65 70 75 80
 Ile Tyr Arg Asn Gln Pro Thr Leu Thr Arg Glu Asn Lys Pro Leu Leu
 85 90 95
 Ser Leu Trp Ala Gln Trp Tyr Ile Gly Leu Met Val Pro Pro Val Met
 100 105 110
 Leu Ala Leu Leu Thr Gln Glu Thr Met Leu Asp Leu Ser Ser Glu His
 115 120 125
 Phe His Val Glu Phe His Glu Thr Gly Arg Ala Ala Cys Phe Trp Ile
 130 135 140
 Asp Val His Glu Asp Pro Ser Ala Arg His Leu Ser Ala Gln Ala Arg
 145 150 155 160
 Met Glu Arg Leu Ile Thr Arg Ala Leu Val Pro Val Ile Asp Ala Leu
 165 170 175
 Glu Ala Thr Gly Glu Ile Asn Gly Lys Leu Ile Trp Ser Asn Thr Gly
 180 185 190
 Tyr Leu Ile His Trp Tyr Leu Thr Glu Met Lys Pro Leu Leu Gly Asp
 195 200 205
 Glu Lys Val Asp Ala Leu Arg Gln Ser Cys Phe Phe Ala Arg Gln Leu
 210 215 220
 Ser Asp Gly Arg Asp Asn Pro Leu Tyr Arg Thr Val Val Pro Arg Glu
 225 230 235 240
 Gly Leu Leu Val Arg Arg Thr Cys Cys Gln Arg Tyr Arg Leu Pro Asp
 245 250 255

Val Gln Gln Cys Gly Asp Cys Thr Leu Lys
 260 265

<210> 5947

<211> 164

<212> PRT

<213> Enterobacter cloacae

<400> 5947

Gln	Ile	Thr	Gln	Asp	Ile	Cys	Gln	Glu	Glu	Ser	Met	Ser	Leu	Gln	Ser
1			5					10						15	
Val	Gln	Gln	Phe	Phe	Ala	Glu	His	Ala	Pro	Asp	Ile	Glu	Ile	Ile	Glu
			20					25					30		
Leu	Asn	Gln	Ser	Thr	Ala	Thr	Val	Ala	Leu	Ala	Ala	Ala	Ala	His	Asn
			35				40					45			
Val	Glu	Pro	Gly	Gln	Ile	Ala	Lys	Thr	Leu	Ser	Leu	Lys	Ile	Lys	Asn
	50					55					60				
Asp	Val	Ile	Leu	Val	Val	Ala	Lys	Gly	Asp	Ala	Arg	Leu	Asp	Asn	Lys
65					70				75					80	
Lys	Leu	Lys	Glu	Thr	Phe	Gly	Ala	Lys	Ala	Arg	Met	Leu	Ser	Ser	Asp
				85					90					95	
Glu	Val	Val	Thr	Leu	Thr	Gly	His	Pro	Val	Gly	Gly	Val	Cys	Pro	Phe
			100					105					110		
Gly	Leu	Glu	Asn	Pro	Leu	Ser	Val	Tyr	Cys	Asp	Ile	Thr	Leu	Lys	Gln
		115					120					125			
Tyr	Ala	Glu	Val	Leu	Pro	Ala	Ala	Gly	Ala	Ile	His	Ser	Ala	Val	Arg
	130					135					140				
Ile	Ser	Pro	Asp	Arg	Met	Ala	Glu	Leu	Thr	Ala	Ala	Lys	Trp	Val	Asp
145					150					155					160
Val	Cys	Ile													

<210> 5948

<211> 335

<212> PRT

<213> Enterobacter cloacae

<400> 5948

Ile	Ala	Ile	Leu	Pro	Gly	Pro	Cys	Cys	Tyr	Thr	Gln	Ala	Pro	Ser	Thr
1			5						10					15	
Cys	Thr	Ala	Gly	Cys	Ser	Ile	Thr	Ala	Asn	Tyr	Leu	Lys	Lys	Phe	Ile
			20					25					30		
Met	Ser	Arg	Ile	Leu	Ala	Ala	Ile	Thr	Leu	Leu	Leu	Ser	Val	Ile	Leu
		35					40					45			
Thr	Ile	Leu	Val	Thr	Ile	Ala	Cys	Ser	Val	Pro	Ile	Ile	Val	Ala	Gly
	50					55					60				
Ile	Ile	Lys	Leu	Leu	Leu	Pro	Val	Pro	Pro	Val	Trp	Arg	Ala	Val	Ser
65					70				75					80	
Ala	Phe	Cys	Asn	Phe	Met	Met	Tyr	Cys	Trp	Cys	Glu	Gly	Leu	Ala	Ile
			85					90						95	
Leu	Leu	His	Leu	Asn	Pro	Trp	Leu	Lys	Trp	Asp	Val	Gln	Gly	Leu	Glu
			100				105						110		
Lys	Leu	Asn	Lys	Lys	Asn	Trp	Tyr	Leu	Leu	Ile	Cys	Asn	His	His	Ser
		115				120					125				
Trp	Ala	Asp	Ile	Val	Val	Leu	Cys	Val	Leu	Phe	Arg	Lys	His	Ile	Pro
	130					135					140				
Met	Asn	Lys	Tyr	Phe	Leu	Lys	Gln	Gln	Leu	Ala	Trp	Val	Pro	Phe	Ile
145					150				155					160	
Gly	Leu	Ala	Cys	Trp	Ala	Leu	Asp	Met	Pro	Phe	Met	Lys	Arg	Tyr	Ser
			165					170						175	
Arg	Ser	Tyr	Leu	Ile	Arg	His	Pro	Glu	Arg	Arg	Gly	Lys	Asp	Val	Glu

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<210> 5949
<211> 185
<212> PRT
<213> Enterobacter cloacae
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<400> 5949
Cys Ser Phe His Leu Glu Arg His Val Ser Arg Val Asn Pro Thr Ile
1          5          10          15
Lys Glu Ala Ile Phe Val Asn Gln Cys Gln Glu Ile Ile Gly Val Val
          20          25          30
Leu Ala Gly Gly Arg Ala Thr Arg Met Gly Gly Lys Asp Lys Gly Leu
          35          40          45
Gln Leu Leu Asn Asn Thr Pro Leu Trp Gln His Val Ala Asp Thr Leu
          50          55          60
Ala Asp Gln Val Ser Ser Met Ala Ile Ser Ala Asn Arg His Val Asp
65          70          75          80
Ile Tyr Gln Arg Ser Gly Tyr Pro Val Tyr Gln Asp Asn Leu Ala Asp
          85          90          95
Tyr Pro Gly Pro Leu Ala Gly Met Leu Ser Val Met Gln Gln Ser Tyr
          100          105          110
Gly Glu Trp Phe Leu Phe Cys Pro Cys Asp Thr Pro Phe Ile Pro Ser
          115          120          125
Cys Leu Val Glu Arg Leu Val Xaa Arg Arg Gly Gly Ala Pro Val Val
          130          135          140
Trp Val His Asp Gly Glu Arg Glu His Pro Thr Ile Ala Leu Ile Asn
145          150          155          160
Arg Ser Leu Ile Ser Ala Leu Gly Val Leu Leu Ala Ala Gly Asp Arg
          165          170          175
Arg Val Leu Val Phe Met Pro Pro Phe
          180          185

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<400> 5950

Arg Val Ser Leu Asn Glu Arg Ser Thr Thr Met Lys Cys Lys Arg Leu
 1 5 10 15
 Asn Glu Val Ile Glu Leu Leu Gln Pro Ala Trp Gln Lys Glu Pro Glu
 20 25 30
 Leu Asn Leu Met Gln Phe Leu Gln Lys Leu Ala Lys Glu Ser Gly Phe
 35 40 45
 Asp Gly Glu Leu Ala Asp Leu Ser Asp Asp Ile Leu Ile Tyr His Leu
 50 55 60
 Lys Met Arg Asp Ser Ala Lys Asp Ala Val Ile Pro Gly Ile Gln Lys
 65 70 75 80
 Asp Tyr Glu Glu Asp Phe Lys Thr Ala Leu Leu Arg Ala Arg Gly Val
 85 90 95
 Ile Lys Glu
 100

<210> 5951

<211> 334

<212> PRT

<213> Enterobacter cloacae

<400> 5951

Phe Pro Asp Asp Arg Met Asn Asp Gln Ala Phe Thr Phe Gln Thr Leu
 1 5 10 15
 His Pro Asp Thr Ile Met Asp Ala Leu Phe Glu Gln Gly Ile Arg Val
 20 25 30
 Asp Ser Gly Leu Thr Ala Leu Asn Ser Tyr Glu Asn Arg Val Tyr Gln
 35 40 45
 Phe Gln Asp Glu Glu Arg Gln Arg Phe Val Val Lys Phe Tyr Arg Pro
 50 55 60
 Gln Arg Trp Ser Ala Glu Gln Ile Gln Glu Glu His Gln Phe Ala His
 65 70 75 80
 Asp Leu Leu Asp Asp Asp Val Pro Val Ala Ala Pro Ile Lys Phe Asn
 85 90 95
 Asn Gln Thr Leu Leu Thr His Gln Gly Phe Tyr Tyr Ala Val Phe Pro
 100 105 110
 Ser Leu Gly Gly Arg Gln Phe Glu Ala Asp Asn Ile Asp Gln Met Glu
 115 120 125
 Trp Val Ala Arg Tyr Leu Gly Arg Ile His Gln Thr Gly Arg Lys Lys
 130 135 140
 Pro Phe Val Ala Arg Pro Thr Ile Gly Val Lys Glu Tyr Leu Ile Glu
 145 150 155 160
 Pro Arg Gln Val Phe Glu Thr Ser Ala Leu Ile Pro Asn Ala Leu Lys
 165 170 175
 Asp Asn Phe Leu Thr Ala Thr Asp Lys Leu Ile Asp Ala Val Lys Ala
 180 185 190
 Ser Trp Arg Asp Asp Ile Thr Thr Leu Arg Leu His Gly Asp Cys His
 195 200 205
 Ala Gly Asn Ile Leu Trp Arg Asp Gly Pro Leu Phe Val Asp Leu Asp
 210 215 220
 Asp Ala Arg Met Gly Pro Ala Val Gln Asp Leu Trp Met Leu Leu Asn
 225 230 235 240
 Gly Asp Lys Ala Glu Gln Arg Met Gln Leu Glu Thr Ile Ile Glu Ala
 245 250 255
 Tyr Glu Glu Phe Ile Pro Phe Asn Ser Asp Glu Ile Ala Leu Ile Glu
 260 265 270
 Pro Leu Arg Ala Met Arg Phe Val Tyr Tyr Leu Ala Trp Leu Ile Arg
 275 280 285
 Arg Trp Glu Asp Pro Ala Phe Pro Arg Asn Phe Pro Trp Leu Thr Gly
 290 295 300
 Glu Asp Tyr Trp Arg Asn Gln Ile Ser Thr Phe Thr Glu Gln Val Lys
 305 310 315 320

Val Leu Gln Glu Pro Pro Leu Gln Leu Thr Pro Met Tyr
 325 330

<210> 5952

<211> 217

<212> PRT

<213> Enterobacter cloacae

<400> 5952

Leu Asp Thr Pro Arg Arg Glu Leu Ile Met Lys Lys Ile Trp Leu Ala
 1 5 10 15
 Leu Ala Gly Met Ile Leu Ala Phe Ser Ala Thr Ala Ala Gln Phe Thr
 20 25 30
 Asp Gly Lys Gln Tyr Ile Thr Leu Asp Lys Pro Val Ala Gly Glu Pro
 35 40 45
 Gln Val Leu Glu Phe Phe Ser Phe Tyr Cys Pro His Cys Tyr Glu Phe
 50 55 60
 Glu Gln Val Leu His Val Ser Asp Asn Val Lys Lys Lys Leu Pro Glu
 65 70 75 80
 Gly Thr Lys Met Thr Lys Tyr His Val Glu Phe Leu Gly Pro Leu Gly
 85 90 95
 Lys Asp Leu Thr Gln Ala Trp Ala Val Ala Ile Ala Leu Gly Val Glu
 100 105 110
 Asp Lys Ile Thr Ala Pro Met Phe Glu Ala Val Gln Lys Thr Gln Thr
 115 120 125
 Val Gln Thr Thr Ala Asp Ile Arg Lys Val Phe Val Asp Ala Gly Val
 130 135 140
 Lys Gly Glu Asp Tyr Asp Ala Ala Trp Asn Ser Phe Val Val Lys Ser
 145 150 155 160
 Leu Val Ala Gln Gln Glu Lys Ala Ala Ala Asp Phe Gln Leu Gln Gly
 165 170 175
 Val Pro Ala Met Tyr Val Asn Gly Lys Tyr Gln Val Asn Met Arg Gly
 180 185 190
 Met Asp Thr Thr Ser Met Asp Ile Phe Val Gln Gln Tyr Ala Asp Thr
 195 200 205
 Val Lys Tyr Leu Val Glu Lys Lys
 210 215

<210> 5953

<211> 88

<212> PRT

<213> Enterobacter cloacae

<400> 5953

Asp Ala Gln Pro Ala Asn Leu Leu His Arg Gly Arg Lys Arg Ser Ala
 1 5 10 15
 Trp Thr Ile Pro Glu Gly Ala Thr Ala Pro Gln Ala Ala Asp Lys Ile
 20 25 30
 His Thr Asp Phe Val Lys Gly Phe Ile Arg Thr Gln Thr Ile Val Phe
 35 40 45
 Glu Asp Phe Ile Thr Tyr Lys Gly Glu Gln Gly Ala Lys Glu Thr Gly
 50 55 60
 Lys Met Arg Ala Glu Gly Lys Asp Tyr Ile Ile Lys Asp Gly Asp Val
 65 70 75 80
 Met Asn Phe Leu Phe Asn Leu
 85

<210> 5954

<211> 83

<212> PRT

<213> Enterobacter cloacae

<400> 5954

Cys Gln Arg Met Thr Phe Ser Cys Val Arg Arg Leu Cys Val Thr Phe
 1 5 10 15
 Ser Ala Glu Ser Ser Ser Gly Lys Gly Ser Val Glu Val Ala Val Tyr
 20 25 30
 Ala Ala Val Glu Ser Asp Ile Ala Glu Ile Ile Asp Gly Asp His Lys
 35 40 45
 Glu Phe Met Ala Glu Arg Gly Leu Asn Arg Val Ile Arg Ala Gly Tyr
 50 55 60
 Glu Leu Leu Ser Leu Gln Thr Tyr Phe Thr Ala Gly Val Lys Glu Val
 65 70 75 80
 Asn Ala

<210> 5955

<211> 102

<212> PRT

<213> Enterobacter cloacae

<400> 5955

Arg Gln Arg Met Pro Phe Ser Cys Val Arg Arg Leu Cys Val Thr Phe
 1 5 10 15
 Ser Ala Asp Ser Ser Ser Asp Lys Gly Ser Val Val Val Ala Phe Trp
 20 25 30
 Asn Ala Val Glu Ser Asp Ile Ala Glu Met Asn Asp Ala Asp Arg Glu
 35 40 45
 Asp Phe Met Ala Glu Gln Gly Leu Asn Arg Val Ile Arg Ala Gly His
 50 55 60
 Glu Met Leu Ser Leu Gln Thr Tyr Phe Thr Ala Gly Val Lys Glu Val
 65 70 75 80
 Arg Gly Pro Ser Leu Arg Val Arg Leu Arg Leu Arg Arg Pro Ile Lys
 85 90 95
 Ser Thr Pro Ile Ser
 100

<210> 5956

<211> 444

<212> PRT

<213> Enterobacter cloacae

<400> 5956

Val Cys Arg Leu Ser Ile Ser Trp Pro Ala Arg Ile Thr Arg Phe Arg
 1 5 10 15
 Pro Cys Ser Ala Met Lys Ser Ser Arg Ser Ala Ser Phe Ile Ser Ala
 20 25 30
 Ile Ser Asp Ser Thr Ala Phe Gln Asn Ala Thr Thr Thr Glu Pro Leu
 35 40 45
 Ser Leu Glu Glu Ser Ala Glu Lys Val Thr His Asn Arg Leu Thr Gln
 50 55 60
 Leu Asn Gly Ile Arg Trp Arg Tyr Asp Ile His Gly Arg Thr Val Glu
 65 70 75 80
 Lys Asp Asn Gly Gln Thr Arg Trp His Tyr Arg Tyr Asp Gly Glu His
 85 90 95
 Arg Leu Thr Glu Val Ile Ser Gln Pro Arg Asp Arg Asn Arg Pro Gln
 100 105 110
 Thr Leu Val Ser Phe Arg Tyr Asp Pro Leu Gly Arg Arg Ile Ser Lys
 115 120 125
 Thr Arg Arg Gln Met Leu Gly Gly Gln Pro Thr Gly Lys Pro Val Thr
 130 135 140
 Thr Arg Phe Val Trp Glu Gly Phe Arg Leu Leu Gln Glu Val His Gly

145 150 155 160
 Asp Val Pro Leu Thr Tyr Val Tyr Ser Asp Gln Asp Ser Tyr Asp Pro
 165 170 175
 Leu Ala Arg Ile Asp Gly Val Asp Ala Gln Glu Ile Phe Trp Phe His
 180 185 190
 Cys Gln Pro Asn Gly Thr Pro Glu Arg Met Thr Asp Ser Glu Gly Gln
 195 200 205
 Val Arg Trp Glu Gly Val Asn Ser Ala Trp Gly Lys Leu Leu Arg Glu
 210 215 220
 Ser Glu Thr Gln Val Ser Gly Tyr Phe Gln Asn Leu Arg Met Gln Gly
 225 230 235 240
 Gln Tyr Leu Asp Arg Glu Thr Gly Leu His Tyr Asn Leu Phe Arg Tyr
 245 250 255
 Tyr Asp Pro Asp Cys Gly Arg Phe Thr Gln Gln Asp Pro Ile Gly Leu
 260 265 270
 Ala Gly Gly Ile Asn Leu Tyr Gln Tyr Ala Pro Asn Ala Leu Gly Trp
 275 280 285
 Val Asp Pro Trp Gly Leu Ser Arg Glu Cys Ser Gly Lys Thr Lys Pro
 290 295 300
 Asp Phe Tyr Val Gly Pro Asn Gly Pro Ser Ser Thr Met Pro Ser Thr
 305 310 315 320
 Ala Tyr Arg Tyr Met Asp Ser Lys Tyr Ala Pro Gln Thr Ile Glu Asn
 325 330 335
 Lys Ser Ala Pro Leu Ser Tyr Phe Gly Tyr Thr Lys Tyr Lys Ser Ala
 340 345 350
 His Glu Ala Arg Asp Ala Tyr Gln Ile Phe Tyr Glu Lys Gly Asn Pro
 355 360 365
 Asp Ser Trp Ser Asp Ala Arg Leu Leu Gly Glu Phe Asp Thr Leu Gln
 370 375 380
 Leu Tyr Lys Asn Gly Val Pro Gln Val Gln Val Pro Leu Ala Asn Gly
 385 390 395 400
 Gly Arg Gly Pro Gly Tyr Glu Leu Phe Thr Ser Ala Tyr Pro Glu Tyr
 405 410 415
 Gly Lys Gly Gly Ala Leu Gln Leu Leu Pro Ile Glu Arg Asn Tyr Pro
 420 425 430
 Val Ile Phe Glu Arg Val Thr Ile Ile Pro Glu
 435 440

<210> 5957

<211> 268

<212> PRT

<213> Enterobacter cloacae

<400> 5957

Thr Gln Lys Ile Ser Leu Ser Leu Lys Glu Leu Leu Lys Val Gly Gly
 1 5 10 15
 Val Val Val Glu Val Lys Ile Tyr Tyr Lys Gly Ser Val Asp Phe Ile
 20 25 30
 Ala Gly Glu Gly Thr Ile Leu Asn Glu Phe Ile Gly Glu Val Ala Thr
 35 40 45
 Arg Gln Ile Asn Ile Ile Asp Gly Asn Tyr Tyr Ala Ser Ser Ser Leu
 50 55 60
 Leu Asp Lys Lys Glu Lys Val Gly Phe Leu Leu Tyr Asp Gly Lys Lys
 65 70 75 80
 Ser Asp Leu Asn Leu Ser Asp Ala Glu Glu Ile Ser Asn Glu Glu Phe
 85 90 95
 Glu Val Phe Trp Gln Thr Ser Thr Gly Ser Leu Gln Glu Lys Lys Arg
 100 105 110
 Ile Lys Tyr Leu Ser Gly Asp Ala Val Glu Pro Leu Lys Lys Ser Thr
 115 120 125
 Val Ile Ala His Ile Val Asn Asn Lys Gly Lys Trp Gly Lys Gly Phe

130		135		140
Val Leu Ser Leu Ser	Asn Lys Tyr Pro Ala	Ala Lys Lys Ser Tyr Leu		
145	150	155	160	
Ser Cys Phe Lys Glu	Asn Asn Phe Pro Glu	Leu Gly Val Val Asp Phe		
	165	170	175	
Val Met Val Asp Ala	Gln Glu Lys Ile Phe	Ile Ala Asn Met Tyr Ala		
	180	185	190	
Gln Asp Gly Ile Lys	Lys Asn Ile Asn Asp	Lys Lys Gln Tyr Val Cys		
	195	200	205	
Tyr Asp Ser Leu Lys	Val Cys Leu Glu Lys	Leu Ser Asp Phe Ala Leu		
	210	215	220	
Val Asn Arg Leu Ser	Ile Gln Met Pro Arg	Ile Gly Ala Gly Leu Gly		
	225	230	235	240
Gly Gly Asp Trp Asn	Val Ile Glu Ser Leu	Ile Leu Lys Asn Ile Cys		
	245	250	255	
Tyr Lys Met Ile Asp	Cys Asn Val Ile Thr	Leu		
	260	265		

<210> 5958

<211> 68

<212> PRT

<213> Enterobacter cloacae

<400> 5958

Ser Phe Lys Glu Gln	Arg Met Leu Ile	Leu Thr Arg Arg	Val Gly Glu
1	5	10	15
Thr Leu Met Ile Gly	Asp Glu Val Thr	Val Thr Val Leu	Gly Val Lys
	20	25	30
Gly Asn Gln Val Arg	Ile Gly Val Asn	Ala Pro Lys Glu	Val Ser Val
	35	40	45
His Arg Glu Glu Ile	Tyr Gln Arg Ile	Gln Ala Glu Lys	Ser Gln Gln
	50	55	60
Ser Ser Tyr			
65			

<210> 5959

<211> 89

<212> PRT

<213> Enterobacter cloacae

<400> 5959

Ile Gln Phe Gly Asn	Thr Lys Gly Ala His	Lys Arg Phe Asp	Asn Leu
1	5	10	15
Gly Arg Trp Gly Thr	Pro Ala Leu Ala	Val Arg Ala Thr	Glu Ile Phe
	20	25	30
Leu Arg Ser Trp Arg	Pro His Tyr Gly	Ala Ala Leu Pro	Gly Ser Ala
	35	40	45
Glu Glu Asp Gly Asp	Arg Tyr Ile Glu	Ile Trp Asn Ile	Val Phe Met
	50	55	60
Gln Phe Asn Arg Gln	Ala Asp Gly Thr	Met Glu Pro Leu	Pro Lys Thr
	65	70	75
Val Arg Arg Tyr Arg	Tyr Gly Pro		
	85		

<210> 5960

<211> 707

<212> PRT

<213> Enterobacter cloacae

<400> 5960

Ala Gly Gly Gly Pro Arg Pro Leu Arg Tyr Val Pro Pro Arg Phe Phe

1	5							10					15				
Tyr	Asp	His	Gly	Asp	His	Ile	Met	Gly	Arg	Pro	Ser	Arg	Glu	Ala	Arg		
			20					25					30				
Lys	Lys	Met	Ala	Ile	Ala	Ile	Leu	Arg	Ser	Gly	Thr	Leu	Ser	Ser	Cys		
		35					40					45					
Ser	Ser	Thr	Val	Arg	Arg	Thr	Ala	Pro	Trp	Ser	Arg	Cys	Pro	Lys	Pro		
		50				55					60						
Ser	Val	Asp	Thr	Gly	Met	Gly	Leu	Glu	Arg	Ile	Ala	Ala	Val	Leu	Gln		
65				70						75					80		
His	Val	Asn	Ser	Asn	Tyr	Glu	Ile	Asp	Leu	Phe	Ser	Thr	Leu	Ile	Lys		
				85					90					95			
Ala	Val	Ala	Glu	Val	Thr	Gly	Ala	Thr	Asp	Leu	Ser	Asn	Lys	Ser	Leu		
			100					105					110				
Arg	Val	Ile	Ala	Asp	His	Ile	Arg	Ser	Cys	Ala	Phe	Leu	Ile	Ala	Asp		
		115					120					125					
Gly	Val	Ile	Pro	Ser	Asn	Glu	Asn	Arg	Gly	Tyr	Val	Leu	Arg	Arg	Ile		
		130				135					140						
Ile	Arg	Arg	Ala	Ile	Arg	His	Gly	Asn	Met	Leu	Gly	Ala	Lys	Asp	Thr		
145				150						155					160		
Phe	Phe	Tyr	Lys	Leu	Val	Gly	Pro	Leu	Ile	Gly	Val	Met	Gly	Ser	Ala		
				165					170					175			
Gly	Asp	Glu	Leu	Lys	Arg	Gln	Gln	Ala	Gln	Val	Glu	Gln	Val	Leu	Lys		
			180					185					190				
Thr	Glu	Glu	Glu	Gln	Phe	Ala	Arg	Thr	Leu	Glu	Arg	Gly	Leu	Ala	Leu		
			195				200					205					
Leu	Asp	Asp	Glu	Leu	Ala	Lys	Leu	Lys	Gly	Asp	Thr	Leu	Asp	Gly	Glu		
		210				215					220						
Thr	Ala	Phe	Arg	Leu	Tyr	Asp	Thr	Tyr	Gly	Phe	Pro	Val	Asp	Leu	Thr		
225				230						235					240		
Ala	Asp	Val	Cys	Arg	Glu	Arg	Asn	Ile	Lys	Val	Asp	Glu	Ala	Gly	Phe		
				245					250					255			
Glu	Ala	Ala	Met	Glu	Glu	Gln	Arg	Arg	Arg	Ala	Arg	Glu	Ser	Ser	Gly		
			260					265					270				
Phe	Gly	Ala	Asp	Tyr	Asn	Ala	Met	Ile	Arg	Val	Asp	Ser	Ala	Ser	Glu		
		275					280					285					
Phe	Lys	Gly	Tyr	Glu	Glu	Leu	Ala	Leu	Thr	Ser	Asn	Val	Thr	Ala	Leu		
		290				295					300						
Phe	Val	Asp	Gly	Lys	Ala	Val	Asp	Ser	Ile	Ser	Ala	Gly	Gln	Asp	Ala		
305				310						315					320		
Val	Val	Ile	Leu	Asp	Lys	Thr	Pro	Phe	Tyr	Ala	Glu	Ser	Gly	Gly	Gln		
				325					330					335			
Val	Gly	Asp	Lys	Gly	Glu	Leu	Lys	Gly	Asn	Gly	Phe	Ser	Phe	Ser	Val		
			340					345					350				
Ser	Asp	Thr	Gln	Lys	Tyr	Gly	Gln	Ala	Ile	Gly	His	Gln	Gly	Lys	Leu		
		355					360					365					

Cys Gly Gly Thr His Ala Ser Arg Thr Gly Asp Ile Gly Leu Phe Arg
 500 505 510
 Ile Val Ser Glu Ser Gly Thr Ala Gly Val Arg Arg Ile Glu Ala
 515 520 525
 • Val Thr Gly Glu Gly Ala Ile Ala Ser Leu His Ala Gln Ser Asp Gln
 530 535 540
 Leu His Glu Ile Ala Gln Leu Leu Lys Gly Asp Ser Gln Asn Leu Gly
 545 550 555 560
 Glu Lys Val Arg Val Ala Leu Asp Arg Thr Arg Gln Leu Glu Lys Glu
 565 570 575
 Leu Gln Gln Leu Lys Glu Gln Ala Ala Gln Glu Ser Ala Asn Leu
 580 585 590
 Ser Ser Lys Ala Val Asp Ile Lys Gly Val Lys Leu Leu Val Ser Asp
 595 600 605
 Leu Ala Gly Val Glu Pro Lys Met Leu Arg Thr Met Val Asp Asp Leu
 610 615 620
 Lys Asn Gln Leu Gly Ser Thr Val Ile Val Leu Ala Thr Val Ala Glu
 625 630 635 640
 Gly Lys Val Ser Leu Ile Ala Gly Val Ser Lys Asp Val Thr Asp Arg
 645 650 655
 Val Lys Ala Gly Glu Leu Ile Gly Met Val Ala Gln Gln Val Gly Gly
 660 665 670
 Lys Gly Gly Gly Arg Pro Asp Met Ala Gln Ala Gly Gly Thr Asp Ala
 675 680 685
 Ala Ala Leu Pro Ala Ala Leu Ala Ser Val Glu Ser Trp Val Ser Ala
 690 695 700
 Lys Leu
 705

<210> 5961

<211> 299

<212> PRT

<213> Enterobacter cloacae

<400> 5961

Val Ser Pro Leu Ile Gln Leu Leu Asp Arg Pro Ile Ala Tyr Gln Pro
 1 5 10 15
 Ala Phe Ala Gln Leu Arg Ala Gly Lys Val Lys Ser Gly Pro Ala Ala
 20 25 30
 Ala Val Leu Leu Ser Gln Leu Val Tyr Trp His Asn Arg Met Asp Gly
 35 40 45
 Glu Trp Leu Tyr Lys Thr Arg Glu Asp Ile Lys Lys Glu Thr Gly Leu
 50 55 60
 Ser Arg Asp Glu Gln Glu Thr Ala Arg Lys Arg Leu Val Ala Leu Gly
 65 70 75 80
 Val Leu Gln Glu Asp Leu Arg Gly Val Pro Ala Thr Val His Tyr Arg
 85 90 95
 Ile Asn Thr Glu Arg Leu Glu Ala Leu Leu Ala Pro Gly Gln Ala
 100 105 110
 Glu Ser Gln Leu Gly Ala Thr Pro Pro Thr Arg Arg Arg Gln Pro Arg
 115 120 125
 Gln Gln Asp Gly Gly Asn Ala Pro Asn Lys Met Val Glu Thr Pro Pro
 130 135 140
 Thr Arg Arg Val Glu Pro Thr Gln Gln Val Gly Trp Val Pro Ala Asn
 145 150 155 160
 Phe Pro Thr Gly Asp Tyr Thr Glu Ile Thr Gln Glu Ser Thr Gln Glu
 165 170 175
 Ile Thr Gln Lys Ala Gly Glu Lys Asn Ser Val Asp Asn Phe Ser Glu
 180 185 190
 Ile Tyr Pro Glu Ala Glu Ile Phe Asp Ala Glu Lys Lys Thr Trp Gly
 195 200 205

Thr Ala Glu Asp Leu Glu Phe Ala Gln Trp Phe Phe Ala Arg Ile Val
 210 215 220
 Glu Leu His Glu Lys Ala Ala Glu Tyr Asp Gly Met Leu Ser Arg Pro
 225 230 235 240
 Lys Glu Pro Asp Trp Thr Gly Trp Ala Asp Glu Val Arg Gln Leu Arg
 245 250 255
 Glu Gly Gln Arg Cys Asp His Gln Ala Asp Ala Lys Pro Gly Arg Ala
 260 265 270
 Tyr Ser Ala Arg Pro Val Gly Gly Ala Arg Arg Phe Arg Leu Pro Lys
 275 280 285
 Cys Cys Thr Pro Asn Gly Gln Asn Trp Ser
 290 295

<210> 5962

<211> 219

<212> PRT

<213> Enterobacter cloacae

<400> 5962

Met Glu Thr Val Leu Asp Val Leu Lys Ala Met Gly Lys Thr Thr Tyr
 1 5 10 15
 Arg Asp Val Ala Arg Leu Asp Ile Glu Pro Val Val Ala Leu Asn
 20 25 30
 Met Leu Arg Glu Gln Lys Glu Gln Gly Leu Cys Asp Tyr Ala Asp Gly
 35 40 45
 Gly Trp Phe Leu Gly Thr Ala Ala Lys Gln Lys Pro Lys Arg Ile Arg
 50 55 60
 Pro Lys Gln Glu Ser Glu Leu Val Gly Arg Ile Leu Ala Val Met Gln
 65 70 75 80
 Gly Gln Gly Ala Ile Ser Ala Glu Lys Ile Ala Lys Leu Leu Gly Lys
 85 90 95
 Thr Ser Arg Ala Leu Asn Ala Ser Leu Gly Ala Leu Gly Lys Glu Gly
 100 105 110
 Arg Val Val Arg His Val Asp Gly Lys Asn Ile Thr Trp Ser Leu Lys
 115 120 125
 Asn Asp Asp Ala Pro Ala Pro Ala Thr Ala Ala Pro Ile Ala Asn Ala
 130 135 140
 Arg Gln Ala Glu Ser Ala Leu Ala Glu Lys Ser Thr Ala Gln Ile Ile
 145 150 155 160
 Glu Glu Ile Pro Ala Phe Thr Ala Arg Pro Asn Asp Leu Ala Ile Pro
 165 170 175
 Ser Ser Arg Phe Ile Ser Ser Glu Ile Arg Arg Thr Lys Ala Lys Leu
 180 185 190
 Ala Ser Leu Gln Lys Leu Gln Cys Ala Ala Arg Gln Leu Arg Arg His
 195 200 205
 Lys His Leu Leu Val Gly Leu Asp Asn Glu
 210 215

<210> 5963

<211> 139

<212> PRT

<213> Enterobacter cloacae

<400> 5963

Leu Met Glu Ile Lys His Glu His Ile Gln Cys Val Leu Leu Ala Trp
 1 5 10 15
 Ala Ala Glu Val Gly Gln Ala His Ala Ala Glu Ala Ile Thr Ala Glu
 20 25 30
 Tyr Thr Arg Gln Gly Gly Ala Glu Leu Pro Leu Val Ala Gly Asn Thr
 35 40 45
 Trp Asn Asn Gln Gln Asn Ile Phe His Arg Trp Leu Asp Gly Ser Thr

50		55		60	
Pro	Gln	Arg	Arg	Ala	Lys
65		70	Ile	Arg	Glu
Val	Leu	Pro	Arg	Ser	Ile
		85	Arg	His	Arg
		90	Leu	Ser	Ile
Glu	Arg	Arg	Ala	Leu	Leu
		100	Ala	Gln	Asp
		105	Ala	Leu	Gly
Asp	Ala	His	Asp	Asp	Ala
		115	Val	Glu	Ala
		120	Leu	Phe	Gln
His	Ala	Ala	Ala	Asp	Ser
		130	Pro	Lys	Phe
		135	His		

<210> 5964

<211> 126

<212> PRT

<213> Enterobacter cloacae

<400> 5964

Val	His	Arg	Gly	Asp	Val	Val	Ser	Val	Lys	Cys	Cys	Gly	Cys	Gln	Glu
1			5						10					15	
Leu	Leu	Glu	Glu	Asp	Glu	Val	Phe	Lys	Leu	Ala	Asp	Ser	Cys	Gly	Val
			20					25					30		
Asp	Ile	Cys	Asp	Arg	Cys	Ala	Ser	Arg	Val	Val	His	Ser	Tyr	Asn	Glu
		35					40					45			
Trp	His	Gly	Gly	Phe	Ser	Tyr	Ala	Pro	Val	Lys	Gln	Lys	Asn	Pro	Arg
	50					55					60				
Lys	Ser	Ile	Ser	Ala	Ala	Val	Lys	Leu	Lys	Ile	Phe	Gln	Arg	Asp	Gly
65					70				75					80	
Phe	Arg	Cys	Lys	His	Cys	Gly	Thr	Ser	Glu	Ala	Leu	Thr	Ile	Asp	His
			85					90					95		
Ile	Gln	Pro	Val	Ser	Lys	Gly	Gly	Ser	Asn	Gln	Asp	Glu	Asn	Leu	Gln
			100					105					110		
Thr	Leu	Cys	Ala	Ser	Cys	Asn	Ser	Arg	Lys	Gly	Val	Lys			
		115					120					125			

<210> 5965

<211> 205

<212> PRT

<213> Enterobacter cloacae

<400> 5965

Arg	Lys	Asn	Gly	Leu	Ala	Tyr	Ile	Asn	Ala	Val	Tyr	Pro	Phe	Asn	Phe
1				5					10					15	
Ile	Ile	Pro	Leu	Gly	Ile	Ser	Ala	Cys	Leu	Ala	Tyr	Ile	Leu	Pro	Ile
		20					25					30			
Ile	Asn	Glu	Lys	Ile	Thr	Tyr	Leu	Gln	Ser	Arg	Pro	Ile	Ser	Arg	Thr
		35				40					45				
Ala	Ile	Leu	Leu	Ser	Ile	Arg	Ala	Lys	Lys	Ala	Leu	Val	Ala	Asp	Ile
	50					55				60					
Ser	Leu	Glu	Lys	Tyr	Arg	Ala	Lys	Arg	Asp	Val	Thr	Tyr	Glu	Arg	His
65					70				75					80	
Val	Ala	Gly	Ala	Glu	Lys	Glu	Ile	Gln	Asp	Met	Arg	Glu	Glu	Ile	Val
			85					90					95		
Asn	Ser	Lys	Glu	Arg	Val	Gly	Glu	Met	Asn	Ala	Ala	Leu	Leu	Glu	Leu
		100					105					110			
Asn	Gln	Lys	Asn	Asp	Glu	Ile	Asn	Ala	Leu	Leu	Gln	Asp	Ser	Asn	Ile
		115				120					125				
Arg	Asn	Lys	Lys	Leu	Ser	Asp	Glu	Ile	Glu	Arg	His	Lys	Ile	Ala	Glu
	130					135				140					
Thr	Arg	Phe	Phe	Gly	Glu	Ile	Glu	Asp	Leu	Asn	Lys	Glu	Leu	Asp	Arg
145					150				155						160

Leu Tyr Ser Leu Leu Lys Met Glu Pro Thr Arg Gly Val Gly Leu Gly
 165 170 175
 Ile Arg Lys Ile Thr Thr Ile Asn Gly Glu Glu Asn Ser Asp Thr Asp
 180 185 190
 Asp Thr Gln Tyr Arg Pro Gly Ser Asn Glu Asp Lys
 195 200 205

<210> 5966

<211> 242

<212> PRT

<213> Enterobacter cloacae

<400> 5966

Val Ala Asn Met Gln Thr Pro His Ile Leu Ile Val Glu Asp Glu Leu
 1 5 10 15
 Val Thr Arg Asn Thr Leu Lys Ser Ile Phe Glu Ala Glu Gly Tyr Asp
 20 25 30
 Val Phe Glu Ala Thr Asp Gly Ala Glu Met His Gln Ile Leu Ser Glu
 35 40 45
 Asn Asp Ile Asn Leu Val Ile Met Asp Ile Asn Leu Pro Gly Lys Asn
 50 55 60
 Gly Leu Leu Leu Ala Arg Glu Leu Arg Glu Gln Ala Asn Val Ala Leu
 65 70 75 80
 Met Phe Leu Thr Gly Arg Asp Asn Glu Val Asp Lys Ile Leu Gly Leu
 85 90 95
 Glu Ile Gly Ala Asp Asp Tyr Ile Thr Lys Pro Phe Asn Pro Arg Glu
 100 105 110
 Leu Thr Ile Arg Ala Arg Asn Leu Leu Ser Arg Thr Met Asn Leu Gly
 115 120 125
 Thr Val Ser Glu Glu Arg Arg Ser Val Asp Ser Tyr Lys Phe Asn Gly
 130 135 140
 Trp Glu Leu Asp Ile Asn Ser Arg Ser Leu Ile Ser Pro Asn Gly Glu
 145 150 155 160
 Gln Tyr Lys Leu Pro Arg Ser Glu Phe Arg Ala Met Leu His Phe Cys
 165 170 175
 Glu Asn Pro Gly Lys Ile Gln Ser Arg Ala Glu Leu Leu Lys Lys Met
 180 185 190
 Thr Gly Arg Glu Leu Lys Pro His Asp Arg Thr Val Asp Val Thr Ile
 195 200 205
 Arg Arg Ile Arg Lys His Phe Glu Ser Thr Pro Asp Thr Pro Glu Ile
 210 215 220
 Ile Ala Thr Ile His Gly Glu Gly Tyr Arg Phe Cys Gly Asp Leu Gln
 225 230 235 240
 Glu

<210> 5967

<211> 229

<212> PRT

<213> Enterobacter cloacae

<400> 5967

Met His Leu Ser Ile Val Leu Val Ala Pro Ala Arg Ala Glu Asn Ile
 1 5 10 15
 Gly Ala Ala Ala Arg Ala Met Lys Thr Met Gly Phe Thr Asp Leu Arg
 20 25 30
 Ile Val Asp Ser Thr Ala His Leu Glu Pro Ala Ala Arg Trp Val Ala
 35 40 45
 His Gly Ser Gly Asp Ile Leu Asp Asn Ile Thr Thr Tyr Ala Thr Leu
 50 55 60
 Ala Asp Ala Leu His Asp Ile Ser Phe Thr Val Ala Thr Thr Ala Arg

65					70					75				80	
Ser	Arg	Ala	Lys	Phe	His	Tyr	Tyr	Ala	Thr	Pro	Ala	Glu	Leu	Val	Pro
				85					90					95	
Met	Leu	Glu	Glu	Lys	Ser	Gln	Trp	Leu	Glu	Lys	Ala	Ala	Leu	Val	Phe
			100					105					110		
Gly	Arg	Glu	Asp	Ser	Gly	Leu	Thr	Asn	Glu	Glu	Leu	Ala	Leu	Ala	Asp
		115					120					125			
Val	Leu	Thr	Gly	Ala	Pro	Met	Val	Ala	Asp	Tyr	Pro	Ser	Leu	Asn	Leu
		130					135				140				
Gly	Gln	Ala	Val	Met	Val	Tyr	Cys	Tyr	Gln	Leu	Ala	Ser	Leu	Ile	Gln
145					150					155					160
Ile	Ser	Gln	Pro	Pro	Val	Thr	Val	Ser	Asp	Glu	Asn	Gln	Leu	Ala	Ala
				165					170					175	
Leu	Arg	Val	Arg	Ala	Asp	Lys	Leu	Leu	Ala	Gln	Leu	Gly	Val	Ala	Asp
			180					185					190		
Asp	Gln	Lys	Met	Val	Asp	Trp	Leu	Gln	Gln	Arg	Leu	Gly	Arg	Leu	Glu
		195					200					205			
Gln	Arg	Asp	Thr	Val	Met	Leu	His	Arg	Leu	Leu	His	Asp	Ile	Glu	Lys
		210				215					220				
Lys	Leu	Ala	Glu												
225															

<210> 5968

<211> 160

<212> PRT

<213> Enterobacter cloacae

<400> 5968

Gly	Asn	Asn	Met	Lys	Tyr	Lys	Val	Leu	Val	Phe	Ala	Ala	Leu	Ala	Leu
1				5					10					15	
Met	Ala	Gly	Arg	Val	Ala	Gln	Ala	Glu	Gln	Ile	Gly	Ser	Val	Asp	Thr
			20					25					30		
Val	Phe	Lys	Met	Phe	Gly	Pro	Asp	His	Lys	Ile	Val	Val	Glu	Ala	Phe
		35					40					45			
Asp	Asp	Pro	Asp	Val	Lys	Asn	Val	Thr	Cys	Tyr	Val	Ser	Arg	Ala	Lys
	50					55					60				
Thr	Gly	Gly	Ile	Lys	Gly	Gly	Leu	Gly	Leu	Ala	Glu	Asp	Thr	Ser	Asp
65					70					75					80
Ala	Ala	Ile	Ser	Cys	Gln	Gln	Val	Gly	Pro	Val	Glu	Leu	Ser	Asp	Lys
				85					90					95	
Ile	Lys	Asn	Gly	Lys	Ala	Gln	Gly	Asp	Val	Val	Phe	Gln	Lys	Arg	Thr
			100					105					110		
Ser	Leu	Val	Phe	Lys	Lys	Leu	Gln	Val	Val	Arg	Phe	Tyr	Asp	Ala	Lys
		115					120					125			
Arg	Asn	Thr	Leu	Ala	Tyr	Leu	Ala	Tyr	Ser	Asp	Lys	Val	Val	Glu	Gly
		130				135					140				
Ser	Pro	Lys	Asn	Ala	Ile	Ser	Ala	Val	Pro	Ile	Met	Pro	Trp	His	
145					150					155					160

<210> 5969

<211> 288

<212> PRT

<213> Enterobacter cloacae

<400> 5969

Lys	Lys	Cys	Leu	Ser	Ala	Leu	Arg	Gln	Ile	Leu	Glu	Lys	Ser	Thr	Arg
1				5					10					15	
Leu	Ile	Met	Ser	Gly	Ser	Ser	Gln	Asp	Asp	Phe	Thr	Gly	Ala	Asp	Met
			20					25					30		
Phe	Arg	Arg	Leu	Arg	Asp	Ile	Ile	Lys	Arg	Gly	Val	Val	Lys	Glu	Val
		35					40					45			

Gln Met Gln Pro Pro Arg Val Arg Val Thr Phe Gly Gly Glu His Gln
 50 55 60
 Ser Gly Trp Leu Gln Trp Phe Thr Leu Ala Thr Ser Glu Arg Val Asp
 65 70 75 80
 Trp Ser Ala Pro Lys Val Gly Asp Pro Val Pro Pro Asn Ser Thr Ala
 85 90 95
 Ala Glu Arg Ala Leu Glu Ala Val Leu Ser His Val Gly Asp Leu Pro
 100 105 110
 Gly Asp Ile Arg Ile Ile Lys Asn Pro Asp Leu Cys Pro Val Asp Leu
 115 120 125
 Leu Pro Trp Leu Ala Trp Glu Tyr Ala Val Thr Tyr Trp Asn Ser Gly
 130 135 140
 Trp Ser Glu Gln Gln Lys Arg Gln Val Ile Lys Ala Ala Ala Trp Gln
 145 150 155 160
 Asn Lys His Arg Gly Thr Arg Gly Ala Val Glu Arg Ala Leu Leu Thr
 165 170 175
 Val Gly Tyr Glu Ser Gln Leu Gln Glu Trp Phe Glu Lys Val Pro Lys
 180 185 190
 Gly Asp Pro Tyr Thr Phe Gly Ile Lys Ile Tyr Leu Leu Lys Gln Met
 195 200 205
 Gly Met Asp Leu Asp Leu Leu Asn Thr Phe Ile Ala Gln Ile Phe Asp
 210 215 220
 Ala Lys Asn Cys Arg Ser Leu Leu Glu Ser Ile Asn Phe Glu Ala Glu
 225 230 235 240
 Ile Asp Gly Glu Phe Tyr Ile Ala Gly Thr Thr Ala Ala Asp Val Val
 245 250 255
 Val Glu Ile Pro Ala Glu Asp Glu Gly Gly Val Lys Val Asn Gly Ser
 260 265 270
 Leu Phe Ile Ser Gly Val Pro Thr Ala His Ile Thr Val Glu Ile
 275 280 285

<210> 5970

<211> 280

<212> PRT

<213> Enterobacter cloacae

<400> 5970

Gly Gly Ser Lys Ser Lys Arg Leu Pro Val Tyr Phe Gly Cys Thr Asp
 1 5 10 15
 Ser Ser Tyr His Ser Gly Asn Ile Glu Met Val Gln Lys Arg Thr Ala
 20 25 30
 Leu Lys Ser Ala Thr Ser Thr Pro Asp Asp Lys Ile Tyr Ala Ile Leu
 35 40 45
 Thr Asp Arg Gly Ala Glu Leu Glu Ala Ala Ala Leu Ala Thr Gly Val
 50 55 60
 Pro Val Lys Leu Thr Lys Phe Val Ile Gly Asp Ala Asn Gly Gln Glu
 65 70 75 80
 Glu Val Thr Pro Asp Pro Ala Arg Thr Ala Leu Ile His Glu Val Tyr
 85 90 95
 Arg Gly Asp Ile Asn Gly Ala Glu Ser Lys Gly Asn Gln Val Thr Phe
 100 105 110
 Thr Leu Asp Val Pro Pro Glu Thr Gly Gly Tyr Thr Ile Arg Glu Val
 115 120 125
 Gly Ile Leu Thr Glu Ala Gly Glu Leu Tyr Ser Val Ala Arg Ser Pro
 130 135 140
 Asp Ile Leu Lys Pro Thr Glu Ser Asn Gly Ala Val Ile Ser Ile Thr
 145 150 155 160
 Phe Lys Tyr Ile Leu Ala Val Ser Ser Thr Ser Thr Val Thr Val Val
 165 170 175
 Val Tyr Asn Asp Tyr Leu Thr Pro Asp Ala Ala Asp Ala Arg Tyr Leu
 180 185 190

Lys Val Asn Ala Asn Leu Lys Glu Ile Ala Asp Asn Gly Ala Ser Ser
 195 200 205
 Gln Gln Leu Ala Arg Lys Asn Ile Gly Ile Asp Gly Asp Ile Ala Tyr
 210 215 220
 Arg Asp Lys Glu Asn Ile Phe Thr Lys Lys Asn Thr Phe Gly Glu Ile
 225 230 235 240
 Leu Tyr Val Asn Lys Ser Ile Val Leu Ser Gly Asp Trp Ala Val Ser
 245 250 255
 Trp Ser Leu Ala Gly Ala Tyr Ile Glu Ala Tyr Leu Val His Ser Lys
 260 265 270
 Leu Pro Asp Arg Leu Phe Ser Thr
 275 280

<210> 5971

<211> 119

<212> PRT

<213> Enterobacter cloacae

<400> 5971

Arg Cys Arg Ala Ala Leu Leu Gln Ala Ile Leu Asp Gly Val Ala Gln
 1 5 10 15
 His Gly Pro Tyr Phe Val Ile Ala Pro Gly Leu Ala Met Pro His Gly
 20 25 30
 Arg Pro Glu Glu Gly Val Lys Lys Thr Gly Phe Ala Leu Val Thr Leu
 35 40 45
 Lys Thr Pro Leu Val Phe Asn His Glu Asp Asn Asp Pro Val Asp Ile
 50 55 60
 Leu Ile Thr Met Ala Ala Val Asp Ala Asn Thr His Gln Glu Val Gly
 65 70 75 80
 Ile Met Gln Ile Val Asn Leu Phe Asp Asp Glu Ala Asn Phe Asp Arg
 85 90 95
 Leu Arg Ala Cys Arg Thr Ala Gln Asp Val Leu Asp Leu Ile Asp Asn
 100 105 110
 Ala Thr Ala Ala Ala Val
 115

<210> 5972

<211> 221

<212> PRT

<213> Enterobacter cloacae

<400> 5972

Glu Glu Leu Lys Met Ser Leu Pro Met Leu Gln Val Ala Leu Asp Asn
 1 5 10 15
 Gln Thr Leu Ser His Ala Tyr Glu Thr Thr Arg Leu Ile Ala Glu Glu
 20 25 30
 Val Asp Ile Ile Glu Val Gly Thr Ile Leu Cys Val Gly Glu Gly Val
 35 40 45
 Arg Ala Val Arg Asp Leu Lys Ala Leu Tyr Pro His Lys Ile Val Leu
 50 55 60
 Ala Asp Ala Lys Ile Ala Asp Ala Gly Lys Ile Leu Ser Arg Met Cys
 65 70 75 80
 Phe Glu Ala Asn Ala Asp Trp Val Thr Val Ile Cys Cys Ala Asp Ile
 85 90 95
 Asn Thr Ala Lys Gly Ala Leu Asp Val Ala Lys Glu Phe Asn Gly Asp
 100 105 110
 Val Gln Ile Glu Leu Thr Gly Phe Trp Thr Trp Glu Gln Ala Gln Glu
 115 120 125
 Trp Arg Glu Ala Gly Ile Gln Gln Val Val Tyr His Arg Ser Arg Asp
 130 135 140
 Ala Gln Ala Ala Gly Val Ala Trp Gly Glu Ala Asp Ile Ser Ala Ile

145 150 155 160
 Lys Arg Leu Ala Asp Met Gly Phe Lys Val Thr Val Thr Gly Gly Leu
 165 170 175
 Ala Leu Glu Asp Leu Pro Leu Phe Lys Gly Ile Pro Ile His Val Phe
 180 185 190
 Ile Ala Gly Arg Ser Ile Arg Asp Ala Glu Ser Pro Val Glu Ala Ala
 195 200 205
 Arg Gln Phe Lys Arg Ser Ile Ala Gln Leu Trp Gly
 210 215 220

<210> 5973

<211> 290

<212> PRT

<213> Enterobacter cloacae

<400> 5973

Gly Ala Gly Met Leu Ser Lys Gln Val Pro Leu Gly Ile Tyr Glu Lys
 1 5 10 15
 Ala Leu Pro Ala Gly Glu Cys Trp Leu Glu Arg Leu Gln Leu Ala Lys
 20 25 30
 Gln Leu Gly Phe Asp Phe Val Glu Met Ser Leu Asp Glu Thr Asp Glu
 35 40 45
 Arg Leu Ala Arg Leu Asp Trp Ser Arg Asp Gln Arg Leu Ala Leu Val
 50 55 60
 Ser Ala Ile Ala Glu Thr Gly Val Arg Val Pro Ser Met Cys Leu Ser
 65 70 75 80
 Ala His Arg Arg Phe Pro Leu Gly Ser Glu Asp Asp Ala Val Arg Ala
 85 90 95
 Glu Gly Leu Glu Ile Met Arg Lys Ala Ile Arg Phe Ala Gln Asp Val
 100 105 110
 Gly Ile Arg Val Ile Gln Leu Ala Gly Tyr Asp Val Tyr Tyr Gln Glu
 115 120 125
 Ala Asn Asp Glu Thr Arg Arg Arg Phe Arg Asp Gly Leu Lys Glu Ser
 130 135 140
 Val Glu Met Ala Ser Arg Ala Gln Val Thr Leu Ala Met Glu Ile Met
 145 150 155 160
 Asp Tyr Pro Leu Met Asn Ser Ile Ser Lys Ala Leu Gly Tyr Ala His
 165 170 175
 Tyr Leu Asn Asn Pro Trp Phe Gln Leu Tyr Pro Asp Ile Gly Asn Leu
 180 185 190
 Ser Ala Trp Asp Asn Asp Val Gln Met Glu Leu Gln Ala Gly Ile Gly
 195 200 205
 His Ile Val Ala Val His Val Lys Asp Thr Arg Pro Gly Val Phe Lys
 210 215 220
 Asn Val Pro Phe Gly Thr Gly Val Val Asp Phe Glu Arg Cys Phe Gln
 225 230 235 240
 Thr Leu Lys Gln Thr Gly Tyr Cys Gly Pro Tyr Leu Ile Glu Met Trp
 245 250 255
 Ser Glu Thr Ala Asp Asp Pro Ala Ala Glu Val Ala Lys Ala Arg Asp
 260 265 270
 Trp Val Cys Glu Arg Met Ala Arg Ala Gly Leu Met Glu Ala Glu His
 275 280 285
 Ala
 290

<210> 5974

<211> 218

<212> PRT

<213> Enterobacter cloacae

<400> 5974

Thr Trp Cys Gln Ala Asp Gly Arg Val Lys Pro Gln Leu Ala Val Leu
 1 5 10 15
 Tyr Pro Cys Lys Pro Gly Leu Ser Leu Ser Arg Trp Pro Phe Val Ile
 20 25 30
 Ile His Pro Arg Gly Val Arg Met Phe Val Ala Glu Leu Ser Glu Ala
 35 40 45
 Phe Asn Gly Ile Ser Gln Arg Leu Ile Pro Gly Ala Val Leu Ala Ile
 50 55 60
 Asp Cys Ala Ala Ile Tyr Ser Phe Ala Pro Asn Ala Val Val Trp Gly
 65 70 75 80
 Phe Met Trp Gly Thr Ile Gly Gln Leu Ile Ala Val Gly Ile Leu Val
 85 90 95
 Gly Cys Gly Ser Ser Ile Leu Ile Ile Pro Gly Phe Ile Pro Met Phe
 100 105 110
 Phe Ser Asn Ala Thr Ile Gly Val Phe Ala Asn His Phe Gly Gly Trp
 115 120 125
 Arg Ala Ala Leu Lys Ile Cys Leu Val Met Gly Met Val Glu Ile Phe
 130 135 140
 Gly Cys Val Trp Ala Val Lys Leu Thr Gly Met Ser Ala Trp Met Gly
 145 150 155 160
 Met Ala Asp Trp Ser Ile Leu Ala Pro Pro Met Met Gln Gly Phe Ala
 165 170 175
 Ser Val Gly Leu Val Phe Met Ala Val Ile Ile Leu Ile Ala Leu Ala
 180 185 190
 Tyr Met Phe Phe Ala Gly Arg Ser Leu Arg Ala Glu Glu Asp Ala Glu
 195 200 205
 Lys Gln Thr Ala Glu Val Ser Ala His
 210 215

<210> 5975

<211> 106

<212> PRT

<213> Enterobacter cloacae

<400> 5975

Gly Val Ser Ile Met Thr Val Arg Ile Leu Ala Val Cys Gly Asn Gly
 1 5 10 15
 Gln Gly Ser Ser Met Ile Met Lys Met Lys Val Asp Gln Phe Leu Thr
 20 25 30
 Gln Ser Asn Ile Asp His Thr Val Asn Ser Cys Ala Val Gly Glu Tyr
 35 40 45
 Lys Ser Glu Leu Asn Gly Ala Asp Ile Ile Ile Ala Ser Thr His Ile
 50 55 60
 Ala Gly Glu Ile Ser Val Ser Gly Asn Lys Tyr Val Val Gly Val Arg
 65 70 75 80
 Asn Met Leu Ser Pro Ala Asp Phe Gly Pro Lys Leu Leu Glu Val Ile
 85 90 95
 Lys Glu His Phe Pro Gln Asp Val Lys
 100 105

<210> 5976

<211> 62

<212> PRT

<213> Enterobacter cloacae

<400> 5976

Gly Cys His Met Lys Leu Arg Asp Ser Leu Ala Glu Asn Asn Ser Ile
 1 5 10 15
 Leu Leu Gln Ala Glu Ala Ser Thr Trp Gln Glu Ala Val Lys Leu Ser
 20 25 30
 Val Asp Leu Leu Val Lys Ala Asp Val Val Glu Pro Arg Tyr Tyr Arg

35 40 45
 Arg Phe Trp Met Ala Trp Arg Ser Met Ala Leu Thr Leu
 50 55 60

<210> 5977
 <211> 190
 <212> PRT
 <213> Enterobacter cloacae

<400> 5977

Trp Arg Arg Asn Met Leu Lys Leu Lys Gln Gln Val Phe Glu Ala Asn
 1 5 10 15
 Met Asp Leu Pro Arg Tyr Gly Leu Val Thr Phe Thr Trp Gly Asn Val
 20 25 30
 Ser Ala Ile Asp Arg Glu Gln Gly Leu Val Val Ile Lys Pro Ser Gly
 35 40 45
 Val Ala Tyr Asp Ala Met Lys Ala Asp Asp Met Val Val Val Asp Leu
 50 55 60
 Glu Gly Leu Val Val Glu Gly Lys Trp Arg Pro Ser Ser Asp Thr Ala
 65 70 75 80
 Thr His Leu Ala Leu Tyr Gln Arg Tyr Pro Ser Leu Gly Gly Ile Val
 85 90 95
 His Thr His Ser Thr His Ala Thr Ala Trp Ala Gln Ala Gly Leu Ala
 100 105 110
 Ile Pro Ala Leu Gly Thr Thr His Ala Asp Tyr Phe Phe Gly Asp Ile
 115 120 125
 Pro Cys Thr Arg Ala Leu Thr Gln Thr Glu Val Glu Gly Glu Tyr Glu
 130 135 140
 Leu Asn Thr Gly Arg Val Ile Ile Glu Thr Leu Gly Glu Thr Glu Pro
 145 150 155 160
 Leu His Thr Pro Gly Ile Val Val Tyr Gln His Gly Pro Phe Ser Gly
 165 170 175
 Arg Asn Leu His Leu Gly Pro Gly Gly Pro Glu Leu Arg
 180 185 190

<210> 5978
 <211> 236
 <212> PRT
 <213> Enterobacter cloacae

<400> 5978

Lys Ser Ala Arg Tyr Ser Phe Asn Lys Arg Val Arg Thr Ala Ile Phe
 1 5 10 15
 Ser Tyr Met Asp Cys Leu Leu Ser Glu Arg Arg Met Pro Met Gln Asn
 20 25 30
 Lys Lys Thr Ile His Val Ala Val Val Asp Ser Cys Glu Phe Thr Met
 35 40 45
 Ile Gly Leu Gln Ser Leu Gly Lys Arg Glu Pro Asp Glu Lys His Asp
 50 55 60
 Val Ile Phe His Gly Phe Thr His Ile Glu Glu Leu Ala Met Ser Glu
 65 70 75 80
 Gln Leu Phe Asp Ile Ile Ile Tyr Asp Pro Leu Asn Thr Arg His Phe
 85 90 95
 Arg Val Thr Thr Asn Asp Asp Ile Leu Cys Ile Lys Gln Lys Gln Val
 100 105 110
 Thr Ala Lys Ile Tyr Ile Tyr Ser Leu Ser Ala Gly Tyr Leu Lys Phe
 115 120 125
 Lys His Val Asp Gly Val Ile Ser Lys Arg Val Ser Leu Gly Asp Ile
 130 135 140
 Lys Ala Leu Trp Gln Ile Leu Met Ser Gln Thr Pro Gln Glu Ser Gly
 145 150 155 160

Arg Tyr Asn Val Gly Met Thr Thr Arg Leu Arg Thr Pro Ala Arg Leu
 165 170 175
 Ser Ser Glu Glu Ala Ser Val Leu Arg Gly Tyr Ser Cys Asn Leu Lys
 180 185 190
 Thr Lys Gln Ile Ala Arg Gln Leu Gly Cys Asn Val Arg Leu Val Tyr
 195 200 205
 Phe Tyr Lys Asn Asn Ala Met Asn Lys Leu Lys Ala Val Arg Gly Pro
 210 215 220
 Ser Phe Tyr Gln Ser Ile Arg Trp Ile Leu Asn
 225 230 235

<210> 5979

<211> 254

<212> PRT

<213> Enterobacter cloacae

<400> 5979

Ile Lys Asn Leu Thr Val Cys Arg Leu Pro Phe Val Pro Val Ser Ala
 1 5 10 15
 Gly Thr Phe Phe Ser Phe Ser Glu Gly Cys Ser Met Tyr Thr Val Leu
 20 25 30
 Pro Ser Pro Leu Leu Gln Arg Ile Ser Gly Leu Arg Phe Gln Pro Leu
 35 40 45
 Val Asp Leu His Ser Gly Gln Val Phe Ala His Glu Val Leu Val Glu
 50 55 60
 Ile Arg Asn Val Asn Leu Glu Val Leu Phe Ala Ser Leu Pro Ser Arg
 65 70 75 80
 Ser Ala Leu Gln Ile Phe Phe Trp Gln Ala Asn Thr Leu Leu Gln Ile
 85 90 95
 Pro Ala Arg Asp Gly Tyr Trp Leu Asn Leu Pro Ala Glu His Leu Leu
 100 105 110
 Asp Glu Arg Ala Ile Arg Leu Leu Leu Ala Leu Arg His Gln Gln Arg
 115 120 125
 Leu Thr Ile Glu Ile Gln Asp Pro Leu Thr Ile Thr Arg Leu Ser Glu
 130 135 140
 Ala Glu Gln Arg His Leu His Ala Thr Leu Val Arg Leu Lys Glu Ala
 145 150 155 160
 Gly Trp Gln Ile Trp Leu Asp Asp Leu Thr Arg Glu Leu Ala Glu Ala
 165 170 175
 Phe Ala Arg Leu Ala Leu Pro Leu Asp Gly Val Lys Ile Asp Arg Ser
 180 185 190
 Ala Leu Arg Glu Arg Ala Pro Leu Ala Pro Phe Val Gln Glu Val Arg
 195 200 205
 Thr Gly Ile Ala Gln Ser Ile Leu Ile Glu Gly Ile Glu Asn Ser Arg
 210 215 220
 Asp Leu Ala Arg Ala Arg Thr Ser Gly Ala Gln Ser Gly Gln Gly Phe
 225 230 235 240
 Leu Trp Pro Glu Ser Arg Thr Asp Ala Arg Val Thr Leu
 245 250

<210> 5980

<211> 62

<212> PRT

<213> Enterobacter cloacae

<400> 5980

Gly Gly Asn Asp Ala Arg His Ile Lys Val Gly Val Ile Asn Gly Ala
 1 5 10 15
 Glu Gln Asp Val Ala Glu Val Ala Lys Lys Val Ala Lys Glu Lys Tyr
 20 25 30
 Gly Leu Asp Val Glu Leu Val Gly Phe Ser Gly Ser Leu Leu Pro Asn

35 40 45
 Asp Ala Thr Asn Gln Gly Glu Leu Asp Ala Asn Val Phe
 50 55 60

<210> 5981

<211> 185

<212> PRT

<213> Enterobacter cloacae

<400> 5981

His Arg Pro Phe Leu Ala Glu Asp Asn Lys Ala His Asn Tyr Lys Leu
 1 5 10 15
 Val Ala Val Ala Asn Thr Phe Val Phe Pro Met Ala Gly Tyr Ser Arg
 20 25 30
 Lys Ile Lys Ser Val Ser Glu Leu Lys Asp Gly Ala Thr Ile Ala Ile
 35 40 45
 Pro Asn Asp Pro Thr Asn Leu Gly Arg Ala Leu Leu Leu Leu Gln Lys
 50 55 60
 Glu Lys Leu Ile Thr Leu Lys Pro Asp Val Gly Leu Leu Pro Thr Ala
 65 70 75 80
 Leu Asp Ile Thr Ala Asn Pro Lys Asn Leu Gln Ile Met Glu Leu Glu
 85 90 95
 Gly Ala Gln Leu Pro Arg Val Leu Asp Asp Pro Lys Val Asp Val Ala
 100 105 110
 Ile Ile Ser Thr Thr Tyr Leu Gln Gln Thr Gly Leu Ser Pro Val His
 115 120 125
 Asp Ser Val Phe Ile Glu Asp Lys Asn Ser Pro Tyr Val Asn Ile Val
 130 135 140
 Val Thr Arg Glu Asp Asn Lys Asp Ala Glu Asn Val Lys Glu Phe Ile
 145 150 155 160
 Gln Ser Tyr Gln Ser Pro Glu Val Ala Lys Ala Ala Glu Thr Leu Phe
 165 170 175
 Asn Gly Gly Ala Val Pro Gly Trp
 180 185

<210> 5982

<211> 80

<212> PRT

<213> Enterobacter cloacae

<400> 5982

Thr Pro His Gly Val Thr Gly Cys Leu Pro Lys Leu Arg Pro Ser Pro
 1 5 10 15
 Pro Pro Cys Gly Trp Ser Thr Gly Phe Ile Ala Val Pro Arg Thr Val
 20 25 30
 Gly Arg Thr Pro Arg Gln Arg Ala Ala Pro Ala Leu Pro Arg Thr Arg
 35 40 45
 Ser Ile Cys Ser Ala Leu Pro Thr Ser Pro Arg Val Ala Arg Gln Ser
 50 55 60
 Ala Ser Thr Leu Arg Ile Ser Pro Glu Arg Arg Arg Arg Val Thr
 65 70 75 80

<210> 5983

<211> 79

<212> PRT

<213> Enterobacter cloacae

<400> 5983

Phe Ser Ser Arg Leu Val Lys Thr Lys Leu Leu Ala Gln Lys Leu Lys
 1 5 10 15
 Asp Met Ala Leu Glu Asp Val Leu Ile Ile Thr Gly Glu Leu Asp Glu

	20		25		30										
Asn	Leu	Phe	Leu	Ala	Ala	Arg	Asn	Leu	His	Lys	Val	Asp	Val	Arg	Asp
	35		40		45										
Ala	Thr	Gly	Ile	Asp	Pro	Val	Ser	Leu	Ile	Ala	Phe	Asp	Lys	Val	Val
	50		55		60										
Met	Thr	Ala	Asp	Ala	Val	Lys	Gln	Val	Glu	Glu	Met	Leu	Ala		
65			70						75						

<210> 5984

<211> 273

<212> PRT

<213> Enterobacter cloacae

<400> 5984

Arg	Pro	Lys	His	Glu	Ala	His	Tyr	Ala	Ala	Cys	Glu	Arg	Ser	Cys	Arg
1			5					10						15	
Ser	His	Pro	Glu	Ala	His	Gln	Pro	His	Tyr	Cys	Gly	Cys	Val	Arg	Ser
		20					25						30		
Leu	Arg	Leu	Trp	Arg	Leu	Ala	Met	Gly	Gln	Lys	Val	His	Pro	Asn	Gly
	35		40								45				
Ile	Arg	Leu	Gly	Ile	Val	Lys	Pro	Trp	Asn	Ser	Thr	Trp	Phe	Ala	Asn
	50		55							60					
Thr	Lys	Glu	Phe	Ala	Asp	Asn	Leu	Asp	Ser	Asp	Phe	Lys	Val	Arg	Gln
65			70					75						80	
Tyr	Leu	Thr	Lys	Glu	Leu	Ala	Lys	Ala	Ser	Val	Ser	Arg	Ile	Val	Ile
			85					90					95		
Glu	Arg	Pro	Ala	Lys	Ser	Ile	Arg	Val	Thr	Ile	His	Thr	Ala	Arg	Pro
		100					105						110		
Gly	Ile	Val	Ile	Gly	Lys	Lys	Gly	Glu	Asp	Val	Glu	Lys	Leu	Arg	Lys
	115					120						125			
Val	Val	Ala	Asp	Ile	Ala	Gly	Val	Pro	Ala	Gln	Ile	Asn	Ile	Ala	Glu
	130					135					140				
Val	Arg	Lys	Pro	Glu	Leu	Asp	Ala	Lys	Leu	Val	Ala	Asp	Ser	Ile	Thr
145				150				155						160	
Ser	Gln	Leu	Glu	Arg	Val	Met	Phe	Arg	Arg	Ala	Met	Lys	Arg	Ala	
			165				170						175		
Val	Gln	Asn	Ala	Met	Arg	Leu	Gly	Ala	Lys	Gly	Ile	Lys	Val	Glu	Val
		180					185						190		
Ser	Gly	Arg	Leu	Gly	Gly	Ala	Glu	Ile	Ala	Arg	Thr	Glu	Trp	Tyr	Arg
	195					200						205			
Glu	Gly	Arg	Val	Pro	Leu	His	Thr	Leu	Arg	Ala	Asp	Ile	Asp	Tyr	Asn
	210				215					220					
Thr	Ser	Glu	Ala	His	Thr	Thr	Tyr	Gly	Val	Ile	Gly	Val	Lys	Val	Trp
225				230					235					240	
Ile	Phe	Lys	Gly	Glu	Ile	Leu	Gly	Gly	Met	Ala	Ala	Val	Glu	Gln	Pro
			245					250						255	
Glu	Lys	Pro	Ala	Ala	Gln	Pro	Lys	Lys	Gln	Gln	Arg	Lys	Gly	Arg	Lys
		260					265						270		

<210> 5985

<211> 141

<212> PRT

<213> Enterobacter cloacae

<400> 5985

Gly	Ala	Ser	Leu	Met	Leu	Gln	Pro	Lys	Arg	Thr	Lys	Phe	Arg	Lys	Val
1			5					10						15	
His	Lys	Gly	Arg	Asn	Arg	Gly	Leu	Ala	Gln	Gly	Thr	Asp	Val	Ser	Phe
		20					25						30		

Gly Thr Phe Gly Leu Lys Ala Val Gly Arg Gly Arg Leu Thr Ala Arg
 35 40 45
 Gln Ile Glu Ala Ala Arg Arg Ala Met Thr Arg Ala Val Lys Arg Gln
 50 55 60
 Gly Lys Ile Trp Ile Arg Val Phe Pro Asp Lys Pro Ile Thr Glu Lys
 65 70 75 80
 Pro Leu Glu Val Arg Met Gly Lys Gly Lys Gly Asn Val Glu Tyr Trp
 85 90 95
 Val Ala Leu Ile Gln Pro Gly Lys Val Leu Tyr Glu Met Asp Gly Val
 100 105 110
 Pro Glu Glu Leu Ala Arg Glu Ala Phe Gly Leu Ala Ala Lys Leu
 115 120 125
 Pro Ile Lys Thr Thr Phe Val Thr Lys Thr Val Met
 130 135 140

<210> 5986

<211> 281

<212> PRT

<213> Enterobacter cloacae

<400> 5986

Val Ser Arg Arg Ser Asn Thr Met Ala Val Val Lys Cys Lys Pro Thr
 1 5 10 15
 Ser Pro Gly Arg Arg His Val Val Lys Val Val Asn Pro Glu Leu His
 20 25 30
 Lys Gly Lys Pro Phe Ala Pro Leu Leu Glu Lys Asn Ser Lys Ser Gly
 35 40 45
 Gly Arg Asn Asn Asn Gly Arg Ile Thr Thr Arg His Ile Gly Gly Gly
 50 55 60
 His Lys Gln Ala Tyr Arg Ile Val Asp Phe Lys Arg Asn Lys Asp Gly
 65 70 75 80
 Ile Pro Ala Val Val Glu Arg Leu Glu Tyr Asp Pro Asn Arg Ser Ala
 85 90 95
 Asn Ile Ala Leu Val Leu Tyr Lys Asp Gly Glu Arg Arg Tyr Ile Leu
 100 105 110
 Ala Pro Lys Gly Leu Lys Ala Gly Asp Gln Ile Gln Ser Gly Val Asp
 115 120 125
 Ala Ala Ile Lys Ala Gly Asn Thr Leu Pro Met Arg Asn Ile Pro Val
 130 135 140
 Gly Ser Thr Val His Asn Val Glu Met Lys Pro Gly Lys Gly Gly Gln
 145 150 155 160
 Leu Ala Arg Ser Ala Gly Thr Tyr Val Gln Ile Val Ala Arg Asp Gly
 165 170 175
 Ala Tyr Val Thr Leu Arg Leu Arg Ser Gly Glu Met Arg Lys Val Glu
 180 185 190
 Ala Asp Cys Arg Ala Thr Leu Gly Glu Val Gly Asn Ala Glu His Met
 195 200 205
 Leu Arg Val Leu Gly Lys Ala Gly Ala Ala Arg Trp Arg Gly Val Arg
 210 215 220
 Pro Thr Val Arg Gly Thr Ala Met Asn Pro Val Asp His Pro His Gly
 225 230 235 240
 Gly Gly Glu Gly Arg Asn Phe Gly Lys His Pro Val Thr Pro Trp Gly
 245 250 255
 Val Gln Thr Lys Gly Lys Lys Thr Arg Ser Asn Lys Arg Thr Asp Lys
 260 265 270
 Phe Ile Val Arg Arg Arg Ser Lys
 275 280

<210> 5987

<211> 114

<212> PRT

<213> *Enterobacter cloacae*

<400> 5987

Glu Glu Glu Met Glu Thr Leu Ala Gln His Arg His Ala Arg Ser Ser
 1 5 10 15
 Ala Gln Lys Val Arg Leu Val Ala Asp Leu Ile Arg Gly Lys Lys Val
 20 25 30
 Ser Gln Ala Leu Asp Ile Leu Thr Tyr Thr Asn Lys Lys Ala Ala Val
 35 40 45
 Leu Val Lys Lys Val Leu Glu Ser Ala Ile Ala Asn Ala Glu His Asn
 50 55 60
 Asp Gly Ala Asp Ile Asp Asp Leu Lys Val Ala Lys Ile Phe Val Asp
 65 70 75 80
 Glu Gly Pro Ser Met Lys Arg Ile Met Pro Arg Ala Lys Gly Arg Ala
 85 90 95
 Asp Arg Ile Leu Lys Arg Thr Ser His Ile Thr Val Val Val Ser Asp
 100 105 110
 Arg

<210> 5988

<211> 90

<212> PRT

<213> *Enterobacter cloacae*

<400> 5988

Asp Phe Thr Asp Ser Glu Gly Gly Cys Val Met Thr Asp Lys Ile Arg
 1 5 10 15
 Thr Leu Gln Gly Arg Val Val Ser Asp Lys Met Glu Lys Ser Ile Val
 20 25 30
 Val Ala Ile Glu Arg Phe Val Lys His Pro Ile Tyr Gly Lys Phe Ile
 35 40 45
 Lys Arg Thr Thr Lys Leu His Val His Asp Glu Asn Asn Glu Cys Gly
 50 55 60
 Ile Gly Asp Lys Val Glu Ile Arg Asp Ala Val Gln Val Asp Asp Tyr
 65 70 75 80
 Ser Trp Thr Leu Phe Ala Cys Lys Lys Lys
 85 90

<210> 5989

<211> 105

<212> PRT

<213> *Enterobacter cloacae*

<400> 5989

Gly Asp Ala Gly Met Ile Arg Glu Glu Arg Leu Leu Lys Val Leu Arg
 1 5 10 15
 Ala Pro His Val Ser Glu Lys Ala Ser Thr Ala Met Glu Lys Thr Asn
 20 25 30
 Thr Ile Val Leu Lys Val Ala Lys Asp Ala Thr Lys Ala Glu Ile Lys
 35 40 45
 Ala Ala Val Gln Lys Leu Phe Glu Val Glu Val Glu Val Val Asn Thr
 50 55 60
 Leu Val Val Lys Gly Lys Val Lys Arg His Gly Gln Arg Ile Gly Arg
 65 70 75 80
 Arg Ser Asp Trp Lys Lys Ala Tyr Val Thr Leu Lys Glu Gly Gln Asn
 85 90 95
 Leu Asp Phe Val Gly Gly Ala Glu
 100 105

<210> 5990

<211> 94
 <212> PRT
 <213> Enterobacter cloacae

<400> 5990

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Ala Met Pro Arg Ser Leu Lys Lys Gly Pro Phe Ile Asp Leu His Leu
1          5          10          15
Leu Lys Lys Val Glu Lys Ala Val Glu Ser Gly Asp Lys Lys Pro Leu
20          25          30
Arg Thr Trp Ser Arg Arg Ser Thr Ile Phe Pro Asn Met Ile Gly Leu
35          40          45
Thr Ile Ala Val His Asn Gly Arg Gln His Val Pro Val Phe Val Thr
50          55          60
Asp Glu Met Val Gly His Lys Leu Gly Glu Phe Ala Pro Thr Arg Thr
65          70          75          80
Tyr Arg Gly His Ala Ala Asp Lys Lys Ala Lys Lys Lys
85          90

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<210> 5991
 <211> 68
 <212> PRT
 <213> Enterobacter cloacae

<400> 5991

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Asp Gly Asp Val Met Lys Ala Lys Glu Leu Arg Glu Lys Ser Val Glu
1          5          10          15
Glu Leu Asn Ala Glu Leu Leu Asn Leu Leu Arg Glu Gln Phe Asn Leu
20          25          30
Arg Met Gln Ala Ala Ser Gly Gln Leu Gln Gln Thr His Leu Leu Lys
35          40          45
Gln Val Arg Arg Asn Val Ala Arg Val Lys Thr Leu Leu Thr Gln Lys
50          55          60
Ala Gly Ala
65

```

<210> 5992
 <211> 436
 <212> PRT
 <213> Enterobacter cloacae

<400> 5992

```

Thr Leu Leu Leu Pro Thr Arg Arg Leu Lys Leu Tyr Gly Glu Ser Phe
1          5          10          15
Ser Asp Ala His Leu Asn Val Leu Leu Thr Lys Leu Glu Lys Ala Ala
20          25          30
Thr Asn Ile Thr Glu Lys Arg Lys Ser Gly Trp Asp Glu Lys Asp Val
35          40          45
Val Leu Ile Thr Tyr Ala Asp Gln Phe Ser Thr Lys Gly Glu Gln Ala
50          55          60
Leu Pro Val Phe Thr Arg Phe Tyr Asn Glu Trp Leu Ser Arg Thr Phe
65          70          75          80
Ser His Val His Leu Leu Pro Phe Tyr Pro Trp Ser Ser Asp Asp Gly
85          90          95
Phe Ser Val Ile Asp Tyr His Glu Val Ala Pro Glu Thr Gly Thr Trp
100          105          110
Arg Asp Val Ala Glu Leu Lys His Ser Ala Ser Leu Met Phe Asp Phe
115          120          125
Val Cys Asn His Met Ser Ala Lys Ser Glu Trp Phe Ala Asn Tyr Leu
130          135          140
Ala Gln Lys Pro Gly Tyr Glu Asp Phe Phe Ile Ser Val Asp Pro Glu
145          150          155          160

```

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Thr Asp Leu Ser Ala Val Thr Arg Pro Arg Ala Leu Pro Leu Leu Thr
      165      170      175
Pro Phe Thr Leu His Asp Gly Ser Val Arg His Leu Trp Thr Thr Phe
      180      185      190
Ser Asp Asp Gln Ile Asp Leu Asn Phe Ala Ser Pro Gln Val Leu Ile
      195      200      205
Ala Met Val Asp Val Leu Leu His Tyr Leu Met Glu Gly Ala Arg Tyr
      210      215      220
Ile Arg Leu Asp Ala Val Gly Phe Met Trp Lys Ile Pro Gly Thr Thr
      225      230      235      240
Cys Ile His Leu Glu Gln Thr His Cys Leu Ile Gln Leu Phe Arg Ala
      245      250      255
Ile Thr Asp Ala Val Ala Pro Gly Thr Val Ile Ile Thr Glu Thr Asn
      260      265      270
Val Pro His Lys Asp Asn Val Ser Tyr Phe Gly Asp Gly Glu Asn Glu
      275      280      285
Ala His Met Val Tyr Gln Phe Ser Leu Pro Pro Leu Val Leu His Ala
      290      295      300
Val His Arg Gln Asp Val Lys Thr Leu Cys Gln Trp Ala Gly Ser Leu
      305      310      315      320
Ala Leu Pro Ser Thr His Thr Thr Trp Phe Asn Phe Leu Ala Ser His
      325      330      335
Asp Gly Ile Gly Leu Asn Pro Leu Arg Gly Ile Leu Pro Glu Ser Glu
      340      345      350
Ile Leu Ser Leu Val Glu Lys Leu Gln His Glu Cys Ala Leu Val Asn
      355      360      365
Trp Lys Asn Asn Pro Asp Gly Thr Arg Ser Pro Tyr Glu Ile Asn Val
      370      375      380
Thr Tyr Leu Asp Ala Leu Ser Leu Arg Asp Ser Ser Tyr Asp Glu Arg
      385      390      395      400
Ile Ala Arg Phe Ile Leu Ser His Ala Val Leu Leu Ser Phe Pro Gly
      405      410      415
Val Pro Ala Val Tyr Ile Gln Ser Ile Leu Gly Ser Arg Asn Asp Tyr
      420      425      430
Glu Gly Val
      435

```

<210> 5993

<211> 125

<212> PRT

<213> Enterobacter cloacae

<220>

<221> UNSURE

<222> (32)

<400> 5993

```

Arg Leu Gly Tyr Asn Arg Ala Ile Asn Arg Lys Lys Tyr Thr Ala Arg
1      5      10      15
His Val Asp Leu Glu Leu Asn Asn Lys Lys Ser Ile Arg Tyr Gln Xaa
      20      25      30
Tyr Ser Arg Leu Ser Glu Phe Ile Ala Ile Arg Arg Gly Glu Ser Ala
      35      40      45
Phe His Pro Asp Ser Gln Ala Ile Phe Asp Ala Ile Gly Glu His Ile
      50      55      60
Leu Lys Ile Val Arg Val Ala Glu Asn Gly Glu Arg Met Thr Ala Leu
      65      70      75      80
Phe Asn Phe Ser Asn Lys Met Gln Thr Ile Tyr Gly Gln Thr Leu Phe
      85      90      95
Gly Arg Glu Leu Leu Ser Gly His Asp Ile Ser Gly Thr Glu Leu Asn
      100      105      110

```

Leu Asn Pro Trp Gln Val Met Trp Ile Lys Glu Asn
 115 120 125

<210> 5994

<211> 442

<212> PRT

<213> Enterobacter cloacae

<400> 5994

Cys	Gly	Leu	Lys	Lys	Thr	Lys	Lys	Asp	Pro	Lys	Met	Lys	Met	Pro	Lys
1			5					10						15	
Ile	Val	Leu	Leu	Ser	Ala	Leu	Val	Ser	Cys	Ala	Leu	Leu	Ser	Gly	Cys
		20						25				30			
Lys	Asp	Asp	Lys	Ala	Ser	Gln	Val	Thr	Ile	Glu	Phe	Met	His	Ser	Ser
		35					40					45			
Val	Glu	Gln	Glu	Arg	Gln	Ala	Val	Ile	Thr	Lys	Leu	Ile	Glu	Lys	Phe
	50					55					60				
Glu	Lys	Glu	Asn	Pro	Thr	Ile	Thr	Val	Lys	Gln	Val	Pro	Val	Glu	Glu
65					70					75					80
Asp	Ala	Tyr	Asn	Thr	Lys	Val	Ile	Thr	Leu	Ala	Arg	Thr	Gly	Ala	Leu
			85						90					95	
Pro	Glu	Val	Ile	Glu	Val	Ser	His	Asp	Tyr	Ala	Lys	Val	Met	Asp	Lys
			100					105					110		
Glu	Gln	Leu	Leu	Asp	Arg	Asp	Ala	Ile	Gly	Asn	Ala	Ile	Lys	Ala	Val
		115					120					125			
Gly	Glu	Asp	Thr	Phe	Tyr	Asp	Gly	Ile	Leu	Arg	Val	Val	Arg	Thr	Glu
	130					135					140				
Asp	Gly	Lys	Ala	Trp	Thr	Gly	Val	Pro	Val	Ser	Ala	Trp	Leu	Ser	Gly
145					150					155					160
Val	Trp	Tyr	His	Lys	Asp	Ala	Leu	Ala	Ala	Gly	Ile	Glu	Glu	Pro	
				165				170					175		
His	Asn	Trp	Glu	Gln	Leu	Leu	Lys	Ala	Ser	Gln	Ala	Leu	Asn	Asp	Pro
			180					185					190		
Ala	Lys	Lys	His	Tyr	Gly	Ile	Ala	Leu	Pro	Thr	Ala	Glu	Ser	Val	Met
		195					200					205			
Thr	Glu	Gln	Ala	Phe	Ser	Gln	Phe	Ala	Leu	Ser	Gly	Gly	Ala	Asn	Val
	210					215					220				
Phe	Asp	Ala	Asn	Gly	Asn	Val	Lys	Ile	Asp	Thr	Pro	Glu	Met	Ser	Lys
225					230					235					240
Ala	Leu	Ala	Phe	Tyr	Arg	Ala	Leu	Ala	Ala	Asn	Thr	Met	Pro	Gly	Ser
			245					250						255	
Asn	Asp	Val	Met	Glu	Ile	Lys	Asp	Ala	Phe	Met	Asn	Gly	Cys	Ala	Pro
		260					265						270		
Met	Ala	Val	Tyr	Ser	Thr	Tyr	Ile	Leu	Pro	Ala	Val	Tyr	Lys	Asp	Gly
		275					280					285			
Asn	Pro	Ala	Asn	Leu	Gly	Phe	Val	Val	Pro	Thr	Glu	Lys	Ser	Ser	Ala
		290				295					300				
Val	Tyr	Gly	Met	Ile	Thr	Ser	Leu	Thr	Ile	Thr	Thr	Gly	Gln	Thr	Glu
305					310					315					320
Glu	Glu	Thr	Gln	Ala	Ala	Glu	Lys	Phe	Val	Thr	Trp	Met	Glu	Gln	Ala
			325						330					335	
Gln	Asn	Ala	Ser	Asp	Trp	Val	Met	Met	Ser	Pro	Gly	Ala	Ala	Leu	Pro
			340					345					350		
Leu	Asn	Lys	Leu	Val	Val	Gly	Thr	Glu	Ser	Trp	Lys	Asn	Asn	Asp	Val
		355					360					365			
Ile	Lys	Ala	Phe	Gly	Gln	Leu	Pro	Tyr	Glu	Leu	Ile	Ala	Gln	Phe	Pro
	370					375					380				
Asn	Val	Gln	Val	Phe	Gly	Ala	Val	Gly	Asp	Lys	Asn	Phe	Thr	Arg	Met
385					390				395						400
Gly	Asp	Val	Thr	Gly	Ser	Gly	Ile	Ile	Ser	Ser	Met	Val	His	Asn	Val
				405					410					415	

Thr Val Gly Gln Lys Asp Leu Asn Ala Thr Leu Ser Asn Ser Gln Lys
 420 425 430
 Lys Leu Thr Asp Leu Ile Ser Gln Arg
 435 440

<210> 5995

<211> 301

<212> PRT

<213> Enterobacter cloacae

<400> 5995

Glu Arg Phe Ala Lys Gly Ile Met Lys Thr Leu Phe Ser Gly Arg Ser
 1 5 10 15
 Asp Met Pro Phe Ala Met Leu Leu Leu Ala Pro Ser Leu Ile Leu Leu
 20 25 30
 Gly Gly Leu Val Ala Trp Pro Met Ile Ser Asn Ile Glu Ile Ser Phe
 35 40 45
 Leu Arg Leu Pro Leu Asn Pro Arg Ile Asp Ala Val Phe Val Gly Leu
 50 55 60
 Asp Asn Tyr Ile Arg Ile Leu Gly Asp Ala Ala Phe Trp His Ser Leu
 65 70 75 80
 Trp Met Thr Phe Trp Tyr Thr Ala Leu Val Val Leu Gly Ser Thr Gly
 85 90 95
 Leu Gly Leu Ala Val Ala Ile Phe Phe Asn Arg Glu Phe Arg Met Arg
 100 105 110
 Lys Thr Ala Arg Ser Leu Val Ile Leu Ser Tyr Val Thr Pro Ser Ile
 115 120 125
 Ser Leu Val Phe Ala Trp Lys Tyr Met Phe Asn Asn Gly Tyr Gly Ile
 130 135 140
 Val Asn Tyr Leu Gly Val Asp Leu Leu His Leu Tyr Asp Gln Ala Pro
 145 150 155 160
 Leu Trp Phe Asp Asn Pro Gly Ser Ser Phe Val Leu Val Val Leu Phe
 165 170 175
 Ala Ile Trp Arg Tyr Phe Pro Tyr Ala Phe Ile Ser Phe Leu Ala Ile
 180 185 190
 Leu Gln Thr Ile Asp Lys Ser Leu Tyr Glu Ala Ala Glu Met Asp Gly
 195 200 205
 Ala Asn Ala Trp Gln Arg Phe Arg Ile Val Thr Leu Pro Ala Ile Met
 210 215 220
 Pro Val Leu Ala Thr Val Val Thr Leu Arg Thr Ile Trp Met Phe Tyr
 225 230 235 240
 Met Phe Ala Asp Val Tyr Leu Leu Thr Thr Lys Val Asp Ile Leu Gly
 245 250 255
 Val Tyr Leu Tyr Lys Thr Ala Phe Ala Phe Asn Asp Leu Gly Lys Ala
 260 265 270
 Ala Ala Ile Ser Val Val Leu Phe Val Ile Ile Phe Ala Val Ile Leu
 275 280 285
 Leu Thr Arg Lys Arg Val Asn Leu Asn Gly Asn Lys
 290 295 300

<210> 5996

<211> 215

<212> PRT

<213> Enterobacter cloacae

<220>

<221> UNSURE

<222> (175)

<220>

<221> UNSURE

<222> (176)

<220>

<221> UNSURE

<222> (182)

<220>

<221> UNSURE

<222> (203)

<400> 5996

```

Thr Ser Met Ala Thr Asn Lys Arg Val Leu Gly Arg Ile Gly Phe Tyr
1      5      10      15
Leu Gly Leu Ala Val Phe Leu Ile Ile Thr Leu Phe Pro Phe Phe Val
20      25      30
Met Leu Met Thr Ser Phe Lys Ser Ala Lys Glu Ala Ile Ser Leu His
35      40      45
Pro Thr Ile Leu Pro Gln Glu Trp Thr Leu Gln His Tyr Ile Asp Ile
50      55      60
Phe Asn Pro Leu Ile Phe Pro Phe Val Asp Tyr Phe Arg Asn Ser Met
65      70      75      80
Val Val Ser Leu Thr Ser Ser Val Ile Ala Val Phe Leu Gly Thr Leu
85      90      95
Gly Ala Tyr Ala Leu Ser Lys Leu Arg Phe Lys Gly Arg Thr Thr Ile
100     105     110
Asn Ala Ser Phe Tyr Thr Val Tyr Met Phe Ser Gly Ile Leu Leu Val
115     120     125
Val Pro Leu Phe Lys Ile Ile Thr Ala Leu Gly Ile Tyr Asp Thr Glu
130     135     140
Leu Ala Leu Ile Ile Thr Met Val Thr Gln Thr Leu Pro Thr Ala Val
145     150     155     160
Phe Met Leu Arg Asn Tyr Phe Asp Thr Ile Pro Asp Glu Ile Xaa Xaa
165     170     175
Ala Pro Met Lys Asp Xaa Leu Lys Arg Leu Gln Ile Ile Phe Arg Ile
180     185     190
Thr Leu Pro Leu Gly Asn Ser Gly Leu Val Xaa Val Phe Val His Cys
195     200     205
Phe Met Val Gly Val Glu
210      215

```

<210> 5997

<211> 153

<212> PRT

<213> Enterobacter cloacae

<400> 5997

```

Ser Phe Glu Ala Leu Lys Glu Tyr Tyr Pro Gln Ala Lys Lys Glu Asp
1      5      10      15
Trp Arg Leu Trp Gln Ala Gly Gln Arg Val Gln Ile Ile Lys Arg Asp
20      25      30
Pro Lys Glu Gly Gly Val Leu Arg Met Ser Thr Glu Val Val Ser Asp
35      40      45
Lys Asp Gly Thr Ile Ala Val Leu Leu Gly Ala Ser Pro Gly Ala Ser
50      55      60
Thr Ala Ala Pro Ile Met Leu His Leu Met Glu Lys Val Phe Lys Asp
65      70      75      80
Lys Val Ser Ser Pro Glu Trp Gln Ala Lys Leu Lys Thr Ile Ile Pro
85      90      95
Ser Tyr Gly Thr Lys Leu Asn Gly Asn Val Glu Ala Thr Glu Gln Glu
100     105     110
Leu Glu Tyr Thr Ser Arg Val Leu Gln Leu Gln Tyr Val Lys Pro Gln

```


115 120 125
 Ala Ala Asp Ala Ala Pro Lys Ala Glu Leu Lys Pro Gln Ala Glu Ser
 130 135 140
 Lys Pro Val Ala Asp Ile Ala Leu
 145 150

<210> 5998
 <211> 124
 <212> PRT
 <213> Enterobacter cloacae

<400> 5998
 Cys Thr Ala Phe Val Phe Phe Tyr Trp Cys Leu Met Leu Trp Trp Ser
 1 5 10 15
 Arg Cys Gly Asp Arg Val Ile Leu Arg Val Asn Tyr Cys Tyr Leu Ser
 20 25 30
 Val Lys Gly Gly Asp Met Val Arg Glu Lys Leu Lys Thr Pro Glu Gly
 35 40 45
 Arg Lys Phe Leu Leu Ala Leu Leu Val Val Phe Met Ile Ala Ala Ala
 50 55 60
 Cys Val Gly Arg Ala Thr Ile Val Gly Val Ile Glu Gln Tyr Asn Ile
 65 70 75 80
 Pro Leu Ser Ala Trp Thr Thr Ser Met Phe Val Leu Gln Ser Ala Met
 85 90 95
 Ile Phe Val Tyr Ser Leu Val Phe Thr Val Leu Leu Ala Ile Pro Leu
 100 105 110
 Gly Ile Phe Phe Leu Gly Gly Arg Glu Lys His
 115 120

<210> 5999
 <211> 137
 <212> PRT
 <213> Enterobacter cloacae

<220>
 <221> UNSURE
 <222> (137)

<400> 5999
 Ile Pro Pro Gly Leu Lys Gly Glu Phe Ile Met Ser Leu Glu Ile Asn
 1 5 10 15
 Gln Ile Ala Leu His Gln Leu Ile Lys Arg Asp Glu Gln Thr Leu Glu
 20 25 30
 Val Val Leu Arg Asp Ser Leu Leu Glu Pro Thr Pro Thr Val Val Glu
 35 40 45
 Met Met Ala Glu Leu His Arg Val Tyr Ser Ala Lys Asn Lys Ala Tyr
 50 55 60
 Gly Leu Phe Ser Glu Glu Ser Glu Leu Ala Asp Ser Leu Arg Leu Gln
 65 70 75 80
 Arg Gln Gly Glu Glu Asp Phe Leu Ala Phe Ser Arg Ala Ala Thr Gly
 85 90 95
 Arg Leu Arg Asp Glu Leu Ala Lys Tyr Pro Phe Ala Asp Gly Gly Ile
 100 105 110
 Val Leu Phe Cys His Tyr Arg Cys Pro Ala Val Val Phe Pro Gln Glu
 115 120 125
 Leu Ala Ile Arg Glu Val Asn Arg Xaa
 130 135

<210> 6000
 <211> 625
 <212> PRT


```

Ile Gly Arg Val Leu Thr Ala Leu Arg Asp Ala Gly Lys Leu Asp Asn
465                      470          475                      480
Thr Val Val Ile Ile Thr Ala Gly His Gly Val Pro Leu Gly Asp Glu
                      485          490                      495
Ala Lys Gly Met Glu Trp Ser Arg Pro Asn Leu His Val Pro Leu Val
                      500          505          510
Ile His Trp Pro Gly Thr Pro Ala Gln Arg Ile Asn Met Leu Thr Asp
                      515          520          525
His Lys Asp Val Met Thr Thr Leu Met Gln Arg Leu Leu His Val Ser
                      530          535          540
Thr Pro Ala Ile Glu Tyr Ser Gln Gly Gln Asp Leu Phe Ser Ala Thr
545                      550          555                      560
Arg Arg His Asn Trp Val Thr Ala Ala Gly Gly Asn Thr Leu Val Val
                      565          570          575
Thr Thr Pro Thr Leu Ser Leu Val Leu Asn Ser Asn Gly Asn Tyr Gln
                      580          585          590
Thr Tyr Ser Leu Glu Gly Glu Lys Leu Lys Asp Gln Lys Pro Gln Leu
                      595          600          605
Ser Leu Leu Leu Gln Val Leu Thr Asp Glu Lys Arg Phe Ile Ala Asn
610                      615          620

```

625

<210> 6001

<211> 173

<212> PRT

<213> Enterobacter cloacae

<400> 6001

```

Gln Lys Gly Met Thr Val Lys Asn Ala Pro Lys Phe Ala Ile Ala Leu
1                      5                      10                      15
Ile Ala Ala Ala Cys Ala Ser Ser Ser Ala Phe Ala Ser Glu Thr Gln
                      20                      25                      30
Lys Glu Gln Pro Leu Glu Lys Val Ala Pro Tyr Pro Gln Ala Asp Lys
                      35                      40                      45
Gly Met Lys Arg Gln Val Ile Gln Leu Pro Ala Gln Gln Asp Glu Ala
50                      55                      60
Asn Phe Lys Val Glu Leu Ile Gly Gln Thr Leu Glu Val Asp Cys
65                      70                      75                      80
Asn Gln His Arg Leu Gly Gly Gln Leu Glu Ser Lys Thr Leu Glu Gly
                      85                      90                      95
Trp Gly Tyr Asp Tyr Tyr Val Phe Asp Lys Val Thr Ser Pro Val Ser
                      100          105          110
Thr Met Met Ala Cys Pro Asp Gly Lys Lys Glu Lys Lys Phe Ile Thr
                      115          120          125
Ala Tyr Leu Gly Asp Asn Ser Leu Leu Arg Tyr Asn Ser Lys Leu Pro
130                      135          140
Ile Val Val Tyr Thr Pro Glu Asn Val Asp Val Lys Tyr Arg Val Trp
145                      150          155                      160
Lys Ala Asp Glu Thr Val Gly Gln Ala Val Val Arg
                      165          170

```

<210> 6002

<211> 77

<212> PRT

<213> Enterobacter cloacae

<400> 6002

```

Phe Met Pro Gln His Ser Arg Tyr Ser Asp Glu His Val Glu Gln Leu
1                      5                      10                      15
Leu Ser Glu Leu Val Asn Val Leu Glu Lys His Lys Thr Pro Thr Asp

```

		20						25					30				
Leu	Ser	Leu	Met	Val	Leu	Gly	Asn	Met	Val	Thr	Asn	Leu	Ile	Asn	Thr		
		35					40					45					
Ser	Val	Ala	Pro	Ala	Gln	Arg	Gln	Ala	Ile	Ala	Lys	Ser	Phe	Ala	Gln		
	50				55						60						
Ala	Leu	Gln	Ser	Ser	Val	Ser	Asp	Asp	Gln	Ala	His						
65					70					75							

<210> 6003

<211> 486

<212> PRT

<213> Enterobacter cloacae

<400> 6003

Ala	Lys	Thr	Asp	Pro	Tyr	Arg	Ser	Arg	Cys	Arg	Ile	Cys	Pro	Gly	Asp		
1				5				10					15				
Gln	Arg	Arg	Val	Arg	Phe	Lys	Ile	Ser	Leu	Thr	Thr	Arg	Leu	Ser	Leu		
			20				25					30					
Ile	Phe	Ser	Ala	Val	Met	Leu	Thr	Val	Trp	Trp	Leu	Ser	Ser	Phe	Ile		
	35				40						45						
Leu	Ile	Ser	Thr	Leu	Asn	Gly	Tyr	Phe	Asp	Asn	Gln	Asp	Arg	Asp	Phe		
	50				55					60							
Leu	Thr	Gly	Lys	Leu	Gln	Leu	Thr	Glu	Glu	Phe	Leu	Lys	Thr	Glu	Thr		
65				70				75						80			
Phe	Arg	Asn	Lys	Thr	Asp	Ile	Lys	Ser	Leu	Ser	Glu	Lys	Ile	Asn	Asp		
			85				90						95				
Ala	Met	Val	Gly	His	Asn	Gly	Leu	Phe	Ile	Ser	Ile	Lys	Asn	Met	Glu		
			100				105						110				
Asn	Glu	Lys	Ile	Val	Glu	Leu	Tyr	Ala	Lys	Asn	Ser	Val	Val	Pro	Ala		
	115						120					125					
Val	Leu	Leu	Asn	Lys	Ser	Gly	Asp	Ile	Leu	Asp	Tyr	Met	Ile	Gln	Thr		
	130					135					140						
Glu	Glu	Asn	Asn	Thr	Val	Tyr	Arg	Ser	Ile	Ser	Arg	Arg	Val	Ala	Val		
145				150						155				160			
Thr	Pro	Glu	Gln	Gly	Lys	Ser	Lys	His	Val	Ile	Ile	Thr	Val	Ala	Thr		
			165				170							175			
Asp	Thr	Gly	Tyr	His	Thr	Leu	Phe	Met	Asp	Lys	Leu	Ser	Thr	Trp	Leu		
	180						185						190				
Phe	Trp	Phe	Asn	Ile	Gly	Leu	Val	Phe	Ile	Ser	Val	Phe	Leu	Gly	Trp		
	195					200						205					
Leu	Thr	Thr	Arg	Ile	Gly	Leu	Lys	Pro	Leu	Arg	Glu	Met	Thr	Ser	Leu		
	210				215						220						
Ala	Ser	Ser	Met	Thr	Val	His	Ser	Leu	Asp	Gln	Arg	Leu	Asn	Pro	Asp		
225				230						235				240			
Leu	Ala	Pro	Pro	Glu	Ile	Ser	Glu	Thr	Met	Gln	Glu	Phe	Asn	Asn	Met		
			245						250					255			
Phe	Asp	Arg	Leu	Glu	Gly	Ala	Phe	Arg	Lys	Leu	Ser	Asp	Phe	Ser	Ser		
	260						265						270				
Asp	Ile	Ala	His	Glu	Leu	Arg	Thr	Pro	Val	Ser	Asn	Leu	Met	Met	Gln		
	275						280					285					
Thr	Gln	Phe	Ala	Leu	Ala	Lys	Glu	Arg	Asp	Val	Ser	His	Tyr	Arg	Glu		
	290					295						300					
Ile	Leu	Phe	Ala	Asn	Leu	Glu	Glu	Leu	Lys	Arg	Leu	Ser	Arg	Met	Thr		
305				310						315				320			
Ser	Asp	Met	Leu	Phe	Leu	Ala	Arg	Ser	Glu	His	Gly	Leu	Leu	Arg	Leu		
			325						330					335			
Asp	Lys	His	Asp	Val	Asp	Leu	Ala	Ala	Glu	Leu	Asn	Glu	Leu	Arg	Glu		
		340					345						350				
Leu	Phe	Glu	Pro	Leu	Ala	Asp	Glu	Thr	Gly	Lys	Thr	Ile	Thr	Val	Glu		
	355					360						365					
Gly	Glu	Gly	Val	Val	Ala	Gly	Asp	Ser	Asp	Met	Leu	Arg	Arg	Ala	Phe		

370	375	380
Ser Asn Leu Leu Ser Asn Ala Ile Lys Tyr Ser Pro Asp Asn Thr Cys		
385	390	395
Thr Ala Ile His Leu Glu Arg Asp Arg Asp Cys Val Asn Val Met Ile		400
	405	410
Thr Asn Thr Met Ser Gly Gln Val Pro Ala Asn Leu Glu Arg Leu Phe		415
	420	425
Asp Arg Phe Tyr Arg Ala Asp Ser Ser Arg Phe Tyr Asn Thr Glu Gly		430
	435	440
Ala Gly Leu Gly Leu Ser Ile Thr Arg Ser Ile Ile His Ala His Gly		445
	450	455
Gly Glu Leu Ser Ala Glu Gln Gln Gly Arg Glu Ile Val Phe Lys Val		460
465	470	475
Arg Leu Leu Met Asp		480
	485	

<210> 6004

<211> 244

<212> PRT

<213> Enterobacter cloacae

<220>

<221> UNSURE

<222> (99)

<400> 6004

Arg Lys Arg Gly Ser Gly Thr Pro Glu Val Lys Thr Ile His Val Ile		
1	5	10
Glu Met Val Ile Glu Glu Thr Asp Val Gly Ile Ser Trp Ile Val Arg		15
	20	25
Leu Cys Ala Leu Phe Thr Thr Leu Gly Ala Leu Phe Leu Tyr Thr Asn		30
	35	40
Lys Arg Val Leu Ser Cys Leu Leu Met Thr Met Ser Gly Gly Val Ala		45
	50	55
Leu Ala Thr Leu Ala Trp Gly Gly His Ala Val Met His Asp Gly Leu		60
65	70	75
His Tyr Tyr Leu His Leu Leu Ser Asp Leu Thr His Leu Gly Ala Ala		80
	85	90
Gly Ala Xaa Asp Arg Gly Phe Ala Leu Val Ala Phe Ala Ile Leu Leu		95
	100	105
Met Arg Arg Asn Glu His Asn Ala Gln Ser Val Ile Val Ile Ser Asp		110
	115	120
Ser Leu Ala Lys Phe Ala Thr Ala Gly Thr Val Ile Val Val Ala Leu		125
	130	135
Ile Leu Thr Ala Leu Val Asn Tyr Leu Tyr Ile Ala Glu Gly Asn Leu		140
145	150	155
Thr Pro Leu Phe Asn Ser Ser Trp Gly Arg Ile Leu Leu Ala Lys Thr		160
	165	170
Ala Leu Phe Val Leu Met Leu Leu Leu Ala Ala Asn Arg Phe His		175
	180	185
Leu Gly Pro Arg Leu Glu Val Met Val Arg Glu Gly Asn Tyr Asp Arg		190
	195	200
Ser Val Ala Leu Met Arg Asn Ser Ile Leu Thr Glu Phe Val Val Ala		205
	210	215
Ile Ile Ile Leu Gly Ala Val Ala Trp Leu Gly Met Leu Ala Pro Ser		220
225	230	235
Gln Val Ser		240

<210> 6005

<211> 237

<212> PRT

<213> Enterobacter cloacae

<400> 6005

```

Asp Phe Tyr Phe His Ile Ser Glu Leu Thr Met Gln Arg Ile Leu Ile
1           5           10           15
Val Glu Asp Glu Gln Lys Thr Gly Arg Tyr Leu Gln Gln Gly Leu Val
          20           25           30
Glu Glu Gly Tyr Gln Ala Asp Leu Phe Asn Asn Gly Arg Asp Gly Leu
          35           40           45
Gly Ala Ala Ser Lys Gly Gln Tyr Asp Leu Ile Ile Leu Asp Val Met
          50           55           60
Leu Pro Phe Leu Asp Gly Trp Gln Ile Ile Ser Ala Leu Arg Glu Ser
65           70           75           80
Gly His Glu Glu Pro Val Leu Phe Leu Thr Ala Lys Asp Asn Val Arg
          85           90           95
Asp Lys Val Lys Gly Leu Glu Leu Gly Ala Asp Asp Tyr Leu Ile Lys
          100          105          110
Pro Phe Asp Phe Thr Glu Leu Val Ala Arg Val Arg Thr Leu Leu Arg
          115          120          125
Arg Ala Arg Ser Gln Ala Ala Thr Val Cys Thr Ile Ala Asp Met Thr
          130          135          140
Val Asp Met Val Arg Arg Thr Val Ile Arg Ser Gly Lys Lys Ile His
145          150          155          160
Leu Thr Gly Lys Glu Tyr Val Leu Leu Glu Leu Leu Leu Gln Arg Thr
          165          170          175
Gly Glu Val Leu Pro Arg Ser Leu Ile Ser Ser Leu Val Trp Asn Met
          180          185          190
Asn Phe Asp Ser Asp Thr Asn Val Ile Asp Val Ala Val Arg Arg Leu
          195          200          205
Arg Ser Lys Ile Asp Asp Asp Phe Glu Pro Lys Leu Ile His Thr Val
          210          215          220
Arg Gly Ala Gly Tyr Val Leu Glu Ile Arg Glu Glu
225          230          235

```

<210> 6006

<211> 138

<212> PRT

<213> Enterobacter cloacae

<400> 6006

```

Trp Thr Leu Ser Met Ser Asn Thr Leu Gln Pro Arg Arg Ala Arg Ala
1           5           10           15
Ser Tyr Ser Met Asp Phe Lys Leu Ala Leu Val Glu Lys Ser Tyr Gln
          20           25           30
Pro Gly Ala Cys Val Ala Arg Leu Ala Arg Asp Asn Gly Ile Asn Asp
          35           40           45
Asn Leu Leu Phe Thr Trp Arg Gln Arg Tyr Arg His Leu Leu Pro Asp
          50           55           60
Glu Ile Gln Arg Ser Ile Arg Glu Gln Asp Ser Val Ile Pro Val Val
65           70           75           80
Leu Pro Asp Met Ala Leu Ser His His Ala Glu Pro His Tyr Glu Pro
          85           90           95
Ala Ala Pro Ala Cys Arg Glu Ala Met Thr Cys Glu Val Thr Val Gly
          100          105          110
Gly Ala Ser Leu Arg Leu Ser Gly Asp Leu Ser Pro Ala Leu Leu Lys
          115          120          125
Thr Leu Ile Arg Glu Thr Leu Glu Lys Pro
          130          135

```

<210> 6007

<211> 410

<212> PRT

<213> Enterobacter cloacae

<400> 6007

```

Arg Arg Tyr Pro Gln Val Lys Leu Asn Ala Arg Gln Val Asp Ala Ala
1      5      10      15
Lys Pro Lys Asp Lys Pro Tyr Lys Leu Ala Asp Gly Gly Gly Leu Tyr
20      25      30
Leu Leu Ile Lys Pro Asn Gly Gly Lys Tyr Trp Arg Leu Lys Tyr Arg
35      40      45
Val Ala Gly Lys Glu Lys Leu Ala Leu Gly Val Tyr Pro Glu Val
50      55      60
Thr Leu Ala Asp Ala Arg Ala Lys Arg Glu Glu Ala Lys Arg Gly Ile
65      70      75      80
Ala Gly Gly Ile Asp Pro Met Glu Ala Lys Arg Glu Glu Lys Ile Ala
85      90      95
Arg Glu Ile Gln Leu Asn Asn Thr Phe Lys Asp Ile Ala Leu Glu Trp
100     105     110
His Ser Ser Lys Leu Lys Lys Trp Ser Ala Gly Tyr Ala Ser Asp Ile
115     120     125
Leu Glu Ala Phe Asn Lys Asp Val Phe Pro Tyr Ile Gly Lys Lys Pro
130     135     140
Ile Ala Glu Ile Lys Pro Leu Glu Leu Leu Asn Val Leu Arg Arg Ile
145     150     155     160
Glu Gly Arg Gly Ala Thr Glu Lys Ala Arg Lys Val Arg Gln Arg Cys
165     170     175
Gly Glu Val Phe Arg Tyr Ala Ile Val Thr Gly Arg Ala Glu Tyr Asn
180     185     190
Pro Ala Pro Asp Leu Thr Ser Ala Met Gln Gly His Glu Ser Asn His
195     200     205
Phe Pro Phe Leu Thr Pro Lys Gln Leu Pro Asp Phe Phe Asn Ala Leu
210     215     220
Ser Gly Tyr Ser Gly Ser Glu Leu Val Val Leu Ala Ala Arg Leu Leu
225     230     235     240
Ile Ile Thr Gly Leu Arg Pro Gly Glu Leu Arg Gly Ala Phe Trp Asp
245     250     255
Glu Ile Asn Ile Ser Lys Ala Val Trp Glu Ile Pro Ala Ser Arg Met
260     265     270
Lys Met Arg Arg Pro His Val Val Pro Leu Ser Arg Gln Ala Leu Thr
275     280     285
Leu Ile Gly Gln Ile Gln Glu Leu Thr Gly Asn Tyr Pro Leu Val Phe
290     295     300
Pro Gly Arg Asn Asp Pro Arg Lys Thr Met Ser Glu Ala Ser Ile Asn
305     310     315     320
Gln Val Phe Lys Arg Ile Gly Tyr Asn Gly Lys Val Thr Gly His Gly
325     330     335
Phe Arg His Thr Met Ser Thr Ile Leu His Glu Gln Gly Tyr Asn Thr
340     345     350
Ala Trp Ile Glu Thr Gln Leu Ala His Val Asp Lys Asn Ser Ile Arg
355     360     365
Gly Thr Tyr Asn His Ala Gln Tyr Leu Asp Gly Arg Arg Glu Met Leu
370     375     380
Gln Trp Tyr Ala Asp Tyr Met Glu Ala Leu Glu Asn Gly Glu Asn Val
385     390     395     400
Val His Gly Thr Phe Gly Lys Ser Ala
405

```

<210> 6008

<211> 409

<212> PRT

<213> Enterobacter cloacae

<400> 6008

```

Thr Arg Phe Gly Leu Lys Trp Arg Ser Phe Pro Cys Gly Glu Lys Asn
1      5      10      15
Gly Leu Met Lys Lys Leu Gly Asp Tyr Val Glu Tyr His Ser Gln Glu
20      25      30
Ile Leu Leu Ala Asn Glu Gln Asp Leu Leu Glu Ala Arg Arg Asn Gly
35      40      45
Leu Ser Glu Ala Met Leu Asp Arg Leu Ala Leu Thr Pro Ala Arg Leu
50      55      60
Lys Gly Ile Ala Asp Asp Val Arg Gln Val Cys Asn Leu Ala Asp Pro
65      70      75      80
Val Gly Gln Val Ile Asp Gly Gly Val Leu Asp Ser Gly Leu Arg Leu
85      90      95
Glu Arg Arg Arg Val Pro Leu Gly Val Ile Gly Val Ile Tyr Glu Ala
100     105     110
Arg Pro Asn Val Thr Val Asp Val Ala Ser Leu Cys Leu Lys Thr Gly
115     120     125
Asn Ala Ala Ile Leu Arg Gly Gly Lys Glu Thr Trp Arg Thr Asn Ala
130     135     140
Ala Thr Val Asn Val Ile Gln Gln Ala Leu Glu Glu Cys Gly Leu Pro
145     150     155     160
Ala Gly Ala Val Gln Ala Ile Glu Ser Pro Asp Arg Ala Leu Val Asn
165     170     175
Glu Met Leu Arg Met Asp Lys Tyr Ile Asp Met Leu Ile Pro Arg Gly
180     185     190
Gly Ala Gly Leu His Lys Leu Cys Arg Glu Gln Ser Thr Ile Pro Val
195     200     205
Ile Thr Gly Gly Ile Gly Val Cys His Ile Val Val Asp Asp Thr Ala
210     215     220
Glu Val Glu Pro Ala Leu Lys Ile Ile Val Asn Ala Lys Thr Gln Arg
225     230     235     240
Pro Ser Thr Cys Asn Thr Val Glu Thr Leu Leu Val His Gln Gly Ile
245     250     255
Ala Ser Thr Phe Leu Pro Ala Leu Ser Lys Gln Met Ala Glu Ser Gly
260     265     270
Val Thr Leu His Ala Asp Glu Lys Ala Phe Ala Leu Leu Lys Asp Gly
275     280     285
Pro Ala Lys Val Val Pro Val Asn Ala Glu Gln Tyr Asp Asp Glu Tyr
290     295     300
Leu Ser Leu Asp Leu Asn Val Lys Val Val Ala Asp Leu Asp Asp Ala
305     310     315     320
Ile Ala His Ile Arg Glu His Gly Thr Gln His Ser Asp Ala Ile Leu
325     330     335
Thr Arg Thr Leu Arg Asn Ala Asp Arg Phe Val Asn Glu Val Asp Ser
340     345     350
Ser Ala Val Tyr Val Asn Ala Ser Thr Arg Phe Thr Asp Gly Gly Gln
355     360     365
Phe Gly Leu Gly Ala Glu Val Ala Val Ser Thr Gln Lys Leu His Ala
370     375     380
Arg Gly Pro Met Gly Leu Glu Ala Leu Thr Thr Tyr Lys Trp Ile Gly
385     390     395     400
Phe Gly Asp Asp Thr Ile Arg Ala
405

```

<210> 6009

<211> 133

<212> PRT

<213> Enterobacter cloacae

<400> 6009

Arg Gln Met Ser Met Gln Asp Pro Ile Ala Asp Met Leu Thr Arg Ile
 1 5 10 15
 Arg Asn Gly Gln Ala Ala Asn Lys Val Ala Val Thr Met Pro Ser Ala
 20 25 30
 Lys Leu Lys Val Ala Ile Ala Asn Val Leu Lys Glu Glu Gly Phe Ile
 35 40 45
 Glu Asp Phe Lys Val Glu Gly Asp Thr Lys Pro Glu Leu Glu Leu Thr
 50 55 60
 Leu Lys Tyr Phe Gln Gly Lys Ala Val Val Glu Ser Ile Gln Arg Val
 65 70 75 80
 Ser Arg Pro Gly Leu Arg Ile Tyr Lys Lys Lys Asp Glu Leu Pro Lys
 85 90 95
 Val Met Ala Gly Leu Gly Ile Ala Val Val Ser Thr Ser Lys Gly Val
 100 105 110
 Met Thr Asp Arg Ala Ala Arg Gln Ala Gly Leu Gly Gly Glu Ile Ile
 115 120 125
 Cys Tyr Val Ala
 130

<210> 6010

<211> 182

<212> PRT

<213> Enterobacter cloacae

<400> 6010

Ser Glu Glu Arg Met Ser Arg Val Ala Lys Ala Pro Val Val Ile Pro
 1 5 10 15
 Ala Gly Val Asp Val Lys Ile Asp Gly Gln Val Ile Thr Ile Lys Gly
 20 25 30
 Lys Asn Gly Glu Leu Thr Arg Thr Leu Asn Lys Ala Val Glu Val Lys
 35 40 45
 His Ala Asp Asn Ala Leu Thr Phe Gly Pro Arg Asp Gly Phe Val Asp
 50 55 60
 Gly Trp Ala Gln Ala Gly Thr Ala Arg Ala Leu Leu Asn Ser Met Val
 65 70 75 80
 Val Gly Val Thr Glu Gly Phe Thr Lys Lys Leu Gln Leu Val Gly Val
 85 90 95
 Gly Tyr Arg Ala Ala Ile Lys Gly Asn Ala Val Gly Leu Ser Leu Gly
 100 105 110
 Phe Ser His Pro Val Glu His Pro Leu Pro Ala Gly Ile Thr Ala Glu
 115 120 125
 Cys Pro Thr Gln Thr Glu Ile Val Leu Lys Gly Ala Asp Lys Gln Leu
 130 135 140
 Ile Gly Gln Val Ala Ala Asp Leu Arg Ala Tyr Arg Arg Pro Glu Pro
 145 150 155 160
 Tyr Lys Gly Lys Gly Val Arg Tyr Ala Asp Glu Val Val Arg Thr Lys
 165 170 175
 Glu Ala Lys Lys Lys
 180

<210> 6011

<211> 121

<212> PRT

<213> Enterobacter cloacae

<400> 6011

Gly Asn Thr Met Asp Lys Lys Ser Ala Arg Ile Arg Arg Ala Thr Arg
 1 5 10 15
 Ala Arg Arg Lys Leu Lys Glu Leu Gly Ala Thr Arg Leu Val Val His
 20 25 30

Arg Thr Pro Arg His Ile Tyr Ala Gln Val Ile Ala Pro Asn Gly Ser
 35 40 45
 Glu Val Leu Val Ala Ala Ser Thr Val Glu Lys Ala Ile Ser Glu Gln
 50 55 60
 Leu Lys Tyr Thr Gly Asn Lys Asp Ala Ala Ala Val Gly Lys Ala
 65 70 75 80
 Val Ala Glu Arg Ala Leu Glu Lys Gly Ile Ser Asn Val Ser Phe Asp
 85 90 95
 Arg Ser Gly Phe Gln Tyr His Gly Arg Val Gln Ala Leu Ala Asp Ala
 100 105 110
 Ala Arg Glu Ala Gly Leu Gln Phe
 115 120

<210> 6012

<211> 309

<212> PRT

<213> Enterobacter cloacae

<400> 6012

Gln Met Ala Lys Gln Pro Gly Leu Asp Phe Gln Ser Ala Lys Gly Gly
 1 5 10 15
 Phe Gly Glu Leu Lys Arg Arg Leu Leu Phe Val Ile Gly Ala Leu Ile
 20 25 30
 Val Phe Arg Ile Gly Ser Phe Ile Pro Ile Pro Gly Ile Asp Ala Ala
 35 40 45
 Val Leu Ala Lys Leu Leu Glu Gln Gln Arg Gly Thr Ile Ile Glu Met
 50 55 60
 Phe Asn Met Phe Ser Gly Gly Ala Leu Ser Arg Ala Ser Ile Phe Ala
 65 70 75 80
 Leu Gly Ile Met Pro Tyr Ile Ser Ala Ser Ile Ile Ile Gln Leu Leu
 85 90 95
 Thr Val Val His Pro Ala Leu Ala Glu Leu Lys Lys Glu Gly Glu Ser
 100 105 110
 Gly Arg Arg Lys Ile Ser Gln Tyr Thr Arg Tyr Gly Thr Leu Val Leu
 115 120 125
 Ala Ile Phe Gln Ser Ile Gly Ile Ala Thr Gly Leu Pro Asn Met Pro
 130 135 140
 Gly Met Gln Gly Leu Val Leu Asn Pro Gly Phe Ala Phe Tyr Phe Thr
 145 150 155 160
 Ala Val Val Ser Leu Val Thr Gly Thr Met Phe Leu Met Trp Leu Gly
 165 170 175
 Glu Gln Ile Thr Glu Arg Gly Ile Gly Asn Gly Ile Ser Ile Ile Ile
 180 185 190
 Phe Ala Gly Ile Val Ala Gly Leu Pro Pro Ala Ile Ala His Thr Ile
 195 200 205
 Glu Gln Ala Arg Gln Gly Asp Leu His Phe Leu Leu Leu Leu Val
 210 215 220
 Ala Val Leu Val Phe Ala Val Thr Phe Phe Val Val Phe Val Glu Arg
 225 230 235 240
 Gly Gln Arg Arg Ile Val Val Asn Tyr Ala Lys Arg Gln Gln Gly Arg
 245 250 255
 Arg Val Tyr Ala Ala Gln Ser Thr His Leu Pro Leu Lys Val Asn Met
 260 265 270
 Ala Gly Val Ile Pro Ala Ile Phe Ala Ser Ser Ile Ile Leu Phe Pro
 275 280 285
 Ala Thr Ile Ala Ser Trp Phe Gly Gly Gly Leu His His Thr Gly Arg
 290 295 300
 Lys Ser Asp Ala
 305

<210> 6013

<211> 170

<212> PRT

<213> Enterobacter cloacae

<400> 6013

```

Arg Cys Lys Met Ala His Ile Glu Lys Gln Ala Gly Glu Leu Gln Glu
1      5      10      15
Lys Leu Ile Ala Val Asn Arg Val Ser Lys Thr Val Lys Gly Gly Arg
      20      25      30
Ile Phe Ser Phe Thr Ala Leu Thr Val Val Gly Asp Gly Asn Gly Arg
      35      40      45
Val Gly Phe Gly Tyr Gly Lys Ala Arg Glu Val Pro Ala Ala Ile Gln
      50      55      60
Lys Ala Met Glu Lys Ala Arg Arg Asn Met Ile Asn Val Ala Leu Asn
65      70      75      80
Asn Gly Thr Leu Gln His Pro Val Lys Gly Val His Thr Gly Ser Arg
      85      90      95
Val Phe Met Gln Pro Ala Ser Glu Gly Thr Gly Ile Ile Ala Gly Gly
      100      105      110
Ala Met Arg Ala Val Leu Glu Val Ala Gly Val His Asn Val Leu Ala
      115      120      125
Lys Ala Tyr Gly Ser Thr Asn Pro Ile Asn Val Val Arg Ala Thr Ile
      130      135      140
Asp Gly Leu Glu Asn Met Asn Ser Pro Glu Met Val Ala Ala Lys Arg
145      150      155      160
Gly Lys Ser Val Glu Glu Ile Leu Gly
      165      170

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<210> 6014

<211> 62

<212> PRT

<213> Enterobacter cloacae

<400> 6014

```

Leu Thr Met Ala Lys Thr Ile Lys Ile Thr Gln Thr Arg Ser Ala Ile
1      5      10      15
Gly Arg Leu Pro Lys His Lys Ala Thr Leu Leu Gly Leu Gly Leu Arg
      20      25      30
Arg Ile Gly His Thr Val Glu Arg Glu Asp Thr Pro Ala Val Arg Gly
      35      40      45
Met Val Asn Ala Val Tyr Phe Met Val Lys Val Glu Glu
      50      55      60

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<210> 6015

<211> 146

<212> PRT

<213> Enterobacter cloacae

<400> 6015

```

Glu Met Arg Leu Asn Thr Leu Ser Pro Ala Glu Gly Ser Lys Lys Ala
1      5      10      15
Gly Lys Arg Leu Gly Arg Gly Ile Gly Ser Gly Leu Gly Lys Thr Gly
      20      25      30
Gly Arg Gly His Lys Gly Gln Asn Ser Arg Ser Gly Gly Gly Val Arg
      35      40      45
Arg Gly Phe Glu Gly Gly Gln Met Pro Leu Tyr Arg Arg Leu Pro Lys
      50      55      60
Phe Gly Phe Thr Ser Arg Lys Ala Ala Ile Thr Ala Glu Ile Arg Leu
65      70      75      80
Ser Asp Leu Ala Lys Val Glu Gly Gly Val Val Asp Leu Asn Thr Leu
      85      90      95

```

Lys Ala Ala Asn Ile Ile Gly Ile Gln Ile Glu Phe Ala Lys Val Ile
 100 105 110
 Leu Ala Gly Glu Val Ser Thr Pro Val Thr Val Arg Gly Leu Arg Val
 115 120 125
 Thr Lys Gly Ala Arg Ala Ala Ile Glu Ala Ala Gly Gly Lys Ile Glu
 130 135 140
 Glu
 145

<210> 6016

<211> 91

<212> PRT

<213> Enterobacter cloacae

<400> 6016

Phe Gln Leu Ile Asn Lys Leu Ser Ala Ala Ala Val Ser Trp Arg Arg
 1 5 10 15
 His Gly Val Ile Met Ala Gln Ile Ile Phe Asn Arg Glu Trp Val Val
 20 25 30
 Glu Ala Glu Leu Thr Ala Leu Thr Gly Leu Ser Glu Arg Gln Ile Lys
 35 40 45
 Ala Leu Arg Ser Gly Pro Trp Leu Glu Gly Ile His Phe Lys Arg Gln
 50 55 60
 Ser Met Lys Gly Gly Glu Thr Lys Arg Gly Leu Leu Trp Tyr Asn Tyr
 65 70 75 80
 Pro Arg Ile Asn Gln Leu Val Gln Glu Leu
 85 90

<210> 6017

<211> 463

<212> PRT

<213> Enterobacter cloacae

<400> 6017

Arg Met Leu Pro Ala Arg Asn Gly Gly Gly Ile His Glu Arg Ala Ala
 1 5 10 15
 Arg Val Gly Ala Gln Arg Arg Thr Pro Lys Arg Met Leu Ala Trp Ile
 20 25 30
 Arg Lys Thr Met Leu Val Ser Thr Gln Trp Pro Glu Ile Lys Lys Gln
 35 40 45
 Leu Thr Lys Trp Leu Asp Thr Pro Pro Ala Lys Arg Glu Pro Val Asp
 50 55 60
 Ile Asn Thr Glu Thr Lys Thr Asp Ser Gly Ala Thr Leu Gly Gly Gly
 65 70 75 80
 Asn Gln Thr Asp Arg Ser Pro Asp Leu Val His Asn Leu Ala Thr Leu
 85 90 95
 Arg Ile Glu Thr Ala Leu Gly Ile Ile Ala Ala Ala Met Asp Phe Asp
 100 105 110
 Ile Tyr Ser Ile Pro Val Glu Ile Met Arg Arg Ala Lys Glu Leu Glu
 115 120 125
 Ser Ser Gly Gly Asp Pro Arg Phe Ser Ala Trp Trp Thr Lys Leu Arg
 130 135 140
 Val Thr Pro Gly Ile Leu Asp Tyr Ser Arg Ala Ala Ile Ile Ala Leu
 145 150 155 160
 Ile Lys Ser Ala Pro Glu Asp Leu Tyr Leu Arg Pro Val Asp Leu Arg
 165 170 175
 Ala Tyr Ile Asn Arg Glu Leu Val Glu Ser Asp His Ala Lys Pro Asp
 180 185 190
 Pro Lys Thr Val Ala Thr Ala Cys Gly Thr Ala Thr Thr Glu Gln Asn
 195 200 205
 Asp Asp Gln Thr Gln Pro Ala Glu Lys Asp Lys Ala Asp Leu Pro Ala

```

      210                      215                      220
Val Cys Pro Gly Arg Ala Ala Gln Leu Asp Lys Glu Leu Asn Glu Ala
225                      230                      235                      240
Phe Glu Lys Arg Pro Ser Val Glu Pro Gln Ala Ser Asp Gln Pro Gln
      245                      250                      255
Ile Glu Asn Leu Gly Gly Gly Val Phe Ser Val Glu Ala Leu Ile Asn
      260                      265                      270
Pro Pro Ser Ser Asn Glu Val Glu Lys Gln Glu Val Pro Pro Ala Leu
      275                      280                      285
Thr Asp Arg Glu Ile Glu Ile Ala His Ala Leu Asn Asp Leu Ile Ala
      290                      295                      300
Gly Arg Thr Arg Ile Met Asp Lys Glu Glu Ala Glu Gly Val Val Thr
      305                      310                      315                      320
Thr Thr Gly His Ser Val Ser His Val Ile Pro Leu Leu Leu Ala Asp
      325                      330                      335
Ile Ser Thr Ala Glu Phe Cys Leu Ser Pro Asp Phe Ser Asp Glu Glu
      340                      345                      350
Ile His Asp Val Ala Thr Thr Ile Leu Asp Ser Trp Ser Asp Asp Leu
      355                      360                      365
Cys Val Arg Gln Lys Ile Ala Leu Asp Ala Ile Val Glu Tyr Arg Arg
      370                      375                      380
Pro Ala Pro Pro Lys Ala Val Val Leu Asp Pro Pro Phe Ile Thr Ala
      385                      390                      395                      400
Lys Pro Lys Lys Ala Ala Glu Pro Val Pro Glu Thr His Thr Ala Ala
      405                      410                      415
Pro Leu Asn Tyr Arg Gln Gln Leu Ile Leu Ala Ala Met Gln Gly Met
      420                      425                      430
Cys Ala Asn Pro Ser Tyr Arg Cys Asp Phe Glu Asp Leu Pro Ala Met
      435                      440                      445
Ala Ile Glu Leu Ala Asp Ser Leu Ile Asn Gln Asp Gly Ile
      450                      455                      460

```

<210> 6018

<211> 464

<212> PRT

<213> Enterobacter cloacae

<400> 6018

```

Arg Tyr Thr Leu Gln Thr Pro Val Asn Glu Arg Arg Arg Asn Gln Thr
1                      5                      10                      15
Arg Ser Pro Leu Val Gln Leu Pro Ser His Lys Ser Val Ser Ala Gly
      20                      25                      30
Ala Val Met Ser Phe Pro Thr Gly Val Glu Ile His Asn Gly Lys Ile
      35                      40                      45
Arg Ile Ser Phe Thr Tyr Arg Gly Lys Arg Cys Arg Glu Val Leu Lys
      50                      55                      60
Gly Trp Val Asn Thr Pro Ala Asn Ile Ile Lys Ala Gly Asn Leu Arg
      65                      70                      75                      80
Ala Leu Ile Val Ser Glu Ile Gln Met Gly Glu Phe Asp Tyr Ser Arg
      85                      90                      95
Arg Phe Pro Glu Ser Lys Ala Val Gln Lys Phe Thr Ser Thr Arg Val
      100                      105                      110
Ala Tyr Thr Trp Gly Asp Leu Asn Glu Leu Trp Leu Ala Ala Lys Glu
      115                      120                      125
Glu Asp Val Ser Arg Asn Thr Met Thr Arg Leu Leu Ala Gln Leu Arg
      130                      135                      140
Thr Ile Asn Arg Ile Val Gly Glu Asn Thr Leu Ile Val Asp Ile Thr
      145                      150                      155                      160
His Ser Asp Met Leu Arg Tyr Arg Lys Glu Leu Leu Arg Gly Glu Ser
      165                      170                      175
Phe Tyr Ala Glu Gly Asn Lys Arg Lys Lys Thr Gly Arg Ser Val Asn

```

```
<210> 6019
<211> 174
<212> PRT
<213> Enterobacter cloacae
```

His	Phe	Asp	Trp	Phe	Ala	Ser	His	Ser	Arg	Gly	Glu	Asn	Val	Cys	Arg
1				5					10					15	
Ile	Leu	Leu	Thr	Gly	Trp	Phe	Met	Ser	Ala	Asn	Thr	Glu	Ala	Gln	Gly
			20					25					30		
Ser	Gly	Arg	Gly	Leu	Glu	Ala	Met	Lys	Trp	Val	Val	Val	Ala	Val	Leu
		35					40					45			
Leu	Ile	Val	Ala	Ile	Val	Gly	Asn	Tyr	Leu	Tyr	Arg	Asp	Met	Met	Leu
	50					55					60				
Pro	Leu	Arg	Ala	Leu	Ala	Val	Val	Ile	Leu	Ile	Ala	Ala	Ala	Gly	Gly
65				70						75				80	
Val	Ala	Leu	Leu	Thr	Thr	Lys	Gly	Lys	Ala	Thr	Val	Ala	Phe	Ala	Arg
				85					90					95	
Glu	Ala	Arg	Thr	Glu	Val	Arg	Lys	Val	Ile	Trp	Pro	Thr	Arg	Gln	Glu
			100					105					110		
Thr	Leu	His	Thr	Thr	Leu	Ile	Val	Ala	Ala	Val	Asn	Arg	Cys	Asn	Val
		115					120					125			
Thr	Asp	Pro	Val	Gly	Thr	Gly	Trp	Tyr	Ser	Gly	Ser	Pro	Gly	Ile	Leu
	130					135					140				
Tyr	His	Trp	Pro	Glu	Val	Leu	Arg	Cys	Leu	Lys	Pro	Leu	Lys	Ser	Ala

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<210> 6020
<211> 407
<212> PRT
<213> Enterobacter cloacae
```

Tyr	His	Arg	Phe	Ile	Arg	Val	Leu	Glu	Gly	Gln	Ser	Met	Ser	Lys	Glu
1				5					10					15	
Lys	Phe	Glu	Arg	Thr	Lys	Pro	His	Val	Asn	Val	Gly	Thr	Ile	Gly	His
			20					25					30		
Val	Asp	His	Gly	Lys	Thr	Thr	Leu	Thr	Ala	Ala	Ile	Thr	Thr	Val	Leu
		35					40					45			
Ala	Lys	Thr	Tyr	Gly	Gly	Ala	Ala	Arg	Ala	Phe	Asp	Gln	Ile	Asp	Asn
	50					55				60					
Ala	Pro	Glu	Glu	Lys	Ala	Arg	Gly	Ile	Thr	Ile	Asn	Thr	Ser	His	Val
65				70						75				80	
Glu	Tyr	Asp	Thr	Pro	Thr	Arg	His	Tyr	Ala	His	Val	Asp	Cys	Pro	Gly
			85						90					95	
His	Ala	Asp	Tyr	Val	Lys	Asn	Met	Ile	Thr	Gly	Ala	Ala	Gln	Met	Asp
			100					105					110		
Gly	Ala	Ile	Leu	Val	Val	Ala	Ala	Thr	Asp	Gly	Pro	Met	Pro	Gln	Thr
		115					120					125			
Arg	Glu	His	Ile	Leu	Leu	Gly	Arg	Gln	Val	Gly	Val	Pro	Tyr	Ile	Ile
	130					135					140				
Val	Phe	Leu	Asn	Lys	Cys	Asp	Met	Val	Asp	Asp	Glu	Glu	Leu	Leu	Glu
145				150					155					160	
Leu	Val	Glu	Met	Glu	Val	Arg	Glu	Leu	Leu	Ser	Gln	Tyr	Asn	Phe	Pro
			165						170					175	
Gly	Asp	Asp	Thr	Pro	Ile	Val	Arg	Gly	Ser	Ala	Leu	Lys	Ala	Leu	Glu
			180					185				190			
Gly	Glu	Ala	Glu	Trp	Glu	Glu	Lys	Ile	Ile	Glu	Leu	Ala	Gly	Tyr	Leu
		195					200					205			
Asp	Ser	Tyr	Ile	Pro	Glu	Pro	Glu	Arg	Ala	Ile	Asp	Lys	Pro	Phe	Leu
	210					215					220				
Leu	Pro	Ile	Glu	Asp	Val	Phe	Ser	Ile	Ser	Gly	Arg	Gly	Thr	Val	Val
225				230						235				240	
Thr	Gly	Arg	Val	Glu	Arg	Gly	Ile	Ile	Lys	Val	Gly	Glu	Glu	Val	Glu
			245						250					255	
Ile	Val	Gly	Ile	Lys	Glu	Thr	Ala	Lys	Ser	Thr	Cys	Thr	Gly	Val	Glu
			260					265					270		
Met	Phe	Arg	Lys	Leu	Leu	Asp	Glu	Gly	Arg	Ala	Gly	Glu	Asn	Val	Gly
	275						280					285			
Val	Leu	Leu	Arg	Gly	Ile	Lys	Arg	Glu	Glu	Ile	Glu	Arg	Gly	Gln	Val
	290					295					300				
Leu	Ala	Lys	Pro	Gly	Ser	Ile	Lys	Pro	His	Thr	Lys	Phe	Glu	Ser	Glu
305				310						315				320	
Val	Tyr	Ile	Leu	Ser	Lys	Asp	Glu	Gly	Gly	Arg	His	Thr	Pro	Phe	Phe
			325						330					335	
Lys	Gly	Tyr	Arg	Pro	Gln	Phe	Tyr	Phe	Arg	Thr	Thr	Asp	Val	Thr	Gly
			340					345					350		
Thr	Ile	Glu	Leu	Pro	Glu	Gly	Val	Glu	Met						

405

<210> 6021
 <211> 185
 <212> PRT
 <213> Enterobacter cloacae

<400> 6021

Gly	Ser	Glu	Met	Ser	Glu	Ala	Pro	Lys	Lys	Arg	Trp	Tyr	Val	Val	Gln
1				5					10					15	
Ala	Phe	Ser	Gly	Phe	Glu	Gly	Arg	Val	Ala	Thr	Ser	Leu	Arg	Glu	His
			20					25					30		
Ile	Lys	Leu	His	Asn	Met	Glu	Glu	Leu	Phe	Gly	Glu	Val	Met	Val	Pro
		35					40					45			
Thr	Glu	Glu	Val	Val	Glu	Ile	Arg	Gly	Gly	Gln	Arg	Arg	Lys	Ser	Glu
	50					55				60					
Arg	Lys	Phe	Phe	Pro	Gly	Tyr	Val	Leu	Val	Gln	Met	Val	Met	Asn	Asp
65					70					75				80	
Ala	Ser	Trp	His	Leu	Val	Arg	Ser	Val	Pro	Arg	Val	Met	Gly	Phe	Ile
				85					90					95	
Gly	Gly	Thr	Ser	Asp	Arg	Pro	Ala	Pro	Ile	Ser	Asp	Lys	Glu	Val	Asp
			100					105					110		
Ala	Ile	Met	Asn	Arg	Leu	Gln	Gln	Val	Gly	Asp	Lys	Pro	Arg	Pro	Lys
		115					120					125			
Thr	Leu	Phe	Glu	Pro	Gly	Glu	Met	Val	Arg	Val	Asn	Asp	Gly	Pro	Phe
	130					135					140				
Ala	Asp	Phe	Asn	Gly	Val	Val	Glu	Glu	Val	Asp	Tyr	Glu	Lys	Ser	Arg
145					150					155					160
Leu	Lys	Val	Ser	Val	Ser	Ile	Phe	Gly	Arg	Ala	Thr	Pro	Val	Glu	Leu
				165					170					175	
Asp	Phe	Ala	Gln	Val	Glu	Lys	Ala								
			180					185							

<210> 6022
 <211> 103
 <212> PRT
 <213> Enterobacter cloacae

<400> 6022

Thr	Pro	Gly	Leu	Arg	Ser	Ser	Asn	Gly	Gly	Pro	Val	Val	Leu	Phe	Thr
1				5					10					15	
Gln	Glu	Asp	Val	Met	Val	Thr	Ile	Arg	Leu	Ala	Arg	His	Gly	Ala	Lys
			20					25					30		
Lys	Arg	Pro	Phe	Tyr	Gln	Val	Val	Val	Thr	Asp	Ser	Arg	Asn	Ala	Arg
		35					40					45			
Asn	Gly	Arg	Phe	Ile	Glu	Arg	Val	Gly	Phe	Phe	Asn	Pro	Leu	Ala	Ala
	50					55					60				
Gly	Ala	Glu	Glu	Glu	Thr	Arg	Leu	Asp	Leu	Asp	Arg	Ile	Ala	His	Trp
65					70					75				80	
Val	Gly	Gln	Gly	Val	Thr	Val	Ser	Asp	Arg	Val	Ala	Thr	Leu	Ile	Lys
				85					90					95	
Ala	Ala	Asn	Lys	Ala	Ala										
			100												

<210> 6023
 <211> 185
 <212> PRT
 <213> Enterobacter cloacae

<400> 6023

Ser	Val	Thr	Val	Val	Met	Met	Ser	Asn	Lys	Ala	Pro	Val	Glu	Pro	Ile
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----


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1           5           10           15
Val Leu Gly Lys Met Gly Ser Cys Tyr Gly Ile Arg Gly Trp Leu Arg
20           25           30
Val Phe Ser Ser Thr Glu Asp Ala Asp Ser Ile Phe Asp Tyr Gln Pro
35           40           45
Trp Phe Ile Gln Lys Ala Gly Lys Trp Glu Glu Val Glu Leu Glu Ser
50           55           60
Trp Arg His His Asn Gln Asp Ile Ile Ile Lys Leu Lys Gly Ile Asp
65           70           75           80
Asp Arg Asp Ala Ala Asn Ala Leu Thr Asn Cys Glu Ile Val Val Asp
85           90           95
Ser Ser Gln Leu Pro Gln Leu Glu Glu Gly Asp Tyr Tyr Trp Lys Asp
100          105          110
Leu Met Gly Cys Gln Val Val Thr Thr Glu Gly Tyr Ser Leu Gly Lys
115          120          125
Val Ile Asp Met Met Glu Thr Gly Ser Asn Asp Val Leu Val Ile Lys
130          135          140
Ala Asn Leu Lys Asp Ala Phe Gly Ile Lys Glu Arg Leu Val Pro Phe
145          150          155          160
Leu Asp Gly Gln Val Ile Lys Lys Val Asp Leu Thr Thr Gln Thr Ile
165          170          175
Glu Val Asp Trp Asp Pro Gly Phe
180          185

```

<210> 6024

<211> 147

<212> PRT

<213> Enterobacter cloacae

<400> 6024

```

Val Glu Ala Gln Asn Arg Glu Arg Asp Gly Val Leu Arg Ile Lys Ala
1           5           10           15
Glu Met Glu Asn Leu Arg Arg Arg Thr Glu Leu Asp Val Glu Lys Ala
20           25           30
His Lys Phe Ala Leu Glu Lys Phe Val Asn Glu Leu Leu Pro Val Ile
35           40           45
Asp Ser Leu Asp Arg Ala Leu Glu Val Ala Asp Lys Ala Asn Pro Asp
50           55           60
Asn Ala Ala Met Ile Glu Gly Ile Glu Leu Thr Leu Lys Ser Met Leu
65           70           75           80
Asp Val Val Arg Lys Phe Gly Val Glu Val Ile Ala Asp Thr Asp Val
85           90           95
Pro Leu Asp Pro Asn Val His Gln Ala Ile Ala Met Val Glu Ser Glu
100          105          110
Asp Val Ala Ala Gly Asn Val Leu Gly Val Met Gln Lys Gly Tyr Thr
115          120          125
Leu Asn Gly Arg Thr Ile Arg Ala Ala Met Val Thr Val Ala Lys Ala
130          135          140
Lys Ala
145

```

<210> 6025

<211> 463

<212> PRT

<213> Enterobacter cloacae

<220>

<221> UNSURE

<222> (101)

<220>

<221>UNSURE

<222>(105)

<400> 6025

Arg	Phe	Tyr	Pro	Arg	Arg	Glu	Thr	Met	Phe	Asp	Asn	Leu	Thr	Asp	Arg
1				5					10					15	
Leu	Ser	Arg	Thr	Leu	Arg	Asn	Ile	Ser	Gly	Arg	Gly	Arg	Leu	Thr	Glu
			20					25					30		
Glu	Asn	Ile	Lys	Glu	Thr	Leu	Arg	Glu	Val	Arg	Met	Ala	Leu	Leu	Glu
		35					40					45			
Ala	Asp	Val	Ala	Leu	Pro	Val	Val	Arg	Asp	Phe	Ile	Asn	Arg	Val	Lys
	50					55					60				
Glu	Lys	Ala	Val	Gly	His	Glu	Val	Asn	Lys	Ser	Leu	Thr	Pro	Gly	Gln
65					70					75					80
Glu	Phe	Val	Lys	Ile	Val	Arg	Asn	Glu	Leu	Phe	Ser	Ala	Met	Gly	Glu
				85					90					95	
Glu	Asn	Gln	Val	Xaa	Asn	Leu	Ala	Xaa	Gln	Pro	Pro	Ala	Val	Val	Leu
			100					105					110		
Met	Ala	Gly	Leu	Gln	Gly	Ala	Gly	Lys	Thr	Thr	Ser	Val	Gly	Lys	Leu
		115					120						125		
Gly	Lys	Phe	Leu	Arg	Glu	Lys	His	Lys	Lys	Lys	Val	Leu	Val	Val	Ser
	130					135					140				
Ala	Asp	Val	Tyr	Arg	Pro	Ala	Ala	Ile	Lys	Gln	Leu	Glu	Thr	Leu	Ala
145					150					155					160
Glu	Gln	Val	Gly	Val	Asp	Phe	Phe	Pro	Ser	Asp	Val	Ala	Gln	Lys	Pro
				165					170					175	
Val	Asp	Ile	Val	Asn	Ala	Ala	Leu	Lys	Glu	Ala	Lys	Leu	Lys	Phe	Tyr
			180					185					190		
Asp	Val	Leu	Val	Val	Asp	Thr	Ala	Gly	Arg	Leu	His	Val	Asp	Glu	Ala
		195					200					205			
Met	Met	Asp	Glu	Ile	Lys	Gln	Val	His	Ala	Ser	Ile	Asn	Pro	Val	Glu
	210					215					220				
Thr	Leu	Phe	Val	Val	Asp	Ala	Met	Thr	Gly	Gln	Asp	Ala	Ala	Asn	Thr
225					230					235					240
Ala	Lys	Ala	Phe	Asn	Glu	Ala	Leu	Pro	Leu	Thr	Gly	Val	Val	Leu	Thr
				245					250					255	
Lys	Val	Asp	Gly	Asp	Ala	Arg	Gly	Gly	Ala	Ala	Leu	Ser	Ile	Arg	His
			260				265						270		
Ile	Thr	Gly	Lys	Pro	Ile	Lys	Phe	Leu	Gly	Val	Gly	Glu	Lys	Thr	Glu
		275					280					285			
Ala	Leu	Glu	Pro	Phe	His	Pro	Asp	Arg	Ile	Ala	Ser	Arg	Ile	Leu	Gly
	290					295				300					
Met	Gly	Asp	Val	Leu	Ser	Leu	Ile	Glu	Asp	Ile	Glu	Ser	Lys	Val	Asp
305					310					315					320
Arg	Ala	Gln	Ala	Glu	Lys	Leu	Ala	Ser	Lys	Leu	Lys	Lys	Gly	Asp	Gly
				325					330					335	
Phe	Asp	Leu	Thr	Asp	Phe	Leu	Glu	Gln	Leu	Arg	Gln	Met	Lys	Asn	Met
			340					345					350		
Gly	Gly	Met	Ala	Ser	Leu	Met	Gly	Lys	Leu	Pro	Gly	Met	Gly	Gln	Ile
		355					360					365			
Pro	Asp	Asn	Val	Lys	Ser	Gln	Met	Asp	Asp	Lys	Val	Leu	Val	Arg	Met
	370					375					380				
Glu	Ala	Ile	Ile	Asn	Ser	Met	Thr	Leu	Lys	Glu	Arg	Ala	Lys	Pro	Glu
385					390					395					400
Ile	Ile	Lys	Gly	Ser	Arg	Lys	Arg	Arg	Ile	Ala	Ala	Gly	Cys	Gly	Met
				405					410					415	
His	Val	Gln	Asp	Val	Asn	Arg	Leu	Leu	Lys	Gln	Phe	Asp	Asp	Met	Gln
			420					425					430		
Arg	Met	Met	Arg	Lys	Met	Lys	Lys	Ala	Gly	Met	Ala	Glu	Asp	Asp	Ala
		435					440					445			
Arg	His	Glu	Lys	His	Asp	Ala	Ala	Pro	Phe	Ser	Leu	Gly	Glu		

450

455

460

<210> 6026

<211> 262

<212> PRT

<213> Enterobacter cloacae

<400> 6026

```

Thr Val Lys Asp Gly Ala Met Trp Ile Gly Ile Ile Ser Leu Phe Pro
1      5      10      15
Glu Met Phe Arg Ala Ile Thr Asp Tyr Gly Val Thr Gly Arg Ala Val
      20      25      30
Lys Asn Gly Leu Leu Ser Ile Gln Ser Trp Ser Pro Arg Asp Phe Thr
      35      40      45
His Asp Arg His Arg Thr Val Asp Asp Arg Pro Tyr Gly Gly Gly Pro
      50      55      60
Gly Met Leu Met Met Val Gln Pro Leu Arg Asp Ala Ile His Thr Ala
      65      70      75      80
Lys Ala Ala Ala Gly Glu Gly Ala Lys Val Ile Tyr Leu Ser Pro Gln
      85      90      95
Gly Arg Lys Leu Asp Gln Ala Gly Val Ser Glu Leu Ala Thr Asn Gln
      100     105     110
Lys Leu Ile Leu Val Cys Gly Arg Tyr Glu Gly Ile Asp Glu Arg Val
      115     120     125
Ile Gln Thr Glu Ile Asp Glu Glu Trp Ser Ile Gly Asp Tyr Val Leu
      130     135     140
Ser Gly Gly Glu Leu Pro Ala Met Thr Leu Ile Asp Ser Val Ala Arg
      145     150     155     160
Phe Ile Pro Gly Val Leu Gly His Glu Ala Ser Ala Thr Glu Asp Ser
      165     170     175
Phe Ala Asp Gly Val Leu Asp Cys Pro His Tyr Thr Arg Pro Glu Val
      180     185     190
Leu Glu Gly Met Glu Val Pro Ala Val Leu Leu Ser Gly Asn His Ala
      195     200     205
Asp Ile Arg Arg Trp Arg Leu Lys Gln Ser Leu Gly Arg Thr Trp Leu
      210     215     220
Arg Arg Pro Glu Leu Leu Glu Asn Leu Ala Leu Thr Glu Glu Gln Ala
      225     230     235     240
Lys Leu Leu Ala Glu Phe Lys Thr Glu His Ala His Gln Gln His Glu
      245     250     255
His Asp Gly Lys Ala
      260

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<210> 6027

<211> 296

<212> PRT

<213> Enterobacter cloacae

<400> 6027

```

His Glu Gly Ala Phe Val Val Met Gln Arg Leu Glu Gln Ala Ser Arg
1      5      10      15
Asn Val Ile Leu Leu Leu Phe Leu Ile Lys Thr Thr Val Asp Ala Tyr
      20      25      30
Met Pro Val Phe Ala Leu Ile Ala Leu Val Ala Tyr Ser Val Ser Leu
      35      40      45
Ala Leu Ile Ile Pro Gly Leu Leu Gln Lys Asn Ser Gly Trp Arg Arg
      50      55      60
Met Ala Ile Leu Ser Ala Val Ile Ala Leu Ile Ser His Ala Phe Ala
      65      70      75      80
Leu Glu Ser Arg Ile Ile Pro Gly Asp Gly Ser Val Gln Asn Leu Ser
      85      90      95

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Val Leu Asn Val Gly Ser Leu Val Ser Leu Met Ile Cys Thr Val Met
      100      105      110
Thr Ile Val Ala Ser Lys Asn Arg Gly Trp Leu Leu Leu Pro Ile Val
      115      120      125
Tyr Ala Phe Ala Leu Ile Asn Leu Ala Leu Ala Thr Phe Met Pro Asn
      130      135      140
Glu Phe Ile Thr His Leu Glu Ala Thr Pro Gly Met Leu Val His Ile
      145      150      155      160
Gly Leu Ser Leu Phe Ala Tyr Ala Thr Leu Ile Ile Ala Ala Leu Tyr
      165      170      175
Ala Met Gln Leu Ala Trp Ile Asp Tyr Gln Leu Lys Asn Lys Lys Leu
      180      185      190
Ala Phe Asn His Glu Met Pro Pro Leu Met Val Ile Glu Arg Lys Met
      195      200      205
Phe His Ile Thr Gln Val Gly Val Val Leu Leu Thr Leu Thr Leu Cys
      210      215      220
Thr Gly Leu Phe Tyr Met Lys Asn Leu Phe Ser Val Glu Asn Ile Asp
      225      230      235      240
Lys Ala Val Leu Ser Ile Ile Ala Trp Phe Val Tyr Ile Val Leu Leu
      245      250      255
Trp Gly His Tyr His Glu Gly Trp Arg Gly Arg Arg Val Val Trp Phe
      260      265      270
Asn Val Ala Gly Ala Gly Ile Leu Thr Leu Ala Tyr Phe Gly Ser Arg
      275      280      285
Phe Ile Gln Gln Phe Ala Gly
      290      295

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<210> 6028

<211> 434

<212> PRT

<213> Enterobacter cloacae

<400> 6028

```

Gln Lys Glu Phe Pro Leu Glu His Ile Ser Thr Thr Thr Leu Ile Val
1      5      10      15
Ile Leu Val Ile Met Val Val Ile Ser Ala Tyr Phe Ser Gly Ser Glu
      20      25      30
Thr Gly Met Met Thr Leu Asn Arg Tyr Arg Leu Arg His Arg Ala Lys
      35      40      45
Gln Gly Asn Arg Ala Ala Arg Arg Val Glu Lys Leu Leu Arg Lys Pro
      50      55      60
Asp Arg Leu Ile Ser Leu Val Leu Ile Gly Asn Asn Leu Val Asn Ile
      65      70      75      80
Leu Ala Ser Ala Leu Gly Thr Ile Val Gly Met Arg Leu Tyr Gly Asn
      85      90      95
Ala Gly Val Ala Ile Ala Thr Gly Val Leu Thr Phe Val Val Leu Val
      100      105      110
Phe Ala Glu Val Leu Pro Lys Thr Ile Ala Ala Leu Tyr Pro Glu Lys
      115      120      125
Val Ala Tyr Pro Ser Ser Phe Leu Leu Ala Pro Leu Leu Ile Leu Met
      130      135      140
Met Pro Leu Val Trp Leu Leu Asn Met Val Thr Arg Val Leu Met Arg
      145      150      155      160
Met Val Gly Ile Lys Ala Asp Val Thr Ile Ser Ser Ala Leu Ser Lys
      165      170      175
Asp Glu Leu Arg Thr Ile Val Asn Glu Ser Arg Ser Gln Ile Ser Arg
      180      185      190
Arg Asn Gln Asp Met Leu Leu Ser Val Leu Asp Leu Glu Lys Val Ser
      195      200      205
Val Asp Asp Ile Met Val Pro Arg Asn Glu Ile Val Gly Ile Asp Ile
      210      215      220

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Asn Asp Asp Trp Lys Ala Ile Val Arg Gln Leu Thr His Ser Pro His
 225 230 235 240
 Gly Arg Ile Val Leu Tyr Arg Asp Ser Leu Asp Asp Ala Ile Ser Met
 245 250 255
 Leu Arg Val Arg Glu Ala Tyr Arg Leu Met Thr Glu Lys Asn Glu Phe
 260 265 270
 Thr Lys Glu Val Met Leu Arg Ala Ala Asp Glu Ile Tyr Tyr Val Pro
 275 280 285
 Glu Gly Thr Pro Leu Ser Thr Gln Leu Val Lys Phe Gln Arg Asn Lys
 290 295 300
 Lys Lys Val Gly Leu Val Val Asp Glu Tyr Gly Asp Ile Gln Gly Leu
 305 310 315 320
 Val Thr Val Glu Asp Ile Leu Glu Glu Ile Val Gly Asp Phe Thr Thr
 325 330 335
 Ser Met Ser Pro Ser Leu Ala Glu Glu Val Thr Pro Gln Asn Asp Gly
 340 345 350
 Ser Val Leu Ile Asp Gly Ser Ala Asn Ile Arg Glu Ile Asn Lys Ala
 355 360 365
 Phe Asn Trp His Leu Pro Glu Asp Glu Ala Arg Thr Met Asn Gly Met
 370 375 380
 Ile Leu Glu Ala Leu Glu Glu Ile Pro Ala Thr Gly Thr Arg Val Arg
 385 390 395 400
 Ile Glu Gln Tyr Asp Ile Asp Ile Leu Asp Val Gln Asp Asn Met Ile
 405 410 415
 Lys Gln Val Lys Val Leu Pro Val Lys Pro Leu Arg Glu Ser Ile Ala
 420 425 430
 Glu

<210> 6029

<211> 365

<212> PRT

<213> Enterobacter cloacae

<400> 6029

Arg Pro Arg Trp Gly Glu Lys Ile Lys Arg Phe Ser Asp Leu Ile Ile
 1 5 10 15
 Lys Glu Ser Arg His His Met Ala Val Ala Lys Lys Ile Thr Ile Asn
 20 25 30
 Asp Val Ala Leu Ala Ala Gly Val Ser Val Ser Thr Val Ser Leu Val
 35 40 45
 Leu Ser Gly Lys Gly Arg Ile Ser Pro Ala Thr Gly Gln Arg Val Asn
 50 55 60
 Glu Ala Val Glu Gln Leu Gly Phe Val Arg Asn Arg Gln Ala Ser Ala
 65 70 75 80
 Leu Arg Gly Gly Gln Ser Gly Val Ile Gly Leu Ile Val Arg Asp Leu
 85 90 95
 Ala Ser Pro Phe Tyr Ala Glu Leu Thr Ala Gly Leu Thr Glu Ala Leu
 100 105 110
 Glu Ala Gln Gly Arg Met Val Phe Leu Leu His Gly Gly Arg Glu Pro
 115 120 125
 Glu Gln Leu Leu Ser Arg Leu Asp Leu Leu Leu Thr Gln Gly Val Asp
 130 135 140
 Gly Val Ile Val Ala Gly Ala Ser Gly Val Gly Ser Glu Leu Cys Glu
 145 150 155 160
 Arg Ala Ala Gln Lys Gly Val Pro Leu Val Phe Ala Ser Arg Ala Ser
 165 170 175
 Tyr Leu Asp Glu Ala Asp Thr Leu Arg Pro Asp Asn Met Gln Ala Ala
 180 185 190
 Gln Met Leu Thr Glu His Leu Ile His Arg Gly His Gln Arg Ile Ala
 195 200 205

Trp Leu Gly Gly Lys Ser Ser Ser Leu Thr Arg Ala Glu Arg Val Gly
 210 215 220
 Gly Tyr Cys Ser Thr Leu Ile Lys Tyr Gly Leu Pro Phe His Ser Glu
 225 230 235 240
 Trp Val Val Glu Cys Glu Ser Ser Gln Lys Lys Ala Ala Glu Ala Ile
 245 250 255
 Gly Thr Leu Leu Arg Asn Ser Pro Thr Ile Ser Ala Val Ile Cys Tyr
 260 265 270
 Asn Asp Val Ile Ala Met Gly Ala Trp Phe Gly Leu Ile Arg Ala Gly
 275 280 285
 Arg Gln Ser Gly Glu Gly Gly Val Glu Thr Phe Phe Gly His Gln Val
 290 295 300
 Ala Leu Gly Ala Phe Ala Asp Val Gly Glu Asn Ala Leu Asp Asp Leu
 305 310 315 320
 Pro Ile Val Trp Ala Thr Thr Pro Ala Arg Glu Met Gly Tyr Thr Leu
 325 330 335
 Ala Glu Arg Ile Met Gln Arg Ile Glu Asn Thr Asp Val Gln Ala Gly
 340 345 350
 His Gln Ile Val Ala Ala Arg Leu Leu Thr Val Lys
 355 360 365

<210> 6030

<211> 231

<212> PRT

<213> Enterobacter cloacae

<400> 6030

Ile Ser Phe Tyr Pro Leu Arg Ser Arg Phe Met Thr Thr Lys Ala Ala
 1 5 10 15
 Gln Lys Ile Ser Leu Trp Glu Phe Phe Gln Gln Leu Gly Lys Thr Phe
 20 25 30
 Met Leu Pro Val Ala Leu Leu Ser Phe Cys Gly Ile Met Leu Gly Ile
 35 40 45
 Gly Ser Ser Leu Ser Ser His Asp Val Ile Thr Leu Ile Pro Phe Leu
 50 55 60
 Gly Asn Pro Val Leu Gln Ala Ile Phe Ile Trp Met Ser Lys Val Gly
 65 70 75 80
 Ser Phe Ala Phe Ser Phe Leu Pro Val Met Phe Cys Ile Ala Ile Pro
 85 90 95
 Leu Gly Leu Ala Arg Glu Asn Lys Gly Val Ala Ala Phe Ala Gly Phe
 100 105 110
 Val Gly Tyr Ala Val Met Asn Leu Ala Val Asn Phe Trp Leu Thr Ala
 115 120 125
 Lys Gly Ile Leu Pro Thr Thr Asp Ala Ala Val Val Lys Ala Asn Asn
 130 135 140
 Ile Gln Ser Val Ile Gly Ile Gln Ser Ile Asp Thr Gly Ile Leu Gly
 145 150 155 160
 Ala Val Ile Ala Gly Val Ile Ile Trp Met Leu His Glu Arg Phe His
 165 170 175
 Asn Ile Arg Leu Pro Asp Ala Leu Ala Phe Phe Gly Gly Thr Arg Phe
 180 185 190
 Val Pro Ile Ile Thr Leu Val Val Met Gly Leu Phe Gly Leu Ile Ile
 195 200 205
 Pro Leu Ile Trp Pro Ile Phe Ala Met Gly Asp His Arg Asp Trp Pro
 210 215 220
 His Tyr Gln Arg Arg Gly
 225 230

<210> 6031

<211> 201

<212> PRT

<213> Enterobacter cloacae

<400> 6031

Gly Gly Phe Thr Leu Arg Ser Thr Val Met Phe Asp Phe Ser Thr Val
 1 5 10 15
 Val Asp Arg His Gly Thr Trp Cys Thr Gln Trp Asp Tyr Val Ala Asp
 20 25 30
 Arg Phe Gly Ala Ala Asp Leu Leu Pro Phe Thr Ile Ser Asp Met Asp
 35 40 45
 Phe Ala Thr Ala Pro Cys Ile Thr Asp Ala Leu His Gln Arg Ile Asn
 50 55 60
 His Gly Val Phe Gly Tyr Ser Arg Trp Lys Asn Asp Glu Phe Leu Ala
 65 70 75 80
 Ala Val Ala His Trp Phe Arg Gln Arg Phe Asn Ser Gln Ile Asp Thr
 85 90 95
 Glu Thr Val Val Tyr Gly Pro Ser Val Ile Tyr Met Val Ser Glu Leu
 100 105 110
 Ile Arg Leu Trp Ser Ser Pro Gly Asp Gly Val Val Val His Thr Pro
 115 120 125
 Ala Tyr Asp Ala Phe Tyr Lys Ala Ile Glu Gly Asn Gln Arg Thr Val
 130 135 140
 Val Ser Val Pro Met Gln Lys Thr Ala His Gly Trp Glu Gly Asp Met
 145 150 155 160
 Ala Ser Leu Glu Thr Ala Leu Ser Lys Pro Glu Asn Lys Val Leu Leu
 165 170 175
 Leu Cys Tyr Pro Gln Asn Pro Thr Gly Lys Ile Trp Thr Arg Glu Ala
 180 185 190
 Leu Asn Thr Met Gly Gly Pro Val
 195 200

<210> 6032

<211> 331

<212> PRT

<213> Enterobacter cloacae

<400> 6032

Phe Gly Arg Phe Leu Pro Trp Gly Ile Thr Gly Ile Gly Arg Ile Ile
 1 5 10 15
 Asn Gly Ala Gly Asp Phe Gly Pro Met Ile Phe Gly Thr Gly Glu Arg
 20 25 30
 Leu Leu Leu Pro Phe Gly Leu Gln His Ile Leu Val Ala Leu Ile Arg
 35 40 45
 Phe Thr Glu Ala Gly Gly Thr Met Asp Val Cys Gly His Ser Val Ser
 50 55 60
 Gly Ala Leu Thr Ile Phe Gln Ala Gln Leu Ser Cys Pro Thr Thr His
 65 70 75 80
 Gly Phe Ser Glu Ser Ala Thr Arg Phe Leu Ser Gln Gly Lys Met Pro
 85 90 95
 Ala Phe Leu Gly Gly Leu Pro Gly Ala Ala Leu Ala Met Tyr His Cys
 100 105 110
 Ala Arg Pro Glu Asn Arg His Lys Ile Lys Gly Leu Leu Ile Ser Gly
 115 120 125
 Val Ile Ala Cys Val Val Gly Gly Thr Thr Glu Pro Ile Glu Phe Leu
 130 135 140
 Phe Leu Phe Val Ala Pro Val Leu Tyr Leu Ile His Ala Val Leu Thr
 145 150 155 160
 Gly Leu Gly Phe Thr Val Met Ala Val Leu Gly Val Thr Ile Gly Asn
 165 170 175
 Thr Asp Gly Asn Val Ile Asp Phe Val Val Phe Gly Ile Leu His Gly
 180 185 190
 Leu Ser Thr Lys Trp Tyr Leu Val Pro Val Val Ala Ala Ile Trp Phe

195	200	205
Ala Val Tyr Tyr Gly Ile Phe Arg Phe Ala Ile Thr Arg Phe Asn Leu		
210	215	220
Lys Thr Pro Gly Arg Asp Thr Asp Thr Ala Thr Ser Val Glu Gln Ala		
225	230	235
Val Ala Gly Thr Val Gly Lys Ser Gly Tyr Asn Thr Pro Ala Ile Leu		
245	250	255
Ala Ala Leu Gly Gly Ala Asp Asn Ile Thr Ser Leu Asp Asn Cys Ile		
260	265	270
Thr Arg Leu Arg Leu Ser Val Ala Asp Met Ser Lys Val Asp Thr Asn		
275	280	285
Ala Leu Lys Ala Asn Arg Ala Ile Gly Val Val Gln Leu Asn Gln His		
290	295	300
Asn Leu Gln Val Val Ile Gly Pro Gln Val Gln Ser Val Lys Asp Glu		
305	310	315
Leu Ala Thr Leu Met Arg Thr Val Glu Ala		
325	330	

<210> 6033

<211> 345

<212> PRT

<213> Enterobacter cloacae

<400> 6033

Leu Ser Ala Arg Gly Gly Thr Met Thr Gln Pro Leu Ala Gly Lys His		
1	5	10
Ile Leu Ile Val Glu Asp Glu Pro Val Phe Arg Ser Leu Leu Asp Ser		
20	25	30
Trp Leu Ser Ser Leu Gly Ala Thr Thr Ser Leu Ala Glu Asp Gly Val		
35	40	45
Glu Ala Leu Glu Lys Met Ala Ser Met Ala Pro Asp Leu Met Ile Cys		
50	55	60
Asp Leu Glu Met Pro Arg Met Asp Gly Leu Met Leu Val Glu Asn Leu		
65	70	75
Arg Asn Glu Gly Tyr Gln Thr Pro Ile Leu Val Ile Ser Ala Thr Glu		
85	90	95
Asn Met Ala Asp Ile Ala Lys Ala Leu Arg Leu Gly Val Gln Asp Ile		
100	105	110
Leu Leu Lys Pro Val Lys Asp Leu Asn Arg Leu Arg Glu Thr Val Leu		
115	120	125
Ala Cys Leu Tyr Pro Asn Met Phe Asn Ser Arg Val Glu Glu Glu Glu		
130	135	140
Arg Leu Phe Gln Asp Trp Asp Ala Leu Val Ser Asn Pro Leu Ala Ala		
145	150	155
Ala Lys Leu Leu Gln Glu Leu Gln Pro Pro Val Gln Gln Asn Ile Ser		
165	170	175
His Cys Arg Val Asn Tyr Arg Gln Leu Val Ala Ala Asp Gln Pro Gly		
180	185	190
Leu Val Leu Asp Ile Ala Pro Leu Ser Asp Ser Asp Leu Ala Phe Tyr		
195	200	205
Cys Leu Asp Val Thr Arg Ala Gly Asp Asn Gly Val Leu Ala Ala Leu		
210	215	220
Leu Leu Arg Ala Leu Phe Asn Gly Leu Leu Gln Glu Gln Leu Ser His		
225	230	235
Gln Gly Gln Arg Leu Pro Glu Leu Gly Ser Leu Leu Lys Gln Val Asn		
245	250	255
Gln Leu Phe Arg Gln Ala Asn Leu Pro Gly Gln Phe Pro Leu Leu Val		
260	265	270
Gly Tyr Tyr His Ser Gly Leu Asn Asn Leu Ile Leu Val Ser Ala Gly		
275	280	285
Leu Asn Ala Thr Leu Asn Thr Gly Glu His His Ile Gln Val Ser Asn		

290 295 300
 Gly Val Pro Leu Gly Thr Leu Gly Asn Thr Tyr Leu Asn Gln Ile Ser
 305 310 315 320
 His Arg Cys Thr Ser Trp Gln Cys Gln Ile Trp Gly Ala Gly Gly Arg
 325 330 335
 Leu Arg Leu Met Leu Ser Thr Glu
 340 345

<210> 6034

<211> 318

<212> PRT

<213> Enterobacter cloacae

<400> 6034

Ala Gly Ala Leu Thr Leu Cys Arg Glu Ser Arg Gly Ser Lys Thr Gly
 1 5 10 15
 Leu Met Arg Lys Val Lys Ile Gly Leu Ala Leu Gly Ser Gly Ala Ala
 20 25 30
 Arg Gly Trp Ser His Ile Gly Val Ile Asn Thr Leu Asn Gln Met Gly
 35 40 45
 Ile Asp Val Asp Ile Val Ala Gly Cys Ser Ile Gly Ser Leu Val Gly
 50 55 60
 Ser Ala Tyr Ala Cys Gly Lys Leu Pro Glu Leu Glu Ser Trp Val Arg
 65 70 75 80
 Ser Phe Ser Tyr Trp Asp Val Leu Arg Leu Met Asp Leu Ser Trp Gln
 85 90 95
 Arg Gly Gly Leu Leu Arg Gly Glu Arg Val Phe Asn Gln Phe Arg Lys
 100 105 110
 Ile Met Pro Leu Ala Asp Phe Ser His Cys Gln Met Pro Phe Gly Ala
 115 120 125
 Val Ala Thr Asn Leu Ser Thr Gly Arg Glu Leu Trp Leu Thr Glu Gly
 130 135 140
 Asp Ile His Leu Ala Val Arg Ala Ser Cys Ser Met Pro Gly Leu Met
 145 150 155 160
 Ala Pro Val Pro His Asn Gly Tyr Trp Leu Val Asp Gly Gly Val Val
 165 170 175
 Asn Pro Val Pro Val Ser Leu Thr Arg Ala Met Gly Ala Asp Ile Val
 180 185 190
 Ile Ala Val Asp Leu Gln His Asp Ala His Leu Met Gln Gln Asp Leu
 195 200 205
 Met Pro Val Asn Leu Gln Ser Asp Asp Ala Glu Glu Glu Lys Leu Ala
 210 215 220
 Trp His Ala Arg Leu Arg Gly Arg Ile Gly Arg Leu Ala Ala Arg Arg
 225 230 235 240
 Ala Val Thr Ala Pro Asn Ala Ile Glu Ile Met Thr Thr Ser Ile Gln
 245 250 255
 Ile Leu Glu Asn Arg Leu Lys Arg Asn Arg Met Ala Gly Asp Pro Pro
 260 265 270
 Asp Ile Leu Ile Gln Pro Tyr Cys Pro Gln Ile Ser Thr Leu Asp Phe
 275 280 285
 His Arg Ala Glu Ala Ala Ile Ala Ala Gly Ser Leu Ala Val Glu Lys
 290 295 300
 Lys Ile Asp Glu Leu Leu Pro Phe Val Arg Thr Ala Arg
 305 310 315

<210> 6035

<211> 280

<212> PRT

<213> Enterobacter cloacae

<400> 6035

Cys Cys Pro Arg Ser Lys Gln Ser Asp Phe Ile Phe Gln Ile Ala Leu
 1 5 10 15
 Pro Val Phe Leu Leu Ala Val Leu Leu Ser Leu Gln Val Ser Cys Val
 20 25 30
 Phe Val Leu Ile Asp Arg Gln Arg Val Leu Phe Arg Pro Val Leu Val
 35 40 45
 Ala Glu Thr Val Tyr Ser Thr Arg Tyr Ser Met His Lys Ser Ser Lys
 50 55 60
 Leu Glu Gln Phe Arg Arg Ile Ser Met Ala Ala Leu Asn Ser Lys Val
 65 70 75 80
 Arg Lys Ala Val Ile Pro Val Ala Gly Leu Gly Thr Arg Met Leu Pro
 85 90 95
 Ala Thr Lys Ala Ile Pro Lys Glu Met Leu Pro Leu Val Asp Lys Pro
 100 105 110
 Leu Ile Gln Tyr Val Val Asn Glu Cys Ile Ala Ala Gly Ile Thr Glu
 115 120 125
 Ile Val Leu Val Thr His Ser Ser Lys Asn Ser Ile Glu Asn His Phe
 130 135 140
 Asp Thr Ser Phe Glu Leu Glu Ala Met Leu Glu Lys Arg Val Lys Arg
 145 150 155 160
 Gln Leu Leu Glu Glu Val Gln Ser Ile Cys Pro Pro His Val Thr Ile
 165 170 175
 Met Gln Val Arg Gln Gly Leu Ala Lys Gly Leu Gly His Ala Val Leu
 180 185 190
 Cys Ala His Pro Val Val Gly Asp Glu Pro Val Ala Val Ile Leu Pro
 195 200 205
 Asp Val Ile Leu Asp Glu Tyr Glu Ser Asp Leu Ser Gln Glu Asn Leu
 210 215 220
 Ala Glu Met Ile Lys Arg Phe Asp Glu Thr Gly Ser Ser Gln Ile Met
 225 230 235 240
 Val Glu Pro Val Asp Asp Val Thr Ala Tyr Gly Val Val Asp Cys Lys
 245 250 255
 Gly Val Asp Leu Gln Pro Gly Glu Ser Val Pro Ile Val Val Phe Thr
 260 265 270
 Thr Gly Ala Asp Gly Ala Gly
 275 280

<210> 6036

<211> 297

<212> PRT

<213> Enterobacter cloacae

<400> 6036

Cys Leu Thr Thr Gln Thr Ser Gln Ile His Lys Gln Asp Phe Pro Ala
 1 5 10 15
 Met Gln Ser Leu Gln Arg Lys Val Leu Arg Thr Ile Cys Pro Asp Gln
 20 25 30
 Lys Gly Leu Ile Ala Arg Ile Thr Asn Ile Cys Tyr Lys His Glu Leu
 35 40 45
 Asn Ile Val Gln Asn Asn Glu Phe Val Asp His Arg Thr Gly Arg Phe
 50 55 60
 Phe Met Arg Thr Glu Leu Glu Gly Ile Phe Asn Asp Thr Thr Leu Leu
 65 70 75 80
 Ala Asp Leu Asp Ser Ala Leu Pro Glu Gly Ser Val Arg Glu Leu Asn
 85 90 95
 Pro Ala Gly Arg Arg Arg Ile Val Ile Leu Val Thr Lys Glu Ala His
 100 105 110
 Cys Leu Gly Asp Leu Leu Met Lys Ala Asn Tyr Gly Gly Leu Asp Val
 115 120 125
 Glu Ile Ala Ala Val Ile Gly Asn His Glu Thr Leu Arg Thr Leu Val
 130 135 140

Glu Arg Phe Asp Ile Pro Phe Glu Leu Val Ser His Glu Gly His Thr
 145 150 155 160
 Arg Glu Glu His Asp Asn Leu Met Ala Ala Ile Glu Ala His Asn
 165 170 175
 Pro Asp Tyr Val Val Leu Ala Lys Tyr Met Arg Val Leu Thr Pro Ser
 180 185 190
 Phe Val Ala Arg Phe Pro Asn Lys Ile Ile Asn Ile His His Ser Phe
 195 200 205
 Leu Pro Ala Phe Ile Gly Ala Arg Pro Tyr His Gln Ala Tyr Glu Arg
 210 215 220
 Gly Val Lys Ile Ile Gly Ala Thr Ala His Tyr Val Asn Asp Asn Leu
 225 230 235 240
 Asp Glu Gly Pro Ile Ile Met Gln Asp Val Ile His Val Asp His Thr
 245 250 255
 Tyr Thr Ala Glu Asp Met Met Arg Ala Gly Arg Asp Val Glu Lys Asn
 260 265 270
 Val Leu Ser Arg Ala Leu Tyr Gln Val Leu Ala Gln Arg Val Phe Val
 275 280 285
 Tyr Gly Asn Arg Thr Ile Ile Leu
 290 295

<210> 6037

<211> 165

<212> PRT

<213> Enterobacter cloacae

<400> 6037

Arg Leu Ile Phe Cys Ser Arg Lys Arg Ile Val Ser Gln Leu Cys Pro
 1 5 10 15
 Cys Gly Ser Ala Leu Glu Tyr Ser Leu Cys Cys Gln Arg Tyr Leu Ser
 20 25 30
 Gly Lys Gln Val Ala Pro Asp Pro Ser His Leu Met Arg Ser Arg Tyr
 35 40 45
 Thr Ala Phe Val Ile Lys Asn Ala Asp Tyr Leu Ile Lys Thr Trp His
 50 55 60
 Pro Ser Cys His Ala Ala Asp Phe Arg Gln Glu Ile Glu Ala Gly Phe
 65 70 75 80
 Ala Asn Thr Val Trp Gln Gly Leu Thr Val Phe Glu Ala Ala Pro Gly
 85 90 95
 Arg Asp Ala Asn Glu Gly Tyr Val Ser Phe Val Ala Arg Phe Ser Glu
 100 105 110
 Gln Asn Lys Pro Gly Ala Ile Ile Glu Arg Ser Arg Phe Leu Lys Asp
 115 120 125
 Ser Gly Gln Trp Tyr Tyr Ile Asp Gly Thr Arg Pro Gln Phe Gly Arg
 130 135 140
 Asn Asp Pro Cys Pro Cys Gly Ser Gly Lys Lys Phe Lys Lys Cys Cys
 145 150 155 160
 Gly Ser Asn Ala
 165

<210> 6038

<211> 74

<212> PRT

<213> Enterobacter cloacae

<400> 6038

Gly Tyr Thr Arg Ala Thr Met Ala His Thr Lys Arg Ser Asp Leu Ala
 1 5 10 15
 Arg Ala Ser Gly Pro His Lys Val Arg Arg Ser Pro Asp Trp Ser Leu
 20 25 30
 Gln Leu Asp Ser Met Lys Ser Glu Ser Leu Val Ile Val Asp Gln Asn

35 40 45
 Ala Thr Val Asn Thr Phe Pro Gly Leu Val His Thr Ala Arg His Thr
 50 55 60
 Met Gly Val Gly Cys Lys Arg Ser Arg
 65 70

<210> 6039
 <211> 63
 <212> PRT
 <213> Enterobacter cloacae

<400> 6039
 Glu Ser Gly Pro Cys Leu Ser Ser Ser Val Ala Gly His Pro Leu Arg
 1 5 10 15
 Pro Ala Arg Asp Arg Arg Leu Gly Glu Pro Leu Pro His Leu Leu Ala
 20 25 30
 Asn Pro Ile Trp Ala His Pro Met Ala Arg Gly Pro Lys Val Pro Leu
 35 40 45
 Phe Gly Leu Ala Thr Leu Cys Gly Ile Ser Tyr Arg Phe Gln
 50 55 60

<210> 6040
 <211> 215
 <212> PRT
 <213> Enterobacter cloacae

<400> 6040
 Val Ser Gln Gln Val Ser Thr Val Leu Asn Lys Leu Ser Arg Leu Leu
 1 5 10 15
 Glu Gln Ala Gly Ile Ser Leu Thr Asp His Gln Lys Asn Gln Leu Val
 20 25 30
 Ala Tyr Val Asp Met Leu Asn Lys Trp Asn Lys Ala Tyr Asn Leu Thr
 35 40 45
 Ser Val Arg Asp Pro Asn Glu Met Leu Ile Arg His Ile Leu Asp Ser
 50 55 60
 Ile Val Val Ala Pro Tyr Leu Asn Gly Glu Arg Phe Ile Asp Val Gly
 65 70 75 80
 Thr Gly Pro Gly Leu Pro Gly Val Pro Leu Ser Ile Val Arg Pro Glu
 85 90 95
 Ser His Phe Thr Leu Leu Asp Ser Leu Gly Lys Arg Val Arg Phe Leu
 100 105 110
 Arg Gln Val Gln His Glu Leu Lys Leu Glu Asn Ile Thr Pro Val Gln
 115 120 125
 Ser Arg Val Glu Glu Phe Pro Ala Glu Pro Pro Phe Asp Gly Val Ile
 130 135 140
 Ser Arg Ala Phe Ala Ser Leu Asn Asp Met Val Ser Trp Cys Lys His
 145 150 155 160
 Leu Pro Ala Glu Lys Gly Arg Phe Tyr Ala Leu Lys Gly Gln Leu Pro
 165 170 175
 Gly Asp Glu Ile Glu Gln Leu Pro Asp Gly Phe Ala Val Glu Ser Ile
 180 185 190
 Glu Lys Leu Gln Ile Pro Gln Leu Glu Gly Glu Arg His Leu Val Ile
 195 200 205
 Ile Lys Pro Asn Thr Phe
 210 215

<210> 6041
 <211> 137
 <212> PRT
 <213> Enterobacter cloacae

<400> 6041

Gln Arg Val Lys Gly Ile Met Ala Ser Glu Asn Met Thr Pro Gln Asp
 1 5 10 15
 Tyr Ile Gly His His Leu Asn Asn Leu Gln Leu Asp Leu Arg Thr Phe
 20 25 30
 Ser Leu Val Asp Pro His Asn Pro Pro Ala Thr Phe Trp Thr Ile Asn
 35 40 45
 Ile Asp Ser Met Phe Phe Ser Val Val Leu Gly Leu Leu Phe Leu Ala
 50 55 60
 Met Phe Arg Ser Val Ala Lys Lys Ala Thr Ser Gly Val Pro Gly Lys
 65 70 75 80
 Phe Gln Thr Phe Ile Glu Met Ile Ile Gly Phe Val His Gly Ser Val
 85 90 95
 Lys Glu Leu Tyr His Gly Lys Ser Lys Leu Ile Ala Pro Leu Ala Leu
 100 105 110
 Asn Val Phe Val Trp Val Phe Leu Met Thr Leu Met Asp Leu Leu Pro
 115 120 125
 Ile His Phe Leu Pro Trp Asp Arg
 130 135

<210> 6042

<211> 649

<212> PRT

<213> Enterobacter cloacae

<400> 6042

Asn Pro Arg Pro Gly Leu Gln Ser Ile Phe Ile Pro Leu Tyr Ala Arg
 1 5 10 15
 Gln Thr Thr Met Phe Tyr Gln Asp Pro Phe Asp Val Ile Ile Gly
 20 25 30
 Gly Gly His Ala Gly Thr Glu Ala Ala Met Ala Ala Arg Met Gly
 35 40 45
 Gln Gln Thr Leu Leu Leu Thr His Asn Ile Asp Thr Leu Gly Gln Met
 50 55 60
 Ser Cys Asn Pro Ala Ile Gly Gly Ile Gly Lys Gly His Leu Val Lys
 65 70 75 80
 Glu Val Asp Ala Leu Gly Gly Leu Met Ala Lys Ala Ile Asp His Ala
 85 90 95
 Gly Ile Gln Phe Arg Ile Leu Asn Ala Ser Lys Gly Pro Ala Val Arg
 100 105 110
 Ala Thr Arg Ala Gln Ala Asp Arg Val Leu Tyr Arg Gln Ala Val Arg
 115 120 125
 Thr Ala Leu Glu Asn Gln Pro Asn Leu Met Ile Phe Gln Gln Ala Val
 130 135 140
 Glu Asp Leu Ile Val Glu Asn Asp Arg Val Val Gly Ala Val Thr Gln
 145 150 155 160
 Met Gly Leu Lys Phe Arg Ala Lys Ala Val Val Leu Thr Val Gly Thr
 165 170 175
 Phe Leu Asp Gly Lys Ile His Ile Gly Leu Asp Asn Tyr Ser Gly Gly
 180 185 190
 Arg Ala Gly Asp Pro Pro Ser Ile Pro Leu Ser Arg Arg Leu Arg Glu
 195 200 205
 Leu Pro Leu Arg Val Ser Arg Leu Lys Thr Gly Thr Pro Pro Arg Ile
 210 215 220
 Asp Ala Arg Thr Ile Asp Phe Ser Val Leu Ala Gln Gln His Gly Asp
 225 230 235 240
 Asn Pro Met Pro Val Phe Ser Phe Met Gly Asn Ala Ala Gln His Pro
 245 250 255
 Gln Gln Val Pro Cys Tyr Ile Thr His Thr Asn Glu Lys Thr His Asp
 260 265 270
 Val Ile Arg Asn Asn Leu Asp Arg Ser Pro Met Tyr Ala Gly Val Ile

275 280 285
 Glu Gly Ile Gly Pro Arg Tyr Cys Pro Ser Ile Glu Asp Lys Val Met
 290 295 300
 Arg Phe Ala Asp Arg Asn Gln His Gln Ile Phe Leu Glu Pro Glu Gly
 305 310 315 320
 Leu Thr Ser Asn Glu Ile Tyr Pro Asn Gly Ile Ser Thr Ser Leu Pro
 325 330 335
 Phe Asp Val Gln Met Gln Ile Val Arg Ser Met Gln Gly Met Glu Asn
 340 345 350
 Ala Lys Ile Val Arg Pro Gly Tyr Ala Ile Glu Tyr Asp Phe Phe Asp
 355 360 365
 Pro Arg Asp Leu Lys Pro Thr Leu Glu Ser Lys Phe Ile Gln Gly Leu
 370 375 380
 Phe Phe Ala Gly Gln Ile Asn Gly Thr Thr Gly Tyr Glu Glu Ala Ala
 385 390 395 400
 Ala Gln Gly Leu Leu Ala Gly Leu Asn Ala Ala Arg Phe Ser Ala Glu
 405 410 415
 Lys Glu Gly Trp Ala Pro Ala Arg Ser Gln Ala Tyr Leu Gly Val Leu
 420 425 430
 Val Asp Asp Leu Cys Thr Leu Gly Thr Lys Glu Pro Tyr Arg Met Phe
 435 440 445
 Thr Ser Arg Ala Glu Tyr Arg Leu Met Leu Arg Glu Asp Asn Ala Asp
 450 455 460
 Leu Arg Leu Thr Glu Val Gly Arg Glu Leu Gly Leu Val Asp Asp Glu
 465 470 475 480
 Arg Trp Ala Arg Phe Asn Glu Lys Leu Glu Arg Ile Glu Gln Glu Arg
 485 490 495
 Gln Arg Leu Lys Thr Thr Trp Val Asn Pro Gln Ala Glu Thr Ala Ala
 500 505 510
 Glu Val Asn Ala His Leu Thr Ala Pro Leu Ser Arg Glu Ala Ser Gly
 515 520 525
 Glu Asp Leu Leu Arg Arg Pro Glu Val Thr Tyr Glu Asn Leu Val Lys
 530 535 540
 Leu Thr Ala Phe Ala Pro Gly Leu Glu Asp Ala Glu Ala Ala Glu Gln
 545 550 555 560
 Val Glu Ile Gln Val Lys Tyr Glu Gly Tyr Ile Ala Arg Gln Gln Asp
 565 570 575
 Glu Ile Glu Lys Gln Gln Arg Asn Glu Asn Thr Leu Leu Pro Glu Met
 580 585 590
 Leu Asp Tyr Arg Gln Val Thr Gly Leu Ser Asn Glu Val Ile Ala Lys
 595 600 605
 Leu Asn Asp His Lys Pro Val Ser Ile Gly Gln Ala Ser Arg Ile Ser
 610 615 620
 Gly Val Thr Pro Ala Ala Ile Ser Ile Leu Leu Val Trp Leu Lys Lys
 625 630 635 640
 Gln Gly Met Leu Arg Arg Ser Ala
 645

<210> 6043

<211> 152

<212> PRT

<213> Enterobacter cloacae

<400> 6043

Cys Leu Thr Leu Ser Leu Lys Gly Arg Phe Ile Arg His Ala Ala Tyr
 1 5 10 15
 Leu Glu Gly Ser Arg Ser Lys Asn Val Met Ser Val Ser Leu Leu Ser
 20 25 30
 Arg Asn Val Ala Arg Lys Leu Leu Phe Ile Gln Phe Leu Ala Val Ile
 35 40 45
 Ala Ser Gly Leu Leu Phe Ser Leu Lys Asp Pro Phe Trp Gly Ile Ser

50		55		60											
Ala	Ala	Cys	Gly	Gly	Leu	Ala	Val	Val	Leu	Pro	Asn	Val	Leu	Phe	Met
65				70					75						80
Ile	Phe	Ala	Trp	Arg	His	Gln	Ala	His	Thr	Pro	Ala	Lys	Gly	Arg	Val
			85						90					95	
Ala	Trp	Ser	Phe	Ala	Leu	Gly	Glu	Val	Cys	Lys	Val	Leu	Leu	Thr	Phe
			100					105					110		
Ala	Leu	Leu	Val	Met	Ala	Leu	Ala	Val	Leu	Lys	Val	Val	Phe	Met	Pro
		115					120					125			
Leu	Ile	Ala	Thr	Trp	Val	Leu	Val	Leu	Val	Val	Gln	Val	Leu	Ala	Pro
	130					135					140				
Ala	Val	Ile	Asn	Asn	Lys	Gly									
145					150										

<210> 6044

<211> 256

<212> PRT

<213> Enterobacter cloacae

<400> 6044

Arg	Ile	Pro	Phe	Pro	Thr	Cys	Asn	Asn	Asp	Tyr	Ser	Gly	Ser	Val	Phe
1				5					10					15	
Ala	Glu	Pro	Val	Phe	Lys	Val	Ala	Ile	Met	Leu	Asn	Ala	Ile	Leu	Leu
			20					25					30		
Ala	Gly	Leu	Leu	Leu	Ser	Thr	Gly	His	Ser	Trp	Ala	Asn	Ile	Val	Ile
		35					40					45			
Asn	Gly	Thr	Arg	Val	Leu	Tyr	Pro	Glu	Asn	Asn	Lys	Glu	Val	Ile	Val
	50				55					60					
Gln	Leu	Met	Asn	Thr	Gly	Asp	Ala	Pro	Ala	Leu	Val	Gln	Ser	Trp	Ile
65				70						75				80	
Asp	Asp	Gly	Asp	Ile	Asn	Ser	Thr	Pro	Glu	Thr	Ala	Asn	Val	Pro	Phe
			85					90						95	
Leu	Leu	Ser	Pro	Pro	Val	Ile	Lys	Val	Asn	Glu	His	Asn	Gly	Gln	Gln
			100					105					110		
Leu	Arg	Ile	Lys	Lys	Leu	Pro	Ser	Ser	Leu	Pro	Ala	Asp	Arg	Glu	Ser
		115				120						125			
Val	Phe	Phe	Leu	Asn	Val	Leu	Asp	Ile	Pro	Pro	Arg	Pro	Glu	Asn	Leu
	130					135					140				
Gln	Asn	Gln	Asn	Thr	Val	Gln	Leu	Ala	Ile	Lys	Ser	Arg	Ile	Lys	Leu
145					150					155					160
Phe	Tyr	Arg	Pro	Ala	Ala	Leu	Lys	Gly	Thr	Leu	Asp	Asp	Ala	Val	Ala
			165						170					175	
Lys	Leu	Thr	Leu	Ala	Ala	Glu	Gly	Asp	Arg	Phe	Arg	Ile	Thr	Asn	Asn
		180					185					190			
Ser	Pro	Phe	His	Ile	Thr	Val	Ala	Asn	Ile	Ser	Leu	Gly	Lys	Thr	Lys
	195					200						205			
Leu	Leu	Gln	Glu	Ser	Pro	Met	Val	Ser	Pro	Phe	Gly	Gln	Leu	Thr	Val
	210				215						220				
Ala	Ala	Lys	Asn	Thr	Val	Lys	Arg	Gly	Gln	Thr	Phe	Gln	Leu	Met	Tyr
225				230						235					240
Val	Asp	Asp	Leu	Gly	Ala	Tyr	Lys	Thr	Arg	Thr	Phe	Thr	Ser	Gln	
			245						250					255	

<210> 6045

<211> 836

<212> PRT

<213> Enterobacter cloacae

<400> 6045

Ser	Glu	Arg	Leu	Thr	Met	Lys	Met	Lys	Gln	Asn	Arg	Leu	Cys	Leu	Leu
1				5					10					15	

Ala	Val	Cys	Thr	Leu	Leu	Leu	Ser	His	Lys	Ser	Gly	Ala	Val	Ser	Phe
			20					25					30		
Asp	Pro	Ser	Leu	Leu	Ala	Gly	Ala	Ser	Gly	Glu	Ser	Asp	Leu	Ser	Arg
		35					40					45			
Phe	Ser	Glu	Asn	Asn	Ala	Met	Pro	Ala	Gly	Ser	Gln	Glu	Met	Asp	Ile
	50					55					60				
Tyr	Val	Asn	Gly	Ser	Trp	Lys	Gly	Arg	Tyr	Thr	Val	Ile	Tyr	Gly	Glu
65					70					75					80
Gln	Arg	Asp	Asp	Ile	Arg	Ile	Ala	Trp	Lys	Asp	Ala	Arg	Ser	Leu	Gly
				85					90					95	
Ile	Asn	Thr	Thr	Ser	Val	Pro	Ala	Pro	Ala	Ile	Ala	His	Gly	Gln	Val
			100					105					110		
Gln	Leu	Arg	Asp	Leu	Val	Gln	Gly	Gly	Glu	Val	Lys	Thr	Asp	Thr	Ser
		115					120					125			
Thr	Leu	Ser	Leu	Ala	Leu	Thr	Val	Pro	Gln	Ala	Ala	Val	Leu	Arg	Thr
	130					135					140				
Glu	Glu	Gly	Tyr	Ile	Ala	Arg	Gln	Phe	Trp	Asp	Glu	Gly	Ile	Pro	Ala
145					150					155					160
Leu	Met	Leu	Ser	Trp	Asn	Thr	Thr	Trp	Tyr	Asn	Thr	Arg	Ala	Lys	Gly
				165					170					175	
Ala	Ala	Lys	Asp	Thr	Asn	Asp	Asp	Phe	Tyr	Ala	Gly	Leu	Asp	Ser	Gly
			180					185					190		
Ala	Asn	Leu	Phe	Gly	Trp	Gln	Phe	Arg	Asp	Ser	Ser	Ala	Trp	Arg	Lys
		195				200						205			
Thr	Ala	Ser	Gly	Glu	Ser	Ser	Trp	Gln	Asn	Asn	Thr	Arg	Tyr	Leu	Arg
	210					215					220				
Arg	Pro	Leu	Ala	Ser	Leu	Lys	Ser	Asn	Leu	Thr	Leu	Gly	Asp	Phe	Tyr
225					230					235					240
Ile	Pro	Gly	Asp	Leu	Phe	Asp	Ser	Leu	Arg	Val	Arg	Gly	Val	Ser	Leu
				245					250					255	
Ala	Ser	Asp	Met	Lys	Met	Arg	Pro	Asn	Ser	Gln	Gln	Gly	Phe	Ser	Pro
			260					265					270		
Val	Val	His	Gly	Val	Ala	Arg	Thr	Asn	Ala	Leu	Val	Lys	Val	Ile	Gln
		275					280					285			
Asn	Gly	Asn	Val	Ile	Tyr	Gln	Glu	Asn	Val	Pro	Pro	Gly	Gln	Phe	Thr
	290					295					300				
Leu	Asp	Ser	Ile	Gln	Pro	Thr	Gly	Ser	Ala	Gly	Asp	Leu	Leu	Val	Val
305					310					315					320
Val	Arg	Glu	Ala	Asp	Gly	Ser	Gln	Gln	Ser	Phe	Thr	Val	Pro	Phe	Ser
				325					330					335	
Ala	Val	Pro	Gly	Met	Leu	Lys	Glu	Gly	Val	Ser	Gln	Tyr	Ser	Val	Val
			340					345					350		
Ala	Gly	Lys	Val	His	Gln	Asn	Thr	Leu	Asp	Ala	Glu	Pro	Ala	Phe	Met
		355					360					365			
Gln	Ala	Thr	Leu	Arg	Tyr	Gly	Phe	Asn	Asn	Leu	Ile	Thr	Gly	Tyr	Thr
	370					375					380				
Gly	Thr	Ile	Ile	Ser	Asp	Asn	Tyr	Gln	Ala	Gly	Leu	Val	Gly	Thr	Gly
385					390					395					400
Trp	Asn	Leu	Pro	Phe	Gly	Ala	Val	Ser	Phe	Asp	Val	Thr	His	Ala	Lys
				405					410					415	
Thr	Thr	Leu	Gln	Asp	Arg	Thr	Ser	Ser	Gly	Gln	Ser	Tyr	Arg	Val	Ser
			420					425					430		
Tyr	Ser	Lys	Phe	Ile	Asp	Thr	Thr	Ala	Thr	Asn	Phe	Thr	Leu	Ala	Ala
		435					440					445			
Tyr	Arg	Tyr	Ser	Thr	Lys	Gly	Tyr	Tyr	Ser	Phe	Ser	Asp	Ala	Leu	Tyr
	450					455					460				
Ser	Arg	Glu	Gly	Tyr	Gln	Arg	Leu	Arg	Ala	Gln	Tyr	Asp	Asp	Tyr	Glu
465					470					475					480
Asp	Arg	Phe	Gly	Val	Ala	Pro	Asp	Met	Ser	Leu	Ser	Thr	Trp	Asp	Ala
				485					490					495	
Met	Arg	Ala	Ala	Gln	Pro	Lys	Asn	Thr	Phe	Thr	Leu	Asn	Leu	Asn	Gln

500 505 510
 Arg Leu Leu Asn Asn Trp Gly Thr Val Phe Val Ser Gly Thr Gln Arg
 515 520 525
 Asp Tyr Trp Asn Ser Gln Gln Thr Thr Arg Glu Tyr Gln Met Gly Tyr
 530 535 540
 Ser Asn Ala Ile Gly Arg Ala Ser Tyr Thr Leu Ser Ala Ser Arg Val
 545 550 555 560
 Arg Asn Arg Asp Ser Glu Glu Glu Thr Arg Leu Tyr Leu Ser Leu Ser
 565 570 575
 Leu Pro Phe Ser Leu Phe Asp Asn Asn Ala Trp Ile Thr Ser Ser Leu
 580 585 590
 Thr Ala Ser Asp Ser His Tyr Glu Gln Ser Asn Ile Ser Met Ser Gly
 595 600 605
 Asn Ala Leu Ala Ser Asn Arg Leu Ser Tyr Thr Leu Ser Gly Ser Asn
 610 615 620
 Ala Arg Gly Gly Lys Asn Ala Ala Ser Val Asn Ala Ala Tyr Arg Ser
 625 630 635 640
 Asn Phe Ala Thr Leu Gly Gly Ser Tyr Ser Glu Ser Ser Asp Tyr Arg
 645 650 655
 Gln Thr Gly Leu Ser Gly Arg Gly Ser Leu Val Ala Tyr Pro Trp His
 660 665 670
 Val Leu Ala Ser Asn Glu Thr Gly Thr Thr Met Thr Ile Val Asp Ala
 675 680 685
 Pro Lys Ala Glu Gly Leu Met Val Asn Gly Asp Glu Ser Ile Met Thr
 690 695 700
 Asn Arg Asp Gly Val Ala Leu Val His Asn Ala Thr Arg Ile Cys Lys
 705 710 715 720
 Asn Ala Ile Thr Leu Thr Glu Thr Glu Asn Ser Ala Gly Ala Glu Val
 725 730 735
 Ile Gly Asn Met Ala Asn Val Ala Pro Tyr Asp Gly Ala Val Ser Tyr
 740 745 750
 Ile Arg Phe Glu Thr Asp Lys Arg Gln Ser Trp Val Leu His Ala Thr
 755 760 765
 Arg Ala Asp Gly Lys Pro Leu Pro Phe Gly Thr Glu Val Leu Asp Glu
 770 775 780
 His Gly Glu Ser Val Gly Tyr Val Gly Gln Ala Ser Val Leu Tyr Ile
 785 790 795 800
 Arg Ala Glu Arg Pro Pro Arg Ala Leu Asn Val His Leu Arg Gly Gly
 805 810 815
 Lys Cys Glu Ile Ser Ser Pro Ala Trp Gly Leu Asn Ser Pro Ser Ser
 820 825 830
 Val Cys His
 835

<210> 6046

<211> 360

<212> PRT

<213> Enterobacter cloacae

<400> 6046

Leu Arg Ile Ile Lys Met Leu Arg Ser Phe Met Phe Leu Leu Leu Thr
 1 5 10 15
 Ser Val Ser Gly Met Ser Tyr Ala Thr Cys Ser Gly Ser Ser Ile Val
 20 25 30
 Tyr Gly Thr Pro Ile Thr Ile Asp Leu Ser Asp Lys Leu Ser Pro Ala
 35 40 45
 Thr Pro Thr Trp Thr Gly Ser Phe Thr Thr Gln Tyr Ser Gly Ser Phe
 50 55 60
 Asn Cys Thr Thr Gly Asn Ser Glu Phe Ser Tyr Thr Pro Ile Leu Ser
 65 70 75 80
 Thr Asp Ser Lys Tyr Ala Thr Ile Leu Gly Phe Ser Asn Asn Lys Tyr

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<210> 6047
<211> 166
<212> PRT
<213> Enterobacter cloacae
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Asp	Leu	Ser	Phe	Asn	Glu	Leu	Asn	Asn	Leu	Leu	Asn	His	Lys	Gly	Met
1				5					10					15	
Glu	Arg	Gly	Gly	Pro	His	Arg	Phe	Thr	Ser	Leu	Cys	Lys	Thr	Leu	Asn
			20					25					30		
Val	Arg	Arg	Val	Leu	Leu	Cys	Pro	Glu	Leu	His	Tyr	Gly	Leu	Leu	Lys
			35				40					45			
Lys	Val	Leu	Glu	Met	Lys	Phe	Glu	Leu	Thr	Ile	Ser	Gln	Gln	Asp	Glu
	50					55					60				
Leu	Thr	Glu	Leu	Lys	Lys	Glu	Leu	Pro	Ala	Leu	Leu	Met	Ala	Asp	Gly
65					70					75					80
Gln	Lys	Pro	Ser	Ile	Tyr	Ser	Trp	Leu	Arg	Arg	Val	Met	Arg	Ser	Gly
				85					90					95	
Ser	Arg	Ala	Arg	Ser	Ile	Leu	Ser	Ala	Arg	Glu	Trp	Glu	Val	Leu	His
			100					105					110		
Leu	Ile	Val	Glu	Gly	Phe	Ser	Thr	Thr	Glu	Ile	Ala	Arg	His	Arg	Asn
			115				120					125			
Arg	Ser	Val	Ser	Thr	Ile	Ala	Thr	Gln	Lys	His	Asn	Ala	Met	Lys	Lys
	130					135					140				
Leu	Asn	Leu	Ser	Asn	His	Ser	Glu	Leu	Ile	Lys	Trp	Val	Gln	Thr	Val

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<210> 6048
<211> 515
<212> PRT
<213> Enterobacter cloacae
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Asn 1	Cys	Val	Ala	Ile 5	Thr	Phe	Pro	Pro	Gly 10	Trp	Asn	Cys	Ala	Gly 15	Lys
Cys	Ser	Phe	Arg	Arg	Arg	Ala	Ser	Arg	Arg	Ser	Thr	Lys	Lys	Arg	Val
Val	Pro	Ala	Gly	Lys	Val	Phe	Ala	Asn	Pro	Arg	Asn	Ala	Ala	Ala	Gly
Ser	Leu	Arg	Gln	Leu	Asp	Pro	Arg	Ile	Thr	Ala	Lys	Arg	Pro	Leu	Thr
Phe 65	Phe	Cys	Tyr	Gly	Val	Gly	Ile	Leu	Glu	Gly	Gly	Asp	Leu	Pro	Asp 80
Thr	His	Leu	Gly	Arg	Leu	Met	Gln	Phe	Lys	Glu	Trp	Gly	Leu	Pro	Val
Ser	Asn	Arg	Val	Gln	Leu	Cys	Asp	Ser	Pro	Glu	Ala	Val	Leu	Ala	Phe
Tyr	His	Lys	Val	Glu	Glu	Asp	Arg	Pro	Thr	Leu	Gly	Phe	Asp	Ile	Asp
Gly	Val	Val	Ile	Lys	Val	Asn	Ser	Leu	Ala	Leu	Gln	Glu	Gln	Leu	Gly
Phe 145	Val	Ala	Arg	Ala	Pro	Arg	Trp	Ala	Val	Ala	Phe	Lys	Phe	Pro	Ala
Gln	Glu	Gln	Met	Thr	Phe	Val	Arg	Asp	Val	Glu	Phe	Gln	Val	Gly	Arg
Thr	Gly	Ala	Ile	Thr	Pro	Val	Ala	Arg	Leu	Glu	Pro	Val	Gln	Val	Ala
Gly	Val	Leu	Val	Ser	Asn	Ala	Thr	Leu	His	Asn	Ala	Asp	Glu	Ile	Ala
Arg	Leu	Gly	Leu	Arg	Ile	Gly	Asp	Lys	Val	Val	Ile	Arg	Arg	Ala	Gly
Asp 225	Val	Ile	Pro	Gln	Val	Val	Asn	Val	Val	Glu	Ser	Glu	Arg	Pro	Ala
Asp	Thr	Arg	Ala	Ile	Glu	Phe	Pro	Ala	His	Cys	Pro	Val	Cys	Gly	Ser
Asp	Val	Glu	Arg	Val	Glu	Gly	Glu	Ala	Val	Thr	Arg	Cys	Thr	Gly	Gly
Leu	Ile	Cys	Gly	Ala	Gln	Arg	Lys	Glu	Ser	Leu	Lys	His	Phe	Val	Ser
Arg	Arg	Ala	Met	Asp	Val	Asp	Gly	Met	Gly	Asp	Lys	Ile	Ile	Asp	Gln
Leu 305	Val	Glu	Lys	Glu	Tyr	Val	His	Thr	Pro	Ala	Asp	Leu	Phe	Thr	Leu
Thr	Ala	Gly	Lys	Leu	Thr	Gly	Leu	Asp	Arg	Met	Gly	Pro	Lys	Ser	Ala
Gln	Asn	Ile	Val	Asn	Ala	Leu	Glu	Ala	Ala	Lys	Asn	Thr	Thr	Phe	Ala
Arg	Phe	Leu	Tyr	Ala	Leu	Gly	Ile	Arg	Glu	Val	Gly	Glu	Ala	Thr	Ala
Ala	Gly	Leu	Ala	Ala	Tyr	Phe	Gly	Thr	Leu	Asp	Ala	Leu	Glu	Lys	Ala
Thr 385	Ile	Asp	Glu	Leu	Gln	Lys	Val	Pro	Asp	Val	Gly	Ile	Val	Val	Ala
Thr	His	Val	Phe	Asn	Phe	Phe	Ala	Glu	Glu	Ser	Asn	Arg	Glu	Val	Ile

Gly Lys Leu Leu 405 Gln Gly Ile His 410 Trp Pro Ala Pro 415 Val Val Val
 420 425 430
 Asn Ala Glu Glu Ile Asp Ser Pro Phe Ala Gly Lys Thr Val Val Leu
 435 440 445
 Thr Gly Ser Leu Ser Gln Leu Ser Arg Asp Asp Ala Lys Ala Arg Leu
 450 455 460
 Val Ala Leu Gly Ala Lys Val Ala Gly Ser Val Ser Lys Lys Thr Asp
 465 470 475 480
 Leu Val Ile Ala Gly Glu Ala Ala Gly Ser Lys Leu Ala Lys Ala Gln
 485 490 495
 Glu Leu Gly Ile Glu Ile Ile Asp Glu Ala Glu Met Met Arg Leu Leu
 500 505 510
 Gly Glu
 515

<210> 6049

<211> 201

<212> PRT

<213> Enterobacter cloacae

<400> 6049

Trp Cys Asp Met Asp Ser Ile Glu Gln Gln Leu Thr Glu Leu Arg Thr
 1 5 10 15
 Thr Leu Arg His His Glu Tyr Leu Tyr His Val Met Asp Ala Pro Glu
 20 25 30
 Val Pro Asp Ala Glu Tyr Asp Arg Leu Met Arg Glu Leu Arg Glu Leu
 35 40 45
 Glu Ala Gln His Pro Glu Leu Ile Thr Pro Asp Ser Pro Thr Gln Arg
 50 55 60
 Val Gly Ala Glu Pro Leu Gly Ala Phe Ser Gln Val Arg His Glu Val
 65 70 75 80
 Pro Met Leu Ser Leu Asp Asn Val Phe Asp Glu Glu Ser Phe Leu Ala
 85 90 95
 Phe Asn Lys Arg Val Gln Asp Arg Leu Lys Ser Val Asp Asn Leu Ser
 100 105 110
 Trp Cys Cys Glu Leu Lys Leu Asp Gly Leu Ala Val Ser Ile Leu Tyr
 115 120 125
 Glu Asn Gly Val Met Val Arg Ala Ala Thr Arg Gly Asp Gly Thr Thr
 130 135 140
 Gly Glu Asp Ile Thr Thr Asn Val Arg Thr Ile Arg Ala Ile Pro Leu
 145 150 155 160
 Lys Leu Arg Gly Asp Asn Ile Pro Ala Arg Leu Glu Leu Arg Gly Glu
 165 170 175
 Val Phe Leu Pro Gln Ala Gly Phe Glu Lys Ile Asn Glu Glu Ala Arg
 180 185 190
 Arg Thr Gly Gly Glu Ser Val Cys
 195 200

<210> 6050

<211> 317

<212> PRT

<213> Enterobacter cloacae

<400> 6050

Ile Lys Gln Met Asn Tyr Ser Leu Arg Gln Leu Arg Val Phe Val Thr
 1 5 10 15
 Val Ala Gln Ala Arg Ser Phe Ser Arg Ala Gly Glu Ile Ile Gly Leu
 20 25 30
 Ser Gln Ser Ala Val Ser His Ser Val Lys Glu Leu Glu Thr Gln Thr
 35 40 45

Gly	Val	Lys	Leu	Leu	Asp	Arg	Thr	Thr	Arg	Glu	Val	Val	Leu	Thr	Glu
50						55				60					
Ala	Gly	Gln	Gln	Leu	Ala	Met	Arg	Leu	Glu	Arg	Leu	Leu	Asp	Glu	Leu
65					70				75						80
Asn	Ser	Thr	Leu	Arg	Asp	Val	Gly	Arg	Leu	Gly	Gln	Gln	Leu	Ser	Gly
			85						90					95	
Thr	Val	Arg	Val	Ala	Ala	Ser	Gln	Thr	Ile	Ser	Ala	His	Leu	Ile	Pro
			100					105					110		
Gln	Cys	Ile	Ala	Glu	Ser	Asn	His	Arg	Tyr	Pro	Asp	Ile	Asp	Phe	Val
		115					120					125			
Leu	His	Asp	Arg	Pro	Gln	Gln	Trp	Val	Leu	Glu	Ser	Ile	Arg	Gln	Gly
		130				135					140				
Asp	Val	Asp	Phe	Gly	Ile	Val	Ile	Asp	Pro	Gly	Ala	Val	Ser	Asp	Leu
145					150					155					160
Glu	Cys	Glu	Val	Val	Leu	Ser	Glu	Pro	Phe	Leu	Leu	Leu	Cys	Arg	Asp
					165				170					175	
Asp	Asp	Pro	Leu	Ala	Ser	Leu	Pro	Gln	Val	Ala	Trp	Gln	Ala	Leu	Gln
			180					185					190		
Gly	Ala	Asn	Leu	Val	Leu	Gln	Asp	Tyr	Ala	Ser	Gly	Ser	Arg	Pro	Leu
		195					200					205			
Ile	Asp	Ala	Ala	Leu	Thr	Ala	Gln	Gly	Val	Lys	Ala	Thr	Ile	Val	Gln
		210					215				220				
Glu	Ile	Gly	His	Pro	Ala	Thr	Leu	Phe	Pro	Met	Val	Glu	Ala	Gly	Ile
225					230					235					240
Gly	Ile	Ser	Val	Leu	Pro	Ala	Leu	Ala	Leu	Pro	Leu	Pro	Gln	Gly	Ser
					245				250					255	
Arg	Leu	Thr	Val	Lys	Arg	Phe	Val	Pro	Cys	Val	Glu	Arg	Gln	Leu	Met
			260					265					270		
Leu	Val	Arg	Arg	Lys	Asn	Arg	Ser	Leu	Ser	Gly	Ala	Ala	His	Ala	Cys
			275				280					285			
Trp	Asp	Val	Val	Arg	Met	Gln	Ala	Glu	Arg	Leu	Met	Glu	Ala	Arg	Thr
	290					295				300					
Arg	Asp	Pro	Leu	Phe	Asn	Glu	Thr	Asn	Asn	Gln	Thr				
305					310					315					

<210> 6051

<211> 340

<212> PRT

<213> Enterobacter cloacae

<400> 6051

Arg	His	Leu	Phe	Ser	Gly	Val	Ile	Met	Lys	Leu	Phe	Arg	Ile	Leu	Asp
1				5					10					15	
Pro	Phe	Thr	Leu	Thr	Leu	Ile	Gly	Val	Val	Leu	Leu	Ala	Ser	Phe	Phe
			20					25					30		
Pro	Ala	Arg	Gly	Ser	Phe	Val	Pro	Val	Ile	Glu	Gly	Leu	Thr	Thr	Ala
		35					40					45			
Ala	Ile	Ala	Leu	Leu	Phe	Phe	Met	His	Gly	Ala	Lys	Leu	Ser	Arg	Glu
		50				55					60				
Ala	Ile	Ile	Ala	Gly	Gly	Ser	His	Trp	Arg	Leu	His	Leu	Trp	Val	Met
65					70					75					80
Cys	Ser	Thr	Phe	Ile	Leu	Phe	Pro	Val	Leu	Gly	Val	Leu	Phe	Ala	Trp
			85						90					95	
Trp	Ala	Pro	Val	Asn	Val	Asp	Pro	Ala	Leu	Tyr	Thr	Gly	Phe	Leu	Tyr
			100					105					110		
Leu	Cys	Ile	Leu	Pro	Ala	Thr	Val	Gln	Ser	Ala	Ile	Ala	Phe	Thr	Ser
		115					120					125			
Leu	Ala	Gly	Gly	Asn	Val	Ala	Ala	Ala	Val	Cys	Ser	Ala	Ser	Ala	Ser
		130				135					140				
Ser	Leu	Leu	Gly	Ile	Phe	Val	Ser	Pro	Leu	Leu	Val	Gly	Leu	Leu	Met
145					150					155					160

Asn Met His Gly Ala Glu Gly Asn Leu Glu Gln Val Gly Lys Ile Cys
 165 170 175
 Leu Gln Leu Leu Leu Pro Phe Val Leu Gly His Leu Ser Arg Pro Trp
 180 185 190
 Ile Gly Glu Phe Val Ala Lys His Lys Lys Trp Ile Gly Lys Thr Asp
 195 200 205
 Gln Ser Ser Ile Leu Leu Val Val Tyr Thr Ala Phe Ser Glu Ala Val
 210 215 220
 Val Asn Gly Ile Trp His Arg Val Gly Ala Gly Ser Leu Leu Phe Ile
 225 230 235 240
 Val Val Val Ser Ile Val Leu Leu Ala Ile Val Ile Ala Val Asn Val
 245 250 255
 Phe Val Ala Arg Lys Cys Gly Phe Asn Lys Ala Asp Glu Ile Thr Ile
 260 265 270
 Val Phe Cys Gly Ser Lys Lys Ser Leu Ala Asn Gly Ile Pro Met Ala
 275 280 285
 Asn Ile Leu Phe Pro Thr Ser Val Ile Gly Met Met Val Leu Pro Leu
 290 295 300
 Met Ile Phe His Gln Ile Gln Leu Met Val Cys Ala Val Leu Ala Arg
 305 310 315 320
 Arg Tyr Lys Ala Gln Thr Glu Lys Leu Ala Gln Glu Glu Thr His Ala
 325 330 335
 Ala Lys Val
 340

<210> 6052

<211> 529

<212> PRT

<213> Enterobacter cloacae

<400> 6052

Leu Ser Ser Gly Ile Ser Gly Ile Thr Thr Ser Met Leu Thr Arg Tyr
 1 5 10 15
 Phe Ser Ser Asn Arg Lys Ile Leu Phe Ile Ser Phe Leu Thr Gly Leu
 20 25 30
 Phe Thr Ala Leu Leu Leu Gly Ala Leu Gln Phe Tyr Trp Ser Tyr His
 35 40 45
 Lys Arg Asp Val Arg Phe Asp Thr Leu Ile Thr Asp Leu Ser Val Tyr
 50 55 60
 Met Glu Ser Tyr Phe Asp Glu Leu Lys Met Ser Ile Asp Thr Leu Gln
 65 70 75 80
 Pro Leu Thr Leu Asn Ser Cys Glu Glu Val Ser Ala Ala Leu Thr Ser
 85 90 95
 Arg Ala Ala Phe Ser Ile Asn Val Arg Ala Phe Leu Leu Val Arg Asp
 100 105 110
 Lys Gln Ala Phe Cys Ser Ser Ala Thr Gly Pro Met Asn Thr Pro Met
 115 120 125
 Glu Lys Leu Ile Pro Gln Leu His Ile Ser Lys Pro Val Asp Ile Ala
 130 135 140
 Leu Leu Pro Gly Thr Pro Met Leu Pro Asp Lys Pro Ala Ile Ala Ile
 145 150 155 160
 Trp Tyr Arg Asn Pro Leu Val Lys Asp Gly Gly Val Phe Thr Ser Val
 165 170 175
 Asn Leu Asn Leu Ser Pro Tyr Leu Leu Tyr Thr Ser Arg Gln Asp Glu
 180 185 190
 Phe Ala Gly Ile Ser Ile Val Ile Gly Asp Ser Ala Leu Ser Thr Gln
 195 200 205
 Ser Gly Met Leu Ile Gln Ala Arg Asp Leu Pro Asp Val Pro Ala Arg
 210 215 220
 Ser Ala Thr Leu Lys Asn Ile Pro Leu Thr Val Asn Val Tyr Ala Gln
 225 230 235 240

Ala Trp Thr Thr Asp Glu Leu Leu Tyr Ala Val Phe Phe Gly Leu Val
 245 250 255
 Cys Gly Ile Ala Gly Leu Leu Asn Phe Tyr Ile Leu Thr Ile Arg
 260 265 270
 Leu Asn Pro Gly Lys Glu Ile Leu Thr Ala Ile Lys His Asp Gln Phe
 275 280 285
 Tyr Val Val Tyr Gln Pro Val Val Asp Ala Gln Ser Leu Arg Met Thr
 290 295 300
 Gly Leu Glu Val Leu Met Arg Trp Lys His Pro Val Met Gly Glu Ile
 305 310 315 320
 Pro Pro Asp Ala Phe Ile Asn Phe Ala Glu Ala Gln Lys Leu Ile Val
 325 330 335
 Pro Leu Thr Leu His Leu Phe Asp Leu Ile Ile Arg Asp Ala Pro Val
 340 345 350
 Leu Gln Thr Val Leu Pro Pro Gly Ala Lys Phe Gly Ile Asn Ile Ala
 355 360 365
 Pro Gly His Leu His Ala Glu Ser Phe Lys Glu Asp Met Arg Ala Phe
 370 375 380
 Leu Ala Ala Leu Pro Pro Asp His Phe Gln Ile Val Leu Glu Ile Thr
 385 390 395 400
 Glu Arg Asp Met Ile Asn His Arg Glu Ala Asn Gln Leu Phe Glu Trp
 405 410 415
 Val His Asn Glu Gly Phe Glu Ile Thr Ile Asp Asp Phe Gly Thr Gly
 420 425 430
 His Ser Ala Leu Ile Tyr Leu Glu Arg Phe Thr Met Asp Tyr Leu Lys
 435 440 445
 Ile Asp Arg Gly Phe Val Asn Ala Ile Gly Thr Glu Thr Val Thr Ser
 450 455 460
 Pro Val Leu Asp Ala Val Leu Thr Leu Ala Glu Arg Leu Asn Met Ile
 465 470 475 480
 Thr Val Ala Glu Gly Val Glu Thr Pro Glu Gln Ala Ala Trp Leu Arg
 485 490 495
 Glu His Gly Val Asn Tyr Leu Gln Gly Tyr Trp Ile Gly Arg Pro Met
 500 505 510
 Pro Leu Glu Gln Phe Arg Thr Trp Gln Pro Asp Ile Thr Leu Gly Glu
 515 520 525

<210> 6053

<211> 627

<212> PRT

<213> Enterobacter cloacae

<400> 6053

Phe His Asn His Gly Ala Val Pro Tyr Tyr Ser Val Gln Pro Ser Leu
 1 5 10 15
 Ser Val Asn Lys Gly Ile Arg Arg Thr Met Ile Met Arg Val Val Leu
 20 25 30
 Thr Leu Leu Ala Leu Val Ser Leu Ser Ser Gln Ala Gln Thr Ile Lys
 35 40 45
 Glu Ser Thr Ala Phe Ala Val Ile Gly Glu Pro Lys Tyr Ala Val Asn
 50 55 60
 Phe Asn His Tyr Asp Tyr Val Asn Pro Ala Ala Pro Lys Gly Gly Asn
 65 70 75 80
 Val Thr Leu Ser Ala Thr Gly Thr Phe Asp Asn Phe Asn Arg Phe Ala
 85 90 95
 Leu Arg Gly Val Ala Ala Ala Arg Thr Glu Ser Leu Tyr Asp Thr Leu
 100 105 110
 Phe Val Thr Ser Asp Asp Glu Pro Gly Ser Tyr Tyr Pro Leu Val Ala
 115 120 125

Glu	Asn	Val	Arg	Tyr	Ala	Glu	Asp	Phe	Ser	Trp	Val	Glu	Ile	Ala	Ile
	130					135					140				
Asn	Pro	Arg	Ala	Arg	Phe	His	Asp	Gly	Thr	Pro	Val	Ser	Ala	Arg	Asp
145					150					155					160
Val	Ala	Phe	Thr	Phe	His	Lys	Phe	Met	Thr	Glu	Gly	Val	Pro	Gln	Phe
				165					170					175	
Arg	Leu	Val	Tyr	Lys	Gly	Thr	Thr	Val	Lys	Ala	Ile	Ala	Pro	Leu	Thr
			180					185					190		
Val	Arg	Ile	Glu	Leu	Pro	Glu	Ala	Asn	Lys	Glu	Asn	Met	Leu	Ser	Leu
	195						200					205			
Phe	Ser	Leu	Pro	Val	Met	Pro	Glu	Ser	Phe	Trp	Lys	Asn	His	Lys	Leu
	210					215					220				
Ser	Asp	Pro	Leu	Ser	Thr	Pro	Pro	Leu	Ala	Gly	Gly	Pro	Tyr	Arg	Ile
225					230					235					240
Thr	Asp	Trp	Arg	Met	Gly	Gln	Tyr	Val	Ile	Tyr	Ser	Arg	Val	Lys	Asp
				245					250					255	
Tyr	Trp	Ala	Ala	Thr	Leu	Pro	Val	Asn	Arg	Gly	Arg	Trp	Asn	Phe	Asp
				260				265					270		
Thr	Ile	Arg	Tyr	Asp	Tyr	Tyr	Leu	Asp	Asp	Asn	Val	Ala	Phe	Glu	Ala
		275					280					285			
Phe	Lys	Ala	Gly	Ala	Phe	Asp	Leu	Arg	Val	Glu	Asn	Ser	Ala	Lys	Asn
	290					295					300				
Trp	Ala	Thr	Arg	Tyr	Ile	Gly	Lys	Asn	Phe	Ala	Lys	Gly	Tyr	Ile	Val
305					310					315					320
Lys	Asp	Glu	His	Lys	Asn	Glu	Ser	Ala	Gln	Asp	Thr	Arg	Trp	Leu	Ala
				325					330					335	
Phe	Asn	Ile	Gln	Arg	Pro	Val	Phe	Ser	Asp	Arg	Arg	Val	Arg	Glu	Ala
			340					345					350		
Ile	Thr	Leu	Ala	Phe	Asp	Phe	Glu	Trp	Met	Asn	Lys	Ala	Leu	Phe	Tyr
		355					360					365			
Gly	Ala	Tyr	Ser	Arg	Ala	Asn	Ser	Tyr	Phe	Gln	Asn	Thr	Glu	Tyr	Ala
	370					375					380				
Ala	Arg	Asp	Tyr	Pro	His	Ala	Asp	Glu	Leu	Val	Leu	Leu	Ala	Pro	Leu
385					390					395					400
Lys	Ala	Glu	Leu	Pro	Pro	Glu	Val	Phe	Thr	Arg	Ile	Phe	Glu	Pro	Pro
				405					410					415	
Lys	Ser	Asp	Gly	Asn	Gly	Phe	Asp	Arg	Asp	Asn	Leu	Leu	Lys	Ala	Ser
			420					425					430		
Ser	Leu	Leu	Asp	Asp	Ala	Gly	Trp	Val	Leu	Lys	Asn	Arg	Gln	Arg	Val
		435					440					445			
Asn	Ala	Gln	Thr	Gly	Lys	Pro	Leu	Ser	Phe	Glu	Leu	Leu	Ile	Ala	Ser
	450					455					460				
Gly	Ala	Asn	Asp	Gln	Trp	Val	Leu	Pro	Phe	Lys	Lys	Asn	Leu	Ala	Arg
465					470					475					480
Leu	Gly	Val	Thr	Met	Asn	Ile	Arg	Gln	Val	Asp	Met	Ala	Gln	Leu	Thr
				485					490					495	
Asn	Arg	Lys	Arg	Ser	Arg	Asp	Tyr	Asp	Met	Met	Gln	Thr	Leu	Trp	Ala
		500						505					510		
Ala	Gln	Pro	Trp	Pro	Ser	Ser	Asp	Leu	Gln	Ile	Ser	Trp	Ala	Ser	Gly
		515					520					525			
Tyr	Ile	Asp	Ser	Ser	Tyr	Asn	Ala	Pro	Gly	Val	Lys	Ser	Pro	Val	Ile
	530					535					540				
Asp	Ala	Leu	Ile	Ala	Lys	Ile	Val	Ala	Ala	Gln	Gly	Asp	Lys	Asn	Lys
545					550					555					560
Leu	Leu	Pro	Leu	Gly	Arg	Ala	Leu	Asp	Arg	Val	Leu	Thr	Trp	Asn	Tyr
				565					570					575	
Tyr	Met	Leu	Pro	Met	Trp	Tyr	Met	Gly	Glu	Asp	Arg	Val	Ala	Arg	Trp
			580					585					590		
Asp	Lys	Phe	Ser	Leu	Pro	Ala	Val	Arg	Pro	Val	Tyr	Thr	Leu	Gly	Phe
		595					600					605			
Asp	Thr	Trp	Trp	Tyr	Asp	Val	Asn	Lys	Ala	Val	Lys	Leu	Pro	Ala	Glu

610
Arg Arg
625

615

620

<210> 6054
<211> 278
<212> PRT
<213> Enterobacter cloacae

<400> 6054
Gly Val Thr Met Gly Ala Tyr Leu Ile Arg Arg Leu Leu Leu Val Ile
1 5 10 15
Pro Thr Leu Trp Ala Ile Ile Thr Ile Asn Phe Phe Ile Val Gln Ile
20 25 30
Ala Pro Gly Gly Pro Val Asp Gln Ala Ile Ala Ala Ile Glu Phe Gly
35 40 45
His Ala Gly Gly Met Pro Gly Gly Gly Gly Glu Gly Met Gly Ala Ser
50 55 60
His Ala Arg Thr Gly Val Gly Asn Ile Ser Glu Ser His Tyr Arg Gly
65 70 75 80
Gly Arg Gly Leu Asp Pro Glu Val Ile Ala Glu Ile Thr His Arg Tyr
85 90 95
Gly Phe Asp Lys Pro Leu His Glu Arg Tyr Cys Arg Met Leu Trp Asp
100 105 110
Tyr Val Arg Phe Asp Phe Gly Asp Ser Leu Phe Arg Ser Ala Ser Val
115 120 125
Leu Thr Leu Ile Lys Gln Ser Leu Pro Val Ser Ile Thr Leu Gly Leu
130 135 140
Trp Gly Thr Leu Ile Ile Tyr Leu Val Ser Ile Pro Leu Gly Ile Arg
145 150 155 160
Lys Ala Val Tyr Asn Gly Ser Arg Phe Asp Ile Trp Ser Ser Thr Phe
165 170 175
Ile Ile Ile Gly Tyr Ala Ile Pro Ala Phe Leu Phe Ala Val Leu Leu
180 185 190
Ile Val Phe Phe Ala Gly Gly Ser Tyr Phe Asp Leu Phe Pro Leu Arg
195 200 205
Gly Leu Val Ser Ala Asp Phe Ser Thr Leu Pro Trp Tyr Gln Lys Ile
210 215 220
Thr Asp Tyr Phe Trp His Ile Thr Leu Pro Val Leu Ala Thr Val Ile
225 230 235 240
Gly Gly Phe Ala Ala Leu Thr Met Leu Thr Lys Asn Ala Phe Leu Asp
245 250 255
Glu Ile Arg Lys Gln Tyr Val Val Thr Ala Arg Ala Lys Gly Val Gly
260 265 270
Glu Lys Gln Ile Gly
275

<210> 6055
<211> 98
<212> PRT
<213> Enterobacter cloacae

<400> 6055
His Ile Cys Gly Ser Ala Pro Leu Ser Lys Arg Arg Gly Pro Ser Gly
1 5 10 15
Leu Asn Leu Pro Arg Ser Thr Tyr Glu Gln Gln Glu Met Gly Lys Ser
20 25 30
Ile Ser Arg Thr Lys Leu Arg Thr Gly Asp Leu Val Leu Phe Arg Ala
35 40 45
Gly Ser Thr Gly Arg His Val Gly Ile Tyr Ile Gly Asn Asp Gln Phe
50 55 60

Val His Ala Ser Thr Ser Ser Gly Val Thr Ile Ser Ser Met Asn Glu
 65 70 75 80
 Pro Tyr Trp Lys Lys Arg Tyr Asn Glu Ala Arg Arg Val Leu Ser Arg
 85 90 95
 Ser

<210> 6056

<211> 504

<212> PRT

<213> Enterobacter cloacae

<400> 6056

Pro Gly Arg Thr Ser Thr Ile Met Glu Leu Asn Val Pro Gln Val Ala
 1 5 10 15
 Ala Cys Ile Ile Asn Ser Gln Asp Trp Asp Val Met Lys Lys Gly Leu
 20 25 30
 Ser Val Trp Pro Ala Leu Ser Thr Val Ala Tyr Gly Val Phe Ser Ala
 35 40 45
 Leu Phe Tyr Ala Phe Gly Val His Ala Asp Asp Asp Ile Gln Phe Asp
 50 55 60
 Ser Asn Phe Leu Arg Ile Ser His Pro Glu Asn Val Asp Leu Ser Ala
 65 70 75 80
 Tyr Met Asn Asn Ala Leu Pro Ala Gly Arg Tyr Arg Ala Asp Ile Tyr
 85 90 95
 Leu Asn Asp Lys Leu Val Met Ile Asp Asp Ile Arg Ile Ser Gly Lys
 100 105 110
 Asp Ala Arg Ser Gln Arg Ile Leu Leu Ser Gln Ala Thr Val Thr Gly
 115 120 125
 Leu Gln Leu Lys Lys Ser Arg Leu Cys Ala Thr Asn Ala Gly Gln Trp
 130 135 140
 Cys Asp Leu Gln Ala Val Leu Pro Glu Ser Arg Leu Lys Phe Asn Gly
 145 150 155 160
 Gly Arg Gln Arg Leu Asp Val Ser Ile Pro Gln Ala Met Leu Gln His
 165 170 175
 Val Ala Arg Gly Ser Val Asn Pro Val Leu Trp Asp Ala Gly Ile Pro
 180 185 190
 Ala Leu Met Leu Gly Tyr Asn Val Asn Gly Tyr Arg Ser Glu Asn Ser
 195 200 205
 Ser Gly Glu Tyr Asn Asn Leu Tyr Ala Ala Leu Asn Gly Gly Leu Asn
 210 215 220
 Ile Gly Ala Trp Tyr Phe Arg His Asn Gly Thr Leu Ser Trp Gln Gln
 225 230 235 240
 Gln Asn Gly Thr Gln Gln Lys Lys Tyr Thr Val Leu Asn Ser Tyr Val
 245 250 255
 Gln His Pro Leu Ala Gly Ile Glu Gly Asn Leu Ile Leu Gly Glu Ser
 260 265 270
 Asn Thr Ser Gly Gln Leu Phe Asp Ser Val Ser Phe Thr Gly Ala Ser
 275 280 285
 Val Ala Ser Asp Asp Arg Met Leu Pro Ala Ser Arg Arg Gly Tyr Ala
 290 295 300
 Pro Glu Ile Arg Gly Val Ala Gln Thr Asn Ala Lys Val Thr Ile Arg
 305 310 315 320
 Gln Asn Gly Lys Val Ile Tyr Glu Thr Thr Val Ser Pro Gly Ala Phe
 325 330 335
 Val Ile Asn Asp Leu Tyr Pro Ser Gly Tyr Gly Gly Asp Leu Asn Val
 340 345 350
 Thr Val Arg Glu Ala Asp Gly Ser Gln His Phe Phe Asp Val Pro Tyr
 355 360 365
 Ala Ser Val Ala Gln Leu Leu Arg Pro Gly Ala Ser Arg Tyr Ser Ala
 370 375 380

Thr Ala Gly Arg Leu Arg Gly Asp Tyr Leu Ser Glu Arg Pro Ala Phe
 385 390 395 400
 Ser Glu Val Thr Tyr Gln Arg Gly Leu Thr Asn Ser Leu Thr Gly Ser
 405 410 415
 Gly Gly Ile Gln Ala Thr Ser Phe Tyr Gln Ala Met His Ala Gly Leu
 420 425 430
 Ala Val Gly Thr Ala Val Gly Thr Val Ser Leu Asp Thr Thr Trp Ser
 435 440 445
 Gln Thr Gln Val Arg Glu Lys Thr Thr Arg Gly Arg Lys His Gln Val
 450 455 460
 Glu Leu Gln Gln Ile Tyr Ser Arg Lys Pro Asp Ala Val Phe Thr Gly
 465 470 475 480
 His Leu Ala Ile Phe Asp Gly Glu Leu Ser Phe Ser Asp Gly Cys His
 485 490 495
 Pro Val Thr Ser Ala Ala Ala
 500

<210> 6057

<211> 200

<212> PRT

<213> Enterobacter cloacae

<400> 6057

Leu Ile Arg Arg Asn Asn Val Arg Lys Leu Met Lys Val Leu Val Cys
 1 5 10 15
 Val Phe Thr Asp Asn Glu Phe Phe Phe Ser Ala Met Met Glu Leu Leu
 20 25 30
 Ser Ser His Thr Leu Leu Ala Glu Lys Tyr Thr Leu Cys Lys Ile Arg
 35 40 45
 Ser Asp Glu Ile Gly Ala Trp Met His Thr Ala Asp Asn Asn Met Met
 50 55 60
 Ile Met Ala Gly Pro Asp Met Glu Ser Leu Val Arg Phe Phe Cys Leu
 65 70 75 80
 Glu Lys Arg Trp Asp Tyr Leu Thr Thr Arg Phe Ser Ala Ser Glu Met
 85 90 95
 Gln Asp Phe Leu Ala Gln Lys Ile Asn Arg Gln His Glu Val Lys Lys
 100 105 110
 Asn Leu Ile Arg Thr Arg Thr His Leu Lys Leu Ser Lys Gln Glu Leu
 115 120 125
 Asn Val Leu Ser Trp Phe Met His Gly Leu Ser Pro Tyr Ser Met Ser
 130 135 140
 Arg Tyr Tyr Gly Leu Ser Val Lys Thr Ile Ser Thr Phe Lys Arg Arg
 145 150 155 160
 Leu Met Asp Lys Leu Tyr Ile Lys Ser Asp Ala Glu Leu Phe Arg Val
 165 170 175
 Gly Trp Thr Tyr Lys Met Tyr Gln Asn Ser Gly His Leu Arg Gly Arg
 180 185 190
 Asp Glu Asn Phe Arg Met Asp
 195 200

<210> 6058

<211> 403

<212> PRT

<213> Enterobacter cloacae

<400> 6058

Glu Lys Lys Gln Pro Gly Gly Glu Ser Ile Arg Leu Ser Tyr Ser Lys
 1 5 10 15
 Tyr Ile Pro Ala Ser Arg Thr Gln Phe Ser Leu Ala Thr Trp Arg Tyr
 20 25 30
 Ser Thr Gly Asn Tyr Leu Ser Leu Met Asp Ala Thr Leu Leu His Gln

35 40 45
 Gln Arg Pro Asp Glu Thr Ala Asp Gly His Thr Gly Arg Thr Arg Asn
 50 55 60
 Arg Val Thr Leu Thr Leu Asn Gln Gly Leu Pro Asp Lys Trp Gly Gln
 65 70 75 80
 Leu Tyr Val Thr Gly Ile Leu Gln Asp Tyr Trp Gly Arg Lys Gly Tyr
 85 90 95
 Asp Gln Gln Tyr Gln Ala Gly Tyr Thr Leu Thr Thr Gly Arg Val Asn
 100 105 110
 Trp Ser Leu Gly Val Asn Arg Ser Arg Ser Ser Gly Gly Glu Phe Gln
 115 120 125
 Asn Ile Trp Thr Leu Ser Phe Asn Met Pro Leu Gly Ser Ala Ser Thr
 130 135 140
 Pro Leu Leu Thr Gly Gln Val Ser Arg Asp Gly Gln Gly His Phe Ser
 145 150 155 160
 Glu Gln Val Ala Leu Ser Gly Ser Ala Gly Glu Arg Gln Gln Phe Ser
 165 170 175
 Trp Asn Ala Gly Ala Ser His Gln Tyr His Ser Gly Asp Ser Gly Gln
 180 185 190
 Ile Gly Gly Ser Trp Thr Gly Pro Val Ser Thr Leu Thr Ala Asn Tyr
 195 200 205
 Ala Gln Gly Lys Ala Trp Lys Ser Gly Ser Val Gly Val Ser Gly Thr
 210 215 220
 Ala Val Ala His Ser Asp Gly Val Thr Phe Ser Pro Trp Thr Gly Asn
 225 230 235 240
 Thr Phe Ala Leu Val Glu Ala Lys Gly Ala Glu Gly Ala Glu Ile Pro
 245 250 255
 Gly Tyr Ala Gly Thr Arg Val Asp Gly Ser Gly Tyr Ala Leu Val Pro
 260 265 270
 Asn Leu Met Pro Tyr Gln Lys Asn Ala Ile Ser Ile Asp Thr Thr Ser
 275 280 285
 Val Glu Asp Asp Leu Asp Leu Asp Ser Thr Ser Gln Gln Val Ile Pro
 290 295 300
 Tyr Ala Gly Ala Val Val Lys Val Lys Tyr Arg Ala Thr Ala Gly Val
 305 310 315 320
 Pro Val Leu Ile Lys Val Thr Arg Ser Asn Gly Glu Gly Val Pro Phe
 325 330 335
 Ser Ala Arg Ala Thr Asp Ala Asn Lys Asn Ile Val Gly Tyr Val Gly
 340 345 350
 Gln Gly Ser Arg Leu Tyr Ala Arg Leu Ala Gln Gln Asn Gly Val Val
 355 360 365
 Glu Leu Arg Trp Ala Glu Gly Glu Gly Ala Arg Cys Lys Met Lys Tyr
 370 375 380
 Ser Leu Pro Ser Thr Ala Gly Lys Lys Leu Leu Ile Phe Asn Ala Ile
 385 390 395 400
 Cys Asn

<210> 6059

<211> 387

<212> PRT

<213> Enterobacter cloacae

<400> 6059

Glu Gly Glu Met Lys Ile Ser Gly Trp Ile Ser Val Ala Thr Phe Phe
 1 5 10 15
 Cys Leu Leu Ile Phe Ser Asn Ala Ala Met Ala Glu Thr Cys Ser Leu
 20 25 30
 Asp Ser Ala Ser Val Phe Lys Thr Ala Ser Asn Val Ser Met Pro Leu
 35 40 45
 Asn Ile Ser Ser Ile Ala Val Ser Asn Asp Ile Pro Asp Gly Thr Ile

```

      50      55      60
Ile Tyr Gln Gln Lys Tyr Ile Pro Gly Tyr Ser Ser Ile Ser Val Asn
65      70      75      80
Cys Asp Glu Ser Arg Ser Trp Tyr Tyr Val Met Ser Leu Thr Asn Thr
      85      90      95
Pro Met Pro Leu Ser Ser Trp Thr Gly Thr Ile Ile Ser His Glu Ser
      100      105      110
Trp Val Ala Glu Tyr Ser Trp Asp Gly Tyr Ile Tyr Glu Thr Gly Ile
      115      120      125
Pro Gly Ile Gly Ile Thr Ile Ser Met Met Ser Val Arg Arg Pro Ala
      130      135      140
Pro Gly Ile Val Gly Thr Asn Cys Phe Ala Ser Lys Ser Cys Thr Asp
145      150      155      160
Thr Gly Met Lys Ala Arg Ala Ile Ile Ala Leu Val Lys Thr Gly Pro
      165      170      175
Ile Ser Ala Gly Val Ile Asn Ala Gly Asn Phe Pro Thr Met Lys Val
      180      185      190
Ala Leu Gly Arg Glu Ala Thr Asn Ile Thr Leu Tyr Thr Leu Ser Phe
      195      200      205
Thr Gly Ser Leu Asn Val Thr Leu Pro Thr Cys Thr Thr Pro Asp Phe
      210      215      220
Asn Val Ser Leu Gly Lys Trp Thr Thr Glu His Phe Thr Gly Lys Gly
225      230      235      240
Ser Ser Thr Pro Trp Val Ala Ala Asn Ile Val Leu Ser Asn Cys Gly
      245      250      255
Asp Phe Ile Gly Ser Asn Val Ser Gly Asp Met Ser Asp Gly Asn Tyr
      260      265      270
Trp Ser Asp Asn Gly Ser Ser Phe Ser Ser Thr Met Gln Trp Asn Thr
      275      280      285
Trp Ser Ile Thr Leu Ser Pro Val Ser Ser Val Leu Asp Ser Ala Ser
      290      295      300
Gly Ile Met Ser Val Asp Thr Ser Val Pro Ser Ala Ala Thr Gly Ile
305      310      315      320
Gly Ile Gln Ile Ser Ser Gly Asp Thr Thr Ser Ala Asp Ser His Ile
      325      330      335
Ile Asp Phe Gly Asn Ala Leu Thr Gly Thr Phe Asn Ser Asp Gly Ser
      340      345      350
Ser Ser Val Thr Ile Pro Leu Ser Ala Arg Tyr Ile Gln Thr Glu Asp
      355      360      365
Ser Val Thr Ala Gly Met Ala Asn Gly Lys Leu Val Tyr Thr Ile Ser
      370      375      380
Tyr Tyr
385

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<210> 6060

<211> 405

<212> PRT

<213> Enterobacter cloacae

<400> 6060

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Gln Val Met Ile Lys Lys Lys Gly Leu Gly Phe Asn Ala Ile Thr Ala
1      5      10      15
Leu Ile Met Leu Thr Thr Ser Asn Cys Val Ile Ala Glu Glu Tyr Gln
      20      25      30
Leu Pro Ala Thr Ile Asn Asn Pro Val Val Met Pro Val Gly Ala Asp
      35      40      45
Gly Phe Gln Asn Gly Ala Ala Lys Ala Ile Ile Pro Gly Gln Ala Gly
      50      55      60
Ser Glu Gln Ser Gly Ala Gln Thr Asn Leu Ser Glu Ala Gly Asn Ala
      65      70      75      80
Gln Gly Gln Lys Pro Thr Thr Asp Leu Pro Thr Val Gln Leu Ser Pro

```

```
<210> 6061
<211> 301
<212> PRT
<213> Enterobacter cloacae
```

<400>	6061															
Lys	Ser	Tyr	His	Arg	Arg	Val	Lys	Leu	Met	Ile	Lys	Asn	Asn	Glu	Leu	
1				5				10						15		
Ile	His	Pro	Phe	Asp	Val	Thr	Ser	Asn	Glu	Ser	Gly	Lys	Thr	Tyr	Gln	
			20					25					30			
Leu	Thr	Pro	Asn	Ser	Ser	Lys	Ser	Val	Gln	Pro	Val	Ala	Leu	Leu	Arg	
		35					40					45				
Leu	Ser	Val	Phe	Thr	Pro	Val	Gly	Thr	Lys	Glu	Asn	Arg	Asp	Arg	Asn	
	50					55					60					
Phe	Glu	Val	Asp	Ala	Ser	Asp	Glu	Leu	Ser	Cys	Met	Glu	Ile	Ala	Arg	
65				70					75					80		
Ser	Glu	Gly	Tyr	Asp	Ile	Lys	Ile	Thr	Gly	Val	Lys	Leu	Ser	Met		
				85				90					95			
Ser	Thr	Asp	Phe	Lys	Cys	Trp	Leu	Gly	Ile	Ile	Met	Ala	Phe	Ser	Lys	

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<210> 6062
<211> 263
<212> PRT
<213> Enterobacter cloacae
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Met	Lys	Met	Leu	Ser	Gly	Ile	Asn	Ile	Pro	Phe	Phe	Lys	Lys	Ser	Lys
1				5					10					15	
Lys	Asp	Glu	Asn	Gly	Asp	Leu	Glu	Gln	Ser	Tyr	Val	Lys	Lys	Asp	Glu
			20					25					30		
Ser	Ala	Lys	Gly	Arg	Phe	Leu	Asp	Ile	Lys	Lys	Arg	Phe	Ser	Pro	Gln
		35					40					45			
Ala	Glu	Ala	Ser	Gly	Ala	Gly	Ile	Thr	Tyr	Ser	Ala	Leu	Ile	Asn	Arg
	50					55					60				
Asp	Thr	Lys	Leu	Ile	Arg	Ile	Asn	Thr	Val	Ser	Ile	Ala	Val	Ile	Gly
65					70					75					80
Leu	Leu	Val	Ala	Lys	Ile	Leu	Phe	Phe	Thr	Asp	Pro	Val	Thr	Ile	Val
				85					90					95	
Thr	Pro	Pro	Asn	Met	Asn	Glu	Glu	Ile	Thr	Val	Val	Gly	Asn	Lys	Ala
			100					105					110		
Ser	Glu	Ser	Tyr	Lys	Thr	Gln	Trp	Ala	Leu	Phe	Phe	Ser	Thr	Leu	Leu
		115					120					125			
Gly	Asn	Ile	Asn	Pro	Thr	Asn	Ile	Ser	Phe	Val	Thr	Ala	Tyr	Val	Leu
	130					135					140				
Asp	Ala	Leu	Ser	Pro	Glu	Leu	Gln	Ala	Lys	Thr	Ser	Glu	Ser	Leu	Gln
145					150					155					160
Glu	Gln	Ile	Asn	Ile	Met	Gln	Ala	Arg	Gly	Val	Glu	Gln	Thr	Phe	Lys
				165					170					175	
Pro	Asn	Asp	Ile	Tyr	Phe	Asp	Pro	Lys	Asn	Asp	Met	Val	Tyr	Val	Trp
			180					185					190		
Gly	Thr	Lys	Thr	Thr	Arg	Leu	Val	Asn	Val	Pro	Asp	Lys	Thr	Glu	Ser
		195					200					205			
Ser	Lys	Trp	Thr	Tyr	Glu	Trp	Val	Leu	Gly	Met	Lys	Asn	Gly	Arg	Pro
	210					215					220				
Arg	Ile	Ala	Tyr	Val	Asn	Gln	Tyr	Ser	Gly	Thr	Pro	Asn	Ile	Lys	Lys

225 230 235 240
 Ile Thr Ile Asn Gly Lys Glu Gln Leu Ala Thr Leu Asp Asn Pro Pro
 245 250 255
 Pro Ser Thr Gly Asn Lys
 260

<210> 6063
 <211> 214
 <212> PRT
 <213> Enterobacter cloacae

<400> 6063
 Gln Glu Leu Arg Met Ile Asp Leu Tyr Tyr Ala Pro Thr Pro Asn Gly
 1 5 10 15
 His Lys Ile Thr Leu Phe Leu Glu Glu Ala Glu Val Asp Tyr Arg Ile
 20 25 30
 Ile Arg Val Asp Ile Ser Lys Gly Asp Gln Phe Arg Pro Val Phe Leu
 35 40 45
 Ala Ile Ser Pro Asn Asn Lys Ile Pro Ala Ile Ile Asp Asn Leu Pro
 50 55 60
 Ser Asp Gly Gly Lys Pro Leu Ser Leu Phe Glu Ser Gly Glu Ile Leu
 65 70 75 80
 Leu Tyr Leu Ala Glu Lys Thr Gly Lys Leu Leu Ser Gly Glu Leu Arg
 85 90 95
 Glu Arg His His Thr Leu Gln Trp Leu Phe Trp Gln Ser Ser Gly Leu
 100 105 110
 Gly Pro Met Leu Gly Gln Asn His Phe Thr Ala Tyr Ala Pro Gln
 115 120 125
 Thr Ile Pro Tyr Ala Ile Glu Arg Tyr Gln Val Glu Thr Gln Arg Leu
 130 135 140
 Tyr Gly Val Leu Asn Arg Arg Leu Glu Lys Ser Pro Trp Leu Gly Gly
 145 150 155 160
 Glu His Tyr Ser Ile Ala Asp Ile Ala Cys Trp Pro Trp Ile Asn Thr
 165 170 175
 His Glu Arg His Arg Ile Asp Leu Ala Thr Tyr Pro Ala Val Asn Asn
 180 185 190
 Trp Phe Glu Arg Ile Arg Thr Arg Pro Ala Thr Glu Arg Ala Met Gln
 195 200 205
 Lys Ile His Gln Ile
 210

<210> 6064
 <211> 148
 <212> PRT
 <213> Enterobacter cloacae

<400> 6064
 Ser Cys Ala Pro Leu Gly Ala Gly Val Leu Leu Met Tyr Asp Glu Val
 1 5 10 15
 Lys Ile Leu Thr Arg Arg Arg Pro Val Met Ser Gln His Asp Ala Ile
 20 25 30
 Ile Arg Ile Lys Asn Leu Arg Leu Arg Thr Phe Ile Gly Ile Lys Glu
 35 40 45
 Glu Glu Ile Ala Asn Arg Gln Asp Ile Val Val Asn Val Val Ile His
 50 55 60
 Tyr Pro Ala Asp Lys Ala Arg Ala Ser Glu Asp Ile Asn Asp Ala Leu
 65 70 75 80
 Asn Tyr Arg Thr Ile Thr Lys Ser Ile Ile Gln Tyr Val Glu Asn Asn
 85 90 95
 Arg Phe Ala Leu Leu Glu Lys Leu Thr Gln Asp Val Leu Asp Ile Ala
 100 105 110

Arg Glu His His Trp Val Thr Tyr Ala Glu Val Glu Ile Asp Lys Leu
 115 120 125
 His Ala Leu Arg Tyr Ala Asp Ser Val Ser Met Thr Leu Ser Trp Gln
 130 135 140
 Arg Gln Ala
 145

<210> 6065

<211> 171

<212> PRT

<213> Enterobacter cloacae

<400> 6065

Tyr Gly Val Thr Met Ala Thr Ile Thr Thr Thr Arg Leu Asn Leu Thr
 1 5 10 15
 Pro Phe Glu Pro Ser Asp Trp Ala Phe Phe Arg Ser Leu Arg Glu Asp
 20 25 30
 Pro Ala Ile Met Arg Tyr Met Ala Ala Ile Thr Pro Glu Lys Glu Thr
 35 40 45
 Arg Arg Val Phe Ala Ala Arg Leu Met Ala Glu His Val Phe Val Ile
 50 55 60
 Arg Leu His Asn Asp Val Lys Pro Leu Gly Asp Ile Gly Leu Gln Ile
 65 70 75 80
 Ser Ala Ala Asn Arg Glu Glu Ala Asp Ile Gly Tyr Thr Val Val Pro
 85 90 95
 Ala Ala Gln Gly Lys Gly Ile Ala Ser Glu Ala Leu Arg Ala Val Cys
 100 105 110
 Glu Tyr Ala Phe Asn Gln Thr Gly Val Lys Ala Ile Asn Ala Tyr Val
 115 120 125
 Leu Ala Asp Asn Val Gly Ser Val Arg Val Leu Glu Lys Ala Gly Phe
 130 135 140
 Val Arg Thr Gln Val Leu Glu Lys Ala Tyr Glu Ile Asn Gly Val Arg
 145 150 155 160
 Tyr Asp Asp Trp Val Tyr Arg Leu Glu Cys
 165 170

<210> 6066

<211> 309

<212> PRT

<213> Enterobacter cloacae

<400> 6066

Ala Gly Ser Ala Arg Arg Lys Pro Gly Gly Cys Met Lys Ile Leu Leu
 1 5 10 15
 Thr Gly Gly Thr Gly Leu Ile Gly Arg His Leu Ile Pro Arg Leu Gln
 20 25 30
 Ala Leu His His Asp Ile Thr Val Val Thr Arg Ser Pro Glu Lys Ala
 35 40 45
 Arg Gln Val Leu Gly Thr Gly Val Glu Ile Trp Lys Gly Leu Ala Glu
 50 55 60
 Arg Gln Asp Leu Asn Gly Phe Asp Ala Val Ile Asn Leu Ala Gly Glu
 65 70 75 80
 Pro Ile Ala Asp Lys Arg Trp Thr Glu Glu Gln Lys Gln Arg Leu Cys
 85 90 95
 Ser Ser Arg Trp Asn Met Thr Glu Arg Leu Val Glu Leu Ile Arg Asn
 100 105 110
 Ser Glu Thr Pro Pro Ser Val Leu Ile Ser Gly Ser Ala Thr Gly Tyr
 115 120 125
 Tyr Gly Asp Leu Gly Glu Val Val Val Thr Glu Glu Glu Pro Pro His
 130 135 140
 Asn Glu Phe Thr His Lys Leu Cys Ala Gln Trp Glu Arg Ile Ala Cys

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145          150          155          160
Gly Ala Gln Ser Asp Asn Thr Arg Val Cys Leu Leu Arg Thr Gly Val
          165          170          175
Val Leu Ala Pro Lys Gly Gly Ile Leu Gly Lys Met Leu Pro Pro Phe
          180          185          190
Lys Met Gly Leu Gly Gly Pro Ile Gly Asn Gly Arg Gln Tyr Leu Ala
          195          200          205
Trp Ile His Ile Asp Asp Met Val Asn Gly Ile Leu Trp Leu Leu Asp
          210          215          220
Asn Asp Leu Arg Gly Pro Phe Asn Met Val Ser Pro Tyr Pro Val Arg
225          230          235          240
Asn Glu Gln Phe Ala His Ala Leu Gly His Ala Leu His Arg Pro Ala
          245          250          255
Val Leu Arg Val Pro Ala Thr Ala Ile Arg Leu Leu Met Gly Glu Ser
          260          265          270
Ser Val Leu Val Leu Gly Gly Gln Arg Ala Leu Pro Lys Arg Leu Glu
          275          280          285
Ala Ala Gly Phe Thr Phe Arg Trp Tyr Asp Leu Glu Glu Ala Leu Gly
          290          295          300
Asp Val Val Gln
305

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<210> 6067

<211> 168

<212> PRT

<213> Enterobacter cloacae

<400> 6067

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Arg Cys Gly Pro Met Arg Thr Phe Phe Ser Pro Tyr Val Met Ser Val
1          5          10          15
Tyr Val Ala Leu Ala Glu Lys Gly Leu Thr Phe Thr Leu Lys Thr Val
          20          25          30
Asp Leu Asp Ser Gly Glu His Leu Lys Pro Gln Trp Gln Gly Tyr Ala
          35          40          45
Leu Thr Arg Arg Val Pro Val Leu Glu Ile Asp Gly Phe Glu Leu Ser
          50          55          60
Glu Ser Ser Ala Ile Asp Glu Tyr Leu Glu Asp Arg Phe Ala Pro Pro
65          70          75          80
Glu Trp Glu Arg Ile Tyr Pro His Asp Leu Gln Lys Arg Ala Arg Ala
          85          90          95
Arg Gln Ile Gln Ala Trp Leu Arg Ser Asp Leu Val Pro Ile Arg Thr
          100          105          110
Glu Arg Ser Thr Asp Val Val Phe Ala Gly Val Lys Lys Pro Ala Leu
          115          120          125
Ser Glu Glu Gly Leu Ser Ser Ala Arg Lys Leu Ile Glu Thr Ala Ser
          130          135          140
Ser Leu Leu Ala Gln Gly Asn Pro Ser Phe His Arg Arg Arg His Glu
145          150          155          160
Gly Lys Thr Tyr Lys Pro Gly Gly
          165

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<210> 6068

<211> 240

<212> PRT

<213> Enterobacter cloacae

<400> 6068

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Glu Val Leu Lys Gly Val Ser Leu Glu Ala Asn Ala Gly Asp Val Ile
1          5          10          15
Ser Ile Ile Gly Ser Ser Gly Ser Gly Lys Ser Thr Phe Leu Arg Cys
          20          25          30

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```

Ile Asn Phe Leu Glu Lys Pro Ser Glu Gly Ser Ile Val Val Ser Gly
    35                      40                      45
Gln Asn Ile Asn Met Val Arg Asp Lys Asp Gly Gln Leu Lys Val Ala
    50                      55                      60
Asp Lys Asn Gln Leu Arg Leu Leu Arg Thr Arg Leu Thr Met Val Phe
65                      70                      75                      80
Gln His Phe Asn Leu Trp Ser His Met Thr Val Leu Glu Asn Val Met
                      85                      90                      95
Glu Ala Pro Val Gln Val Leu Gly Leu Ser Lys Gln Glu Ala Arg Glu
    100                      105                      110
Arg Ala Val Lys Tyr Leu Ala Lys Val Gly Ile Asp Glu Arg Gln Gln
    115                      120                      125
Ile Lys Tyr Pro Val His Leu Ser Gly Gly Gln Gln Gln Arg Val Ser
    130                      135                      140
Ile Ala Arg Ala Leu Ala Met Glu Pro Glu Val Leu Leu Phe Asp Glu
145                      150                      155                      160
Pro Thr Ser Ala Leu Asp Pro Glu Leu Val Gly Glu Val Leu Arg Ile
    165                      170                      175
Met Gln Lys Leu Ala Glu Glu Gly Lys Thr Met Val Val Val Thr His
    180                      185                      190
Glu Met Gly Phe Ala Arg Asn Val Ser Asn His Val Ile Phe Leu His
    195                      200                      205
Gln Gly Lys Ile Glu Glu Gln Gly His Pro Asp Glu Val Leu Ala Asn
    210                      215                      220
Pro Gln Ser Pro Arg Leu Gln Gln Phe Leu Lys Gly Ser Leu Lys
225                      230                      235                      240

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<210> 6069

<211> 350

<212> PRT

<213> Enterobacter cloacae

<220>

<221> UNSURE

<222> (336)

<400> 6069

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His Asn Leu Leu Phe Gln Thr Arg Gln Asp Lys Gln Thr Asn Leu Ile
1                      5                      10                      15
Asp Ile Asn Phe Leu Ala Leu Pro Met Asn Leu Arg Asp Asp Arg Arg
    20                      25                      30
Ile Asp Met Arg Asn Ser Met Asn Ala Phe Ser Pro Ala Gln Phe Arg
    35                      40                      45
Ala Gln Phe Pro Ala Leu Ala Asp Ala Gly Ile Tyr Leu Asp Ser Ala
50                      55                      60
Ala Thr Ala Leu Lys Pro Gln Ala Val Ile Glu Ala Thr Arg Gln Phe
65                      70                      75                      80
Tyr Ser Leu Ser Ala Gly Asn Val His Arg Ser Gln Tyr Ala Asp Ala
    85                      90                      95
Gln Arg Leu Thr Ala Gln Tyr Glu Ala Ala Arg Asp Gln Val Ala Arg
    100                      105                      110
Leu Ile Asn Ala Asp Ser Gly Lys Asn Ile Val Trp Thr Arg Gly Thr
    115                      120                      125
Thr Glu Ala Ile Asn Met Val Ala Gln Cys Tyr Ala Arg Pro Leu Leu
130                      135                      140
Gln Pro Gly Asp Glu Ile Ile Val Ser Glu Ala Glu His His Ala Asn
145                      150                      155                      160
Leu Val Pro Trp Leu Met Val Ala Glu Gln Thr Gly Ala Gln Val Val
    165                      170                      175
Lys Leu Pro Leu Gly Ala Asp Phe Leu Pro Asp Val Ala Arg Leu Pro
    180                      185                      190

```

Glu Leu Ile Thr Pro Arg Ser Arg Ile Leu Ala Leu Gly Gln Met Ser
 195 200 205
 Asn Val Thr Gly Gly Cys Pro Asp Leu Ala Arg Ala Ile Glu Ile Ala
 210 215 220
 His Ala Ser Gly Val Val Val Met Val Asp Gly Ala Gln Gly Val Val
 225 230 235 240
 His Phe Pro Ala Asp Val Gln Ala Leu Asp Ile Asp Phe Tyr Ala Phe
 245 250 255
 Ser Gly His Lys Leu Tyr Gly Pro Thr Gly Ile Gly Ala Leu Tyr Gly
 260 265 270
 Lys Pro Glu Leu Leu Ala Arg Met Thr Pro Trp Leu Gly Gly Gly Lys
 275 280 285
 Met Ile Thr Glu Val Thr Phe Asp Gly Phe Lys Thr Gln Asp Val Pro
 290 295 300
 Tyr Arg Leu Glu Ala Gly Thr Pro Asn Val Ala Gly Val Ile Gly Leu
 305 310 315 320
 Ser Ala Ala Leu Glu Trp Leu Ala Lys Thr Asp Val Val Gln Ala Xaa
 325 330 335
 Ser Trp Asn Arg Gly Leu Ala Thr Leu Val Glu Lys Asp
 340 345 350

<210> 6070

<211> 167

<212> PRT

<213> Enterobacter cloacae

<400> 6070

Arg Arg Cys Ala Gly Phe Arg Arg Arg Pro Arg Pro Gly Ile Thr Gly
 1 5 10 15
 Gly Leu Met Thr Ser Ser Ala Leu Ala Gly His Pro Phe Gly Thr Val
 20 25 30
 Ile Thr Glu Glu Thr Leu Lys Gln Thr Phe Val Pro Leu Thr Gln Trp
 35 40 45
 Glu Asp Lys Tyr Arg Gln Leu Ile Leu Leu Gly Lys Gln Leu Pro Ala
 50 55 60
 Leu Ser Asp Glu Leu Lys Leu Gln Ala Lys Glu Ile Ala Gly Cys Glu
 65 70 75 80
 Asn Arg Val Trp Leu Gly Phe Ser Val Ser Gly Glu Lys Leu His Phe
 85 90 95
 Phe Gly Asp Ser Glu Gly Arg Ile Val Arg Gly Leu Leu Ala Val Leu
 100 105 110
 Leu Thr Ala Ile Glu Gly Lys Ser Ala Ala Glu Leu Leu Ala His Ser
 115 120 125
 Pro Leu Ala Leu Phe Asp Glu Leu Gly Leu Arg Thr Gln Leu Ser Ala
 130 135 140
 Ser Arg Gly Gln Gly Leu Ile Ala Leu Asn Asp Ala Val Leu Asp Ala
 145 150 155 160
 Ala Arg Gln Ala Gln Ala
 165

<210> 6071

<211> 70

<212> PRT

<213> Enterobacter cloacae

<400> 6071

Phe Arg Gly Arg Ala His Ser Asp Met Val Thr Leu Leu Ala Gly Tyr
 1 5 10 15
 Gly Ile Ala Leu Arg Ala Gly Gln His Cys Ala Gln Pro Leu Leu Ala
 20 25 30
 Ala Ile Gly Val Ser Gly Thr Leu Arg Ala Ser Phe Ala Pro Tyr Asn

35 40 45
 Thr Lys Ser Asp Val Asp Ala Leu Val Ser Ala Val Asp Arg Ala Leu
 50 55 60
 Glu Leu Leu Val Asp
 65 70

<210> 6072

<211> 378

<212> PRT

<213> Enterobacter cloacae

<400> 6072

Gly Gly Gly Thr Thr Thr Ser Ala Pro Gly Glu Asp Asn Glu Arg Ser
 1 5 10 15
 Trp Ala Lys Tyr Leu Met Thr Gly Ala Met Val Ala Ile Leu Ala Ala
 20 25 30
 Cys Ser Ser Lys Pro Thr Asp Arg Gly Gln Gln Tyr Lys Asp Gly Lys
 35 40 45
 Leu Ser Gln Pro Phe Ser Leu Val Asn Gln Pro Asp Ala Val Gly Ala
 50 55 60
 Pro Ile Asn Ala Gly Asp Phe Ser Glu Gln Val Tyr Gln Ile Arg Lys
 65 70 75 80
 Ala Ser Pro Arg Leu Tyr Gly Ala Gln Asn Asn Val Tyr Ser Ala Val
 85 90 95
 Gln Asp Trp Leu Arg Ala Gly Gly Asp Thr Arg Asn Met Arg Gln Phe
 100 105 110
 Gly Ile Asp Ala Trp Gln Met Glu Gly Ala Asp Asn Tyr Gly Asn Val
 115 120 125
 Gln Phe Thr Gly Tyr Tyr Thr Pro Val Val Gln Ala Arg His Thr Arg
 130 135 140
 Gln Gly Glu Phe Gln Tyr Pro Ile Tyr Arg Met Pro Pro Lys Arg Gly
 145 150 155 160
 Arg Leu Pro Ser Arg Ala Glu Ile Tyr Ala Gly Ala Leu Ser Glu Asn
 165 170 175
 Tyr Val Leu Ala Tyr Ser Asn Ser Leu Met Asp Asn Phe Ile Met Asp
 180 185 190
 Val Gln Gly Ser Gly Tyr Ile Asp Phe Gly Asp Gly Ser Pro Leu Asn
 195 200 205
 Phe Phe Ser Tyr Ala Gly Lys Asn Gly His Ala Tyr Arg Ser Ile Gly
 210 215 220
 Lys Val Leu Ile Asp Arg Gly Glu Val Lys Arg Glu Asp Met Ser Met
 225 230 235 240
 Gln Ala Ile Arg Glu Trp Gly Glu Lys His Ser Glu Ala Glu Val Arg
 245 250 255
 Glu Leu Leu Glu Gln Asn Pro Ser Phe Val Phe Phe Lys Pro Gln Asn
 260 265 270
 Phe Ala Pro Val Lys Gly Ala Ser Ala Val Pro Leu Ile Gly Arg Ala
 275 280 285
 Ser Val Ala Ser Asp Arg Ser Ile Ile Pro Ala Gly Thr Thr Leu Leu
 290 295 300
 Ala Glu Val Pro Leu Leu Asp Asn Asn Gly Lys Phe Asn Gly Lys Tyr
 305 310 315 320
 Glu Leu Arg Leu Met Val Ala Leu Asp Val Gly Gly Ala Ile Lys Gly
 325 330 335
 Gln His Phe Asp Ile Tyr Gln Gly Ile Gly Pro Asp Ala Gly His Arg
 340 345 350
 Ala Gly Trp Tyr Asn His Tyr Gly Arg Val Trp Val Leu Lys Thr Ala
 355 360 365
 Pro Gly Thr Gly Asn Val Phe Ser Gly
 370 375

<210> 6073
 <211> 271
 <212> PRT
 <213> Enterobacter cloacae

<400> 6073
 Gly Phe Met Ser Val Val Ile Ser Asp Ala Trp Arg Gln Arg Phe Gly
 1 5 10 15
 Gly Thr Ala Arg Leu Tyr Gly Glu Lys Ala Leu Gln Leu Phe Ala Asp
 20 25 30
 Ala His Val Cys Val Val Gly Ile Gly Gly Val Gly Ser Trp Ala Ala
 35 40 45
 Glu Ala Leu Ala Arg Thr Gly Ile Gly Ala Ile Thr Leu Ile Asp Met
 50 55 60
 Asp Asp Val Cys Val Thr Asn Thr Asn Arg Gln Ile His Ala Leu Arg
 65 70 75 80
 Asp Asn Val Gly Leu Ala Lys Ser Glu Val Met Ala Glu Arg Ile Arg
 85 90 95
 Leu Ile Asn Pro Glu Cys Arg Val Thr Val Ile Asp Asp Phe Val Thr
 100 105 110
 Ala Asp Asn Val Ala Glu Tyr Met Ser Lys Gly Tyr Ser Tyr Val Ile
 115 120 125
 Asp Ala Ile Asp Ser Val Arg Pro Lys Ala Ala Leu Ile Ala Tyr Cys
 130 135 140
 Arg Arg Tyr Lys Val Pro Leu Val Thr Thr Gly Gly Ala Gly Gly Gln
 145 150 155 160
 Ile Asp Pro Thr Gln Ile Gln Val Ala Asp Leu Ala Lys Thr Ile Gln
 165 170 175
 Asp Pro Leu Ala Ala Lys Leu Arg Glu Arg Leu Lys Ser Asp Phe Asn
 180 185 190
 Val Val Lys Asn Ser Lys Gly Lys Leu Gly Val Asp Cys Val Phe Ser
 195 200 205
 Thr Glu Ala Leu Val Tyr Pro Gln Ala Asp Gly Ser Val Cys Ala Met
 210 215 220
 Lys Ser Thr Ala Glu Gly Pro Lys Arg Met Asp Cys Ala Ser Gly Phe
 225 230 235 240
 Gly Ala Ala Thr Met Val Thr Ala Ser Phe Gly Phe Val Ala Val Ser
 245 250 255
 His Ala Leu Lys Lys Met Met Ala Lys Ala Glu Arg Gln Ala
 260 265 270

<210> 6074
 <211> 69
 <212> PRT
 <213> Enterobacter cloacae

<400> 6074
 Leu Leu Lys Glu Ile Ile Met Lys Lys Thr Ala Ala Ile Ile Ser Ala
 1 5 10 15
 Cys Ala Leu Thr Phe Ala Leu Ser Ala Cys Ser Gly Asn Asn Tyr Val
 20 25 30
 Met His Thr Asn Asp Gly Arg Ser Ile Val Ser Glu Gly Lys Pro Thr
 35 40 45
 Thr Asp Asn Asp Thr Gly Met Ile Cys Leu His Thr Arg Arg Trp Lys
 50 55 60
 Ile Arg Tyr Cys Val
 65

<210> 6075
 <211> 154
 <212> PRT

<213> Enterobacter cloacae

<220>

<221>UNSURE

<222>(93)

<220>

<221>UNSURE

<222>(135)

<220>

<221>UNSURE

<222>(142)

<400> 6075

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His Leu Leu Cys Ile Asp Ser Lys Thr His Glu Phe Arg Leu Pro Glu
1          5          10          15
Arg Pro Arg Ala Ser Asn Leu Ala Arg Tyr Phe Leu Pro Pro Val Asn
          20          25          30
Arg Ile Thr Ala Met Pro Arg Ala Asn Glu Ile Lys Lys Gly Met Val
          35          40          45
Leu Asn Tyr Asn Gly Lys Leu Leu Ile Val Lys Asp Ile Asp Ile Gln
          50          55          60
Ala Pro Ser Ala Arg Gly Ala Ala Thr Leu Tyr Lys Met Arg Phe Ser
65          70          75          80
Asp Val Arg Thr Gly Leu Lys Val Glu Glu Arg Phe Xaa Gly Asp Asp
          85          90          95
Ile Val Asp Thr Val Thr Leu Thr Arg Tyr Val Asp Phe Ser Tyr
          100          105          110
Ile Asp Gly Asn Glu Tyr Val Phe Met Asp Lys Glu Asn Tyr Pro Arg
          115          120          125
Ile Ser Ser Pro Lys Ile Xaa Ser Lys Lys Ser Cys Cys Xaa Phe Leu
          130          135          140
Lys Val Gly Cys Arg Thr Cys Arg Cys
145          150

```

<210> 6076

<211> 424

<212> PRT

<213> Enterobacter cloacae

<400> 6076

```

Phe Phe Val Ala Ile Leu Thr Leu Pro Ser Val Tyr Leu Met Thr Gly
1          5          10          15
Gly Val Asn Ser Ala Ser Leu Cys Tyr Ser Gln Arg Leu Asn Met His
          20          25          30
Asn Thr Pro Ala Ala Ala Ser Pro Lys Pro Phe Asp Leu Thr Ser Thr
          35          40          45
Ala Phe Leu Ile Val Ala Phe Leu Thr Gly Ile Ala Gly Ala Leu Gln
          50          55          60
Thr Arg Thr Leu Ser Leu Phe Leu Thr Asn Glu Val His Ala Arg Pro
65          70          75          80
Ala Met Val Gly Phe Phe Phe Thr Gly Ser Ala Ile Ile Gly Ile Phe
          85          90          95
Val Ser Gln Phe Leu Ala Gly Arg Ser Asp Arg Lys Gly Asp Arg Lys
          100          105          110
Ser Leu Ile Val Phe Cys Cys Leu Leu Gly Val Phe Ala Cys Leu Leu
          115          120          125
Phe Ala Trp Asn Arg Asn Tyr Phe Ile Leu Leu Phe Val Gly Val Phe
          130          135          140
Leu Ser Ser Phe Gly Ser Thr Ala Asn Pro Gln Met Phe Ala Leu Ala

```

```

145          150          155          160
Arg Glu His Ala Asp His Thr Gly Arg Glu Ala Val Met Phe Ser Ser
          165          170          175
Ile Leu Arg Ala Gln Val Ser Leu Ala Trp Val Ile Gly Pro Pro Leu
          180          185          190
Ala Tyr Ala Leu Ala Met Gly Phe Gly Phe Thr Val Met Tyr Leu Ser
          195          200          205
Ala Ala Val Ala Phe Val Val Cys Gly Ala Met Val Trp Phe Phe Leu
          210          215          220
Pro Ser Met Arg Lys Glu Pro Lys Val Ala Thr Gly Thr Leu Glu Ala
225          230          235          240
Pro Arg Arg Asn Arg Arg Asp Ala Leu Leu Leu Phe Ile Ile Cys Thr
          245          250          255
Leu Met Trp Gly Thr Asn Ser Leu Tyr Ile Ile Asn Met Pro Leu Phe
          260          265          270
Ile Ile Asp Glu Leu His Leu Pro Glu Lys Leu Ala Gly Ile Met Met
          275          280          285
Gly Thr Ala Ala Gly Leu Glu Ile Pro Thr Met Leu Ile Ala Gly Tyr
          290          295          300
Tyr Ala Lys Arg Phe Gly Lys Arg Phe Leu Met Arg Val Ala Ala Val
305          310          315          320
Ala Gly Leu Leu Phe Tyr Val Gly Met Leu Thr Val His Thr Pro Ala
          325          330          335
Leu Leu Leu Ala Leu Gln Leu Leu Asn Ala Ile Tyr Ile Gly Ile Leu
          340          345          350
Ala Gly Ile Gly Met Leu Tyr Phe Gln Asp Leu Met Pro Gly Gln Ala
          355          360          365
Gly Ser Ala Thr Thr Leu Tyr Tnr Asn Thr Thr Arg Val Gly Trp Ile
          370          375          380
Ile Ala Gly Ser Leu Ala Gly Val Val Ala Glu Ile Trp Asn Tyr His
385          390          395          400
Thr Val Phe Trp Ile Ala Leu Val Met Cys Val Met Thr Leu Ser Cys
          405          410          415
Leu Thr Arg Ile Lys Asp Val
          420

```

<210> 6077

<211> 332

<212> PRT

<213> Enterobacter cloacae

<400> 6077

```

Thr Gly Ala Glu Ser Asp Trp Arg Arg His Arg Gly Arg Ser Gly Gly
1          5          10          15
Gly Arg Ile Met Ser Arg Arg Val Ala Thr Ile Thr Leu Asn Pro Ala
          20          25          30
Tyr Asp Leu Val Gly Phe Cys Pro Glu Ile Glu Arg Gly Glu Val Asn
          35          40          45
Leu Val Arg Thr Thr Gly Leu His Ala Ala Gly Lys Gly Ile Asn Val
          50          55          60
Ala Lys Val Leu Lys Asp Leu Gly Ile Asp Val Thr Val Gly Gly Phe
          65          70          75          80
Leu Gly Lys Asp Asn Gln Asp Gly Phe Gln Gln Leu Phe Ser Glu Leu
          85          90          95
Gly Ile Ala Asn Arg Phe Gln Val Val Gln Gly Arg Thr Arg Ile Asn
          100          105          110
Val Lys Leu Thr Glu Lys Asp Gly Glu Val Thr Asp Leu Asn Phe Ser
          115          120          125
Gly Phe Glu Val Thr Pro Ala Asp Trp Glu Arg Phe Val Ala Asp Ser
          130          135          140
Leu Ser Trp Leu Gly Gln Phe Asp Met Val Cys Val Ser Gly Ser Leu

```


145					150					155					160
Pro	Ser	Gly	Val	Ser	Pro	Glu	Ala	Phe	Thr	Asp	Trp	Met	Thr	Arg	Leu
				165					170					175	
Arg	Ser	Gln	Cys	Pro	Cys	Ile	Ile	Phe	Asp	Ser	Ser	Arg	Asp	Ala	Leu
			180					185					190		
Val	Ala	Gly	Leu	Lys	Ala	Ser	Pro	Trp	Leu	Val	Lys	Pro	Asn	Arg	Arg
		195					200					205			
Glu	Leu	Glu	Ile	Trp	Ala	Gly	Arg	Lys	Leu	Pro	Glu	Leu	Lys	Asp	Val
	210					215					220				
Ile	Asp	Ala	Ala	His	Ala	Leu	Arg	Glu	Gln	Gly	Ile	Ala	His	Val	Val
225					230					235					240
Ile	Ser	Leu	Gly	Ala	Glu	Gly	Ala	Leu	Trp	Val	Asn	Ala	Ser	Gly	Glu
			245						250					255	
Trp	Ile	Ala	Lys	Pro	Pro	Ser	Met	Glu	Val	Val	Ser	Thr	Val	Gly	Ala
			260					265					270		
Gly	Asp	Ser	Met	Val	Gly	Gly	Leu	Ile	Tyr	Gly	Leu	Leu	Met	Arg	Glu
		275					280					285			
Ser	Ser	Glu	His	Thr	Leu	Arg	Leu	Ala	Thr	Ala	Val	Ala	Ala	Leu	Ala
	290					295					300				
Val	Ser	Gln	Ser	Asn	Val	Gly	Ile	Thr	Asp	Arg	Thr	Gln	Leu	Ala	Ala
305					310					315					320
Met	Met	Ala	Arg	Val	Asp	Leu	Lys	Pro	Phe	Asn					
				325					330						

<210> 6078

<211> 389

<212> PRT

<213> Enterobacter cloacae

<400> 6078

Ala	Glu	Thr	Ile	Gln	Phe	Gln	Gln	Glu	Arg	Arg	Ile	Met	Phe	Gln	Leu
1				5				10					15		
Ser	Val	Gln	Asp	Ile	His	Pro	Gly	Glu	Gln	Ala	Gly	Asn	Lys	Glu	Glu
		20					25					30			
Ala	Ile	Arg	Gln	Val	Ala	Ala	Ala	Leu	Val	Gln	Ala	Gly	Asn	Val	Ala
	35					40					45				
Asp	Gly	Tyr	Val	Asn	Gly	Met	Leu	Ala	Arg	Glu	Gln	Gln	Thr	Ser	Thr
50					55					60					
Phe	Leu	Gly	Asn	Gly	Ile	Ala	Ile	Pro	His	Gly	Thr	Thr	Asp	Thr	Arg
65				70				75						80	
Asp	Gln	Val	Leu	Lys	Thr	Gly	Val	Gln	Val	Phe	Gln	Phe	Pro	Gln	Gly
			85				90						95		
Val	Leu	Trp	Gly	Glu	Gly	Gln	Val	Ala	Tyr	Val	Ala	Ile	Gly	Ile	Ala
	100						105					110			
Ala	Ser	Gly	Asp	Glu	His	Leu	Gly	Leu	Leu	Arg	Gln	Leu	Thr	His	Val
	115					120					125				
Leu	Ser	Asp	Asp	Ala	Val	Ala	Glu	Gln	Leu	Lys	Ser	Ala	Thr	Thr	Ala
	130					135					140				
Glu	Glu	Leu	Arg	Ala	Leu	Leu	Met	Gly	Glu	Lys	Gln	Ser	Glu	Ala	Leu
145				150					155						160
Lys	Leu	Asp	Asn	Glu	Thr	Leu	Thr	Leu	Asp	Val	Val	Ala	Ser	Asp	Leu
			165					170					175		
Val	Thr	Leu	Gln	Ala	Leu	Asn	Ala	Ala	Arg	Leu	Lys	Glu	Val	Gly	Ala
		180					185					190			
Ala	Asp	Ser	Ala	Phe	Val	Thr	Arg	Ala	Ile	Asn	Asp	Lys	Pro	Leu	Asn
	195					200					205				
Leu	Gly	Gln	Gly	Ile	Trp	Leu	Asn	Asp	Ser	Ala	Glu	Gly	Asn	Leu	Arg
	210					215					220				
Ser	Ala	Ile	Ala	Val	Ser	Arg	Ala	Ala	Val	Ala	Phe	Glu	Thr	Asp	Gly
225					230					235					240
Glu	Arg	Ala	Ala	Met	Leu	Val	Thr	Val	Ala	Met	Thr	Asp	Asp	Gln	Pro

				245					250					255			
Val	Ser	Val	Leu	Lys	Arg	Leu	Gly	Asp	Leu	Leu	Leu	Asn	Asn	Lys	Ala		
			260					265					270				
Glu	Lys	Leu	Leu	Asn	Ala	Asp	Ala	Ala	Thr	Val	Leu	Ala	Leu	Leu	Thr		
		275					280					285					
Ser	Asp	Asp	Ala	Leu	Thr	Asp	Asp	Leu	Leu	Ser	Ala	Glu	Tyr	Val	Val		
	290					295				300							
Arg	Asn	Glu	His	Gly	Leu	His	Ala	Arg	Pro	Gly	Thr	Met	Leu	Val	Asn		
305					310					315					320		
Thr	Ile	Lys	Gln	Phe	Glu	Ser	Glu	Ile	Thr	Val	Thr	Asn	Leu	Asp	Gly		
			325					330						335			
Ser	Gly	Lys	Pro	Ala	Asn	Gly	Arg	Ser	Leu	Met	Lys	Val	Val	Ala	Leu		
			340					345				350					
Gly	Val	Lys	Lys	Gly	His	Arg	Leu	Arg	Phe	Thr	Ala	Gln	Gly	Ala	Asp		
		355					360					365					
Ala	Glu	Gln	Ala	Leu	Lys	Ala	Ile	Gly	Asp	Ala	Ile	Ala	Ala	Gly	Leu		
	370					375					380						
Gly	Glu	Gly	Ala														
385																	

<210> 6079

<211> 585

<212> PRT

<213> Enterobacter cloacae

<400> 6079

Asn	Leu	Leu	Thr	Asn	Ser	Arg	Arg	Gly	Ile	Met	Lys	Thr	Leu	Leu	Ile		
1			5					10					15				
Ile	Asp	Ser	Gly	Leu	Gly	Gln	Ala	Arg	Ala	Tyr	Met	Ala	Lys	Thr	Leu		
		20					25					30					
Leu	Gly	Ala	Ala	Ala	Gln	Lys	Ala	His	Leu	Asp	Ile	Ile	Asp	Asn	Pro		
		35					40					45					
Gly	Asp	Ala	Glu	Met	Ala	Ile	Val	Leu	Gly	Asp	Lys	Ile	Pro	Ala	Asp		
	50					55				60							
Ser	Ala	Leu	Asn	Gly	Lys	Lys	Val	Trp	Leu	Gly	Asp	Ile	Asn	Arg	Ala		
65				70				75							80		
Val	Ala	His	Pro	Glu	Leu	Phe	Leu	Ser	Glu	Ala	Lys	Gly	His	Ala	Thr		
			85					90					95				
Val	Tyr	Ser	Ala	Pro	Val	Glu	Ala	Ala	Pro	Val	Ala	Ala	Val	Gly	Pro		
		100						105					110				
Lys	Arg	Ile	Val	Ala	Val	Thr	Ala	Cys	Pro	Thr	Gly	Val	Ala	His	Thr		
		115					120					125					
Phe	Met	Ala	Ala	Glu	Ala	Ile	Glu	Thr	Glu	Ala	Lys	Lys	Arg	Gly	Trp		
	130					135					140						
Trp	Val	Lys	Val	Glu	Thr	Arg	Gly	Ser	Val	Gly	Ala	Gly	Asn	Ala	Ile		
145				150					155						160		
Thr	Pro	Glu	Glu	Val	Ala	Glu	Ala	Asp	Leu	Val	Ile	Val	Ala	Ala	Asp		
			165					170					175				
Ile	Glu	Val	Asp	Leu	Ala	Lys	Phe	Ala	Gly	Lys	Pro	Met	Tyr	Arg	Thr		
		180						185					190				
Ser	Thr	Gly	Leu	Ala	Leu	Lys	Lys	Thr	Ala	Gln	Glu	Phe	Asp	Lys	Ala		
		195					200					205					
Leu	Ala	Glu	Ala	Lys	Pro	Tyr	Gln	Ala	Thr	Gly	Ala	Ala	Lys	Thr	Ala		
	210					215					220						
Thr	Glu	Gly	Lys	Lys	Glu	Ser	Ala	Gly	Ala	Tyr	Arg	His	Leu	Leu	Thr		
225				230						235					240		
Gly	Val	Ser	Tyr	Met	Leu	Pro	Met	Val	Val	Ala	Gly	Gly	Leu	Cys	Ile		
			245					250					255				
Ala	Leu	Ser	Phe	Ala	Phe	Gly	Ile	Glu	Ala	Phe	Lys	Glu	Pro	Gly	Thr		
		260						265				270					
Leu	Ala	Ala	Ala	Leu	Met	Gln	Ile	Gly	Gly	Gly	Ser	Ala	Phe	Ala	Leu		

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<210> 6080
<211> 832
<212> PRT
<213> Enterobacter cloacae
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Lys	Arg	Trp	Gly	Cys	His	Cys	Trp	Arg	Ser	Leu	Val	Leu	Lys	Leu	Thr
1				5					10					15	
Thr	Leu	Leu	Val	Pro	Trp	Arg	Ala	Lys	Arg	Lys	Lys	Ala	Ser	Arg	Pro
			20					25					30		
Val	Leu	Ile	Ser	Thr	Gly	Asp	Lys	Asp	Met	Ala	Gln	Leu	Val	Thr	Pro
		35					40					45			
Gly	Ile	Thr	Leu	Ile	Asn	Thr	Met	Thr	Asn	Thr	Ile	Leu	Gly	Pro	Glu
	50					55					60				
Glu	Val	Val	Ala	Lys	Tyr	Gly	Val	Pro	Pro	Glu	Leu	Ile	Ile	Asp	Phe
65					70					75				80	
Leu	Ala	Leu	Met	Gly	Asp	Ser	Ser	Asp	Asn	Ile	Pro	Gly	Val	Pro	Gly
				85					90					95	
Val	Gly	Glu	Lys	Thr	Ala	Gln	Ala	Leu	Leu	Gln	Gly	Leu	Gly	Gly	Leu
			100					105					110		
Asp	Thr	Leu	Tyr	Ala	Glu	Ser	Asp	Lys	Ile	Ala	Gly	Leu	Thr	Phe	Arg

		115					120					125			
Gly	Ala	Lys	Thr	Met	Ala	Gly	Lys	Leu	Ala	Asp	Asn	Lys	Glu	Val	Ala
	130					135					140				
Tyr	Leu	Ser	Tyr	Gln	Leu	Ala	Thr	Ile	Lys	Thr	Asp	Val	Lys	Leu	Glu
145					150					155					160
Leu	Thr	Cys	Glu	Gln	Leu	Glu	Val	Gln	Glu	Pro	Ala	Ala	Asp	Glu	Leu
				165					170					175	
Leu	Gly	Leu	Phe	Arg	Lys	Tyr	Glu	Phe	Lys	Arg	Trp	Thr	Ala	Asp	Val
			180					185					190		
Glu	Ala	Gly	Lys	Trp	Leu	Gln	Ala	Lys	Gly	Ala	Lys	Pro	Ala	Ala	Lys
		195					200					205			
Pro	Lys	Glu	Thr	Ile	Val	Val	Asp	Ala	Glu	Glu	Gln	Ala	Glu	Glu	Glu
	210					215					220				
Ala	Ile	Ala	Leu	Ser	Phe	Asp	Asn	Tyr	Glu	Thr	Ile	Leu	Glu	Glu	Ser
225					230					235					240
Arg	Leu	Val	Ala	Trp	Ile	Glu	Lys	Leu	Lys	Lys	Ala	Pro	Val	Phe	Ala
				245					250					255	
Phe	Asp	Thr	Glu	Thr	Asp	Ser	Leu	Asp	Asn	Ile	Thr	Ala	Asn	Met	Val
			260					265					270		
Gly	Leu	Ser	Phe	Ala	Thr	Glu	Pro	Gly	Val	Ala	Ala	Tyr	Val	Pro	Val
		275					280					285			
Ala	His	Asp	Tyr	Leu	Asp	Ala	Pro	Glu	Gln	Ile	Ser	Arg	Glu	Arg	Ala
	290					295					300				
Leu	Glu	Leu	Leu	Lys	Pro	Ile	Leu	Glu	Tyr	Glu	Lys	Ala	Leu	Lys	Val
305					310					315					320
Gly	Gln	Asn	Leu	Lys	Tyr	Asp	Arg	Gly	Ile	Leu	Gln	Asn	Tyr	Gly	Ile
				325					330					335	
Glu	Leu	Arg	Gly	Ile	Ala	Phe	Asp	Thr	Met	Leu	Glu	Ser	Tyr	Ile	Leu
			340					345					350		
Asp	Ser	Val	Ala	Gly	Arg	His	Asp	Met	Asp	Ser	Leu	Ser	Asp	Arg	Trp
		355					360					365			
Leu	Lys	His	Lys	Thr	Ile	Thr	Phe	Glu	Glu	Ile	Ala	Gly	Lys	Gly	Lys
	370					375					380				
Asn	Gln	Leu	Thr	Phe	Asn	Gln	Ile	Ala	Leu	Glu	Glu	Ala	Gly	Arg	Tyr
385					390					395					400
Ala	Ala	Glu	Asp	Ala	Asp	Val	Thr	Leu	Gln	Leu	His	Leu	Lys	Met	Trp
				405					410					415	
Pro	Lys	Leu	Gln	Lys	His	Glu	Gly	Pro	Leu	Asn	Val	Phe	Arg	Asn	Ile
		420					425					430			
Glu	Met	Pro	Leu	Val	Pro	Val	Leu	Ser	Arg	Ile	Glu	Arg	Asn	Gly	Val
	435					440					445				
Lys	Ile	Asp	Pro	Thr	Val	Leu	His	Asn	His	Ser	Gly	Glu	Leu	Ala	Gln
	450					455					460				
Arg	Leu	Thr	Glu	Leu	Glu	Gln	Lys	Ala	His	Glu	Leu	Ala	Gly	Glu	Ala
465															

Tyr Ser Gln Ile Glu Leu Arg Ile Met Ala His Leu Ser Arg Asp Lys
 610 615 620
 Gly Leu Leu Thr Ala Phe Ala Glu Gly Lys Asp Ile His Arg Ala Thr
 625 630 635 640
 Ala Ala Glu Val Phe Gly Leu Pro Leu Glu Ser Val Thr Asn Glu Gln
 645 650 655
 Arg Arg Ser Ala Lys Ala Ile Asn Phe Gly Leu Ile Tyr Gly Met Ser
 660 665 670
 Ala Phe Gly Leu Ser Arg Gln Leu Asn Ile Pro Arg Lys Glu Ser Gln
 675 680 685
 Lys Tyr Met Asp Leu Tyr Phe Glu Arg Tyr Pro Gly Val Leu Glu Tyr
 690 695 700
 Met Glu Arg Thr Arg Ala Gln Ala Lys Glu Lys Gly Tyr Val Glu Thr
 705 710 715 720
 Leu Asp Gly Arg Arg Leu Tyr Leu Pro Asp Ile Lys Ser Ser Asn Ala
 725 730 735
 Ala Arg Arg Ala Gly Ala Glu Arg Ala Ala Ile Asn Ala Pro Met Gln
 740 745 750
 Gly Thr Ala Ala Asp Ile Ile Lys Arg Ala Met Ile Ala Val Asp Ala
 755 760 765
 Trp Leu Glu Lys Glu Lys Pro Arg Val Lys Met Ile Met Gln Val His
 770 775 780
 Asp Glu Leu Val Phe Glu Val His Lys Asp Asp Leu Glu Thr Val Ser
 785 790 795 800
 Gln Lys Ile His Glu Leu Met Glu Asn Ser Met Lys Leu Asp Val Pro
 805 810 815
 Leu Leu Val Glu Val Gly Ser Gly Glu Asn Trp Asp Gln Ala His
 820 825 830

<210> 6081

<211> 86

<212> PRT

<213> Enterobacter cloacae

<400> 6081

Asn Ile Met Lys Lys Pro Thr Ser Ala Ala Gly Ala Lys Arg Pro Ala
 1 5 10 15
 Lys Ala Arg Arg Lys Thr Arg Glu Glu Leu Asn Gln Glu Ala Arg Asp
 20 25 30
 Arg Lys Arg Asp Lys Lys His Arg Gly His Ala Ala Gly Ser Arg Ala
 35 40 45
 Asn Gly Gly Gly Ala Pro Ser Ala Ser Gly Lys Arg Gln Pro Ala Glu
 50 55 60
 Lys Ile Leu Val Ser Ala Ile Lys Thr Pro Ile Gln Leu Gly Arg Glu
 65 70 75 80
 Arg His Pro Gly His
 85

<210> 6082

<211> 157

<212> PRT

<213> Enterobacter cloacae

<400> 6082

Cys Phe His Pro Ser Val Ala Ser Phe Thr His Lys Phe Ile Thr Gly
 1 5 10 15
 Thr Asp Ile Met Val Gln Ile Pro Glu Asn Pro Leu Ile Leu Val Asp
 20 25 30
 Gly Ser Ser Tyr Leu Tyr Arg Ala Tyr His Ala Phe Pro Pro Leu Thr
 35 40 45
 Asn Ser Ala Gly Glu Pro Thr Gly Ala Met Tyr Gly Val Leu Asn Met

50	55	60													
Leu	Arg	Ser	Leu	Ile	Leu	Gln	Tyr	His	Pro	Thr	His	Ala	Ala	Val	Val
65					70					75					80
Phe	Asp	Ala	Lys	Gly	Lys	Thr	Phe	Arg	Asp	Glu	Leu	Phe	Glu	His	Tyr
			85						90					95	
Lys	Ser	His	Arg	Pro	Pro	Met	Pro	Asp	Asp	Leu	Arg	Ala	Gln	Ile	Glu
			100					105					110		
Pro	Leu	His	Ala	Met	Val	Lys	Ala	Met	Gly	Leu	Pro	Leu	Leu	Ala	Val
	115						120					125			
Ser	Gly	Val	Glu	Ala	Asp	Asp	Val	Ile	Gly	Thr	Leu	Ala	Arg	Glu	Ala
	130					135					140				
Glu	Lys	Ser	Lys	Pro	Pro	Gly	Ser	Asp	Gln	Tyr	Arg				
145				150					155						

<210> 6083

<211> 221

<212> PRT

<213> Enterobacter cloacae

<400> 6083

Ser	Pro	Gln	Ile	Thr	Ile	Phe	Gly	Asp	Asp	His	Val	Thr	Thr	Trp	Asn
1				5					10					15	
Tyr	Gln	Gln	Thr	His	Phe	Val	Thr	Ser	Ala	Pro	Asp	Ile	Arg	His	Leu
			20					25					30		
Pro	Ser	Asp	Thr	Gly	Ile	Glu	Val	Ala	Phe	Ala	Gly	Arg	Ser	Asn	Ala
		35					40					45			
Gly	Lys	Ser	Ser	Ala	Leu	Asn	Thr	Leu	Thr	Asn	Gln	Lys	Asn	Leu	Ala
	50					55					60				
Arg	Thr	Ser	Lys	Thr	Pro	Gly	Arg	Thr	Gln	Leu	Ile	Asn	Leu	Phe	Glu
	65				70					75					80
Val	Ala	Glu	Gly	Lys	Arg	Leu	Val	Asp	Leu	Pro	Gly	Tyr	Gly	Tyr	Ala
			85					90						95	
Gln	Val	Pro	Glu	Glu	Met	Lys	Ile	Lys	Trp	Gln	Arg	Ala	Leu	Gly	Glu
		100						105					110		
Tyr	Leu	Glu	Lys	Arg	Met	Cys	Leu	Lys	Gly	Leu	Val	Val	Leu	Met	Asp
	115						120					125			
Ile	Arg	His	Pro	Leu	Lys	Asp	Leu	Asp	Gln	Gln	Met	Ile	Asp	Trp	Ala
	130					135					140				
Val	Ala	Ser	Asp	Ile	Ala	Val	Leu	Val	Leu	Leu	Thr	Lys	Ala	Asp	Lys
	145				150					155					160
Leu	Ala	Ser	Gly	Ala	Arg	Lys	Ala	Gln	Val	Asn	Lys	Val	Arg	Glu	Ala
			165					170						175	
Val	Leu	Ala	Phe	Asn	Gly	Asp	Val	Gln	Val	Glu	Pro	Phe	Ser	Ser	Leu
		180					185						190		
Lys	Lys	Gln	Gly	Val	Asp	Lys	Leu	Arg	Gln	Lys	Leu	Asp	Ser	Trp	Phe
	195						200					205			
Asn	Asp	Leu	Glu	Pro	Ala	Thr	Glu	Ala	Glu	Ala	Glu				
	210					215					220				

<210> 6084

<211> 216

<212> PRT

<213> Enterobacter cloacae

<400> 6084

Thr	Arg	Trp	Ile	Phe	Ala	Gly	Val	Val	Lys	Thr	Gly	Glu	Thr	Leu	Asp
1				5					10					15	
Asn	Glu	Leu	Leu	Asp	Glu	Leu	Ser	His	Ser	Pro	Glu	Met	Gln	Gln	Thr
		20						25					30		
Trp	Glu	Ser	Tyr	His	Leu	Ile	Arg	Asp	Thr	Leu	Arg	Gly	Asp	Thr	Ser
		35					40					45			

Glu Val Leu His Phe Asp Ile Ser Ala Arg Val Met Ala Ala Ile Glu
 50 55 60
 Asn Glu Pro Val His Gln Thr Thr Pro Leu Ile Pro Glu Ala Gln Pro
 65 70 75 80
 Ala Pro His Gln Trp Gln Lys Met Pro Phe Trp His Lys Val Arg Pro
 85 90 95
 Trp Ala Ser Gln Leu Thr Gln Met Gly Val Ala Ala Cys Val Ser Leu
 100 105 110
 Ala Val Ile Val Gly Val Gln His Tyr Asn Thr Gln Ser Glu Ala Asn
 115 120 125
 Gln Gln Pro Glu Ala Pro Val Phe Asn Thr Leu Pro Met Met Gly Lys
 130 135 140
 Ala Ser Pro Val Ser Leu Gly Val Pro Ala Asp Ala Ser Ala Ser Gly
 145 150 155 160
 Gly Gln Gln Gln Gln Val Gln Glu Gln Arg Arg Arg Ile Asn Ala Met
 165 170 175
 Leu Gln Asp Tyr Glu Leu Gln Arg Arg Leu His Ser Glu Gln Leu Gln
 180 185 190
 Phe Glu Gln Ala Gln Thr Gln Gln Ala Ala Val Gln Val Pro Gly Asn
 195 200 205
 Gln Thr Leu Gly Thr Gln Ser Gln
 210 215

<210> 6085

<211> 544

<212> PRT

<213> Enterobacter cloacae

<400> 6085

Leu Phe Asn Tyr Met Lys Asn Ile Arg Asn Phe Ser Ile Ile Ala His
 1 5 10 15
 Ile Asp His Gly Lys Ser Thr Leu Ser Asp Arg Ile Ile Gln Ile Cys
 20 25 30
 Gly Gly Leu Ser Asp Arg Glu Met Ala Ala Gln Val Leu Asp Ser Met
 35 40 45
 Asp Leu Glu Arg Glu Arg Gly Ile Thr Ile Lys Ala Gln Ser Val Thr
 50 55 60
 Leu Asp Tyr Lys Ala Ser Asp Gly Glu Thr Tyr Gln Leu Asn Phe Ile
 65 70 75 80
 Asp Thr Pro Gly His Val Asp Phe Ser Tyr Glu Val Ser Arg Ser Leu
 85 90 95
 Ala Ala Cys Glu Gly Ala Leu Leu Val Val Asp Ala Gly Gln Gly Val
 100 105 110
 Glu Ala Gln Thr Leu Ala Asn Cys Tyr Thr Ala Met Glu Met Asp Leu
 115 120 125
 Glu Val Val Pro Val Leu Asn Lys Ile Asp Leu Pro Ala Ala Asp Pro
 130 135 140
 Glu Arg Val Ala Glu Glu Ile Glu Asp Ile Val Gly Ile Asp Ala Thr
 145 150 155 160
 Asp Ala Val Arg Cys Ser Ala Lys Thr Gly Val Gly Val Pro Asp Val
 165 170 175
 Leu Glu Arg Leu Val Arg Asp Ile Pro Pro Pro Glu Gly Asp Pro Asp
 180 185 190
 Ala Pro Leu Gln Ala Leu Ile Ile Asp Ser Trp Phe Asp Asn Tyr Leu
 195 200 205
 Gly Val Val Ser Leu Val Arg Ile Lys Asn Gly Thr Met Arg Lys Gly
 210 215 220
 Asp Lys Ile Lys Val Met Ser Thr Gly Gln Val Tyr Asn Ala Asp Arg
 225 230 235 240
 Leu Gly Ile Phe Thr Pro Lys Gln Val Asp Arg Thr Glu Leu Lys Cys
 245 250 255

Gly Glu Val Gly Trp Leu Val Cys Ala Ile Lys Asp Ile Leu Gly Ala
 260 265 270
 Pro Val Gly Asp Thr Leu Thr Gly Ala Arg Asn Pro Ala Asp Lys Ala
 275 280 285
 Leu Pro Gly Phe Lys Lys Val Lys Pro Gln Val Tyr Ala Gly Leu Phe
 290 295 300
 Pro Val Ser Ser Asp Asp Tyr Glu Asn Phe Arg Asp Ala Leu Gly Lys
 305 310 315 320
 Leu Ser Leu Asn Asp Ala Ser Leu Phe Tyr Glu Pro Glu Ser Ser Thr
 325 330 335
 Ala Leu Gly Phe Gly Phe Arg Cys Gly Phe Leu Gly Leu Leu His Met
 340 345 350
 Glu Ile Ile Gln Glu Arg Leu Glu Arg Glu Tyr Asp Leu Asp Leu Ile
 355 360 365
 Thr Thr Ala Pro Thr Val Val Tyr Glu Val Glu Thr Thr Ser Lys Glu
 370 375 380
 Val Ile Tyr Val Asp Ser Pro Ser Lys Leu Pro Pro Leu Asn Asn Ile
 385 390 395 400
 Gln Glu Leu Arg Glu Pro Ile Ala Glu Cys His Met Leu Leu Pro Gln
 405 410 415
 Glu Phe Leu Gly Asp Asn Val Ile Thr Leu Cys Ile Glu Lys Arg Gly Val
 420 425 430
 Gln Thr Asn Met Val Tyr His Gly Asn Gln Val Ala Leu Thr Tyr Glu
 435 440 445
 Ile Pro Met Ala Glu Val Val Leu Asp Phe Phe Asp Arg Leu Lys Ser
 450 455 460
 Thr Ser Arg Gly Tyr Ala Ser Leu Asp Tyr Asn Phe Lys Arg Phe Gln
 465 470 475 480
 Ala Ser Asn Met Val Arg Val Asp Val Leu Ile Asn Gly Glu Arg Val
 485 490 495
 Asp Ala Leu Ala Leu Ile Thr His Asn Asp Asn Ala Pro Tyr Arg Gly
 500 505 510
 Arg Glu Leu Val Glu Lys Met Lys Asp Leu Ile Pro Arg Gln Gln Phe
 515 520 525
 Asp Ile Ala Ser Leu His Thr Arg Leu Ala Gly Ser Ala Leu Arg Tyr
 530 535 540

<210> 6086

<211> 164

<212> PRT

<213> Enterobacter cloacae

<400> 6086

Ile Gln Gly Cys Ala Met Ile Lys Glu Trp Ala Thr Val Val Ser Trp
 1 5 10 15
 Gln Asp Gly Val Ala Leu Val Ser Cys Asp Val Lys Ala Ser Cys Ser
 20 25 30
 Ser Cys Ala Ser Arg Ala Gly Cys Gly Ser Arg Val Leu Asn Lys Leu
 35 40 45
 Gly Pro Gln Thr Ser His Thr Ile Thr Val Pro Ser Ala Gln Pro Leu
 50 55 60
 Val Ala Gly Gln Lys Val Glu Leu Gly Ile Ala Glu Gly Ser Leu Leu
 65 70 75 80
 Thr Ser Ala Met Leu Val Tyr Leu Ser Pro Leu Ala Gly Leu Phe Val
 85 90 95
 Met Gly Gly Val Phe Gln Met Leu Phe Gly Thr Asp Leu Ala Ala Met
 100 105 110
 Cys Gly Ala Ala Leu Gly Gly Val Gly Gly Phe Trp Leu Ala Lys Gly
 115 120 125
 Val Ser Pro Arg Leu Ala Ala Arg Glu Ala Trp Gln Pro Val Ile Leu
 130 135 140

Ser Val Ala Leu Ala Pro Asp Gln Leu Arg Val Glu Thr Leu Ser Ser
 145 150 155 160
 Lys Ala Arg

<210> 6087

<211> 341

<212> PRT

<213> Enterobacter cloacae

<400> 6087

Ala Gly Pro Asn Pro Ala Gly Cys Cys Ala Gly Ala Arg Lys Pro Asn
 1 5 10 15
 Phe Arg Asn Ala Ile Ala Val Met Lys Gln Leu Trp Phe Ala Met Ser
 20 25 30
 Leu Met Ala Gly Ser Leu Phe Phe Ser Ala Asn Ala Ser Ala Asp Val
 35 40 45
 Ser Ser Gly Ala Leu Leu Gln Gln Met Asn Leu Ala Ser Gln Ser Leu
 50 55 60
 Asn Tyr Glu Leu Ala Phe Ile Ser Ile Asn Lys Gln Gly Val Glu Ser
 65 70 75 80
 Leu Arg Tyr Arg His Ala Arg Leu Asp Asn Gln Pro Leu Ala Gln Leu
 85 90 95
 Leu Gln Met Asp Gly Pro Arg Arg Glu Val Val Gln Arg Gly Asn Glu
 100 105 110
 Ile Ser Tyr Phe Glu Pro Gly Leu Glu Pro Phe Thr Leu Asn Gly Asp
 115 120 125
 Tyr Ile Val Asp Ser Leu Pro Ser Leu Ile Tyr Thr Asp Phe Lys Arg
 130 135 140
 Leu Ala Pro Tyr Tyr Asp Phe Ile Ser Val Gly Arg Thr Arg Ile Ala
 145 150 155 160
 Asp Arg Leu Cys Glu Val Ile Arg Val Val Ala Arg Asp Gly Thr Arg
 165 170 175
 Tyr Ser Tyr Ile Val Trp Ile Asp Ala Glu Thr Lys Leu Pro Met Arg
 180 185 190
 Val Asp Leu Leu Asp Arg Asp Gly Glu Thr Leu Glu Gln Phe Arg Val
 195 200 205
 Ile Ser Phe Asp Val Asn Ser Gln Val Gly Asn Ser Met Gln Tyr Leu
 210 215 220
 Ala Lys Ala Ser Leu Pro Pro Leu Leu Ser Val Pro Ala Gly Asp Ser
 225 230 235 240
 Val Asn Phe Asn Trp Val Pro Ser Trp Ile Pro Gln Gly Phe Ser Glu
 245 250 255
 Val Ser Ser Ser Arg Arg Gln Leu Pro Thr Ile Glu Thr Pro Val Glu
 260 265 270
 Ser Arg Leu Tyr Ser Asp Gly Leu Phe Ser Phe Ser Val Asn Ile Asn
 275 280 285
 Arg Ala Thr Ala Asn Ser Ser Glu Gln Met Leu Arg Thr Gly Arg Arg
 290 295 300
 Thr Val Ser Thr Thr Val Arg Asp Asn Ala Glu Ile Thr Ile Val Gly
 305 310 315 320
 Glu Leu Pro Pro Pro Thr Ala Lys Arg Ile Ser Asp Ser Ile Lys Phe
 325 330 335
 Arg Ala Ala Gln
 340

<210> 6088

<211> 81

<212> PRT

<213> Enterobacter cloacae

<400> 6088

```

Arg Leu Ser Leu Leu Val Gly Arg His Leu Lys Ile Tyr Phe Val Phe
1          5          10          15
Arg Leu Gln Gln Asn Ala Phe Leu His Thr Gly Leu His Met Arg Leu
          20          25          30
Arg Lys Leu Lys Leu Lys Asn Phe Arg Gly Tyr Arg Asn Ser Thr Glu
          35          40          45
Ile Ile Ile Asp Glu Ser Met Thr Gly Ile Val Gly Arg Asn Asp Phe
          50          55          60
Gly Lys Ser Thr Leu Leu Glu Ala Leu Ala Ile Phe Phe Glu Thr Glu
65          70          75          80

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<210> 6089

<211> 272

<212> PRT

<213> Enterobacter cloacae

<400> 6089

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Asp Ile Thr Ser Glu Asn Leu Asp Ala Arg Leu Glu Arg Thr Arg Val
1          5          10          15
Pro Ile Glu Leu Glu Gln Leu Val Ile Ser Phe Asn His Met Ile Gly
          20          25          30
Lys Ile Glu Asp Val Phe Thr Arg Gln Ala Asn Phe Ser Ala Asp Ile
          35          40          45
Ala His Glu Ile Arg Thr Pro Ile Thr Asn Leu Val Thr Gln Thr Asp
          50          55          60
Ile Ala Leu Ser Gln Asp Arg Thr Gln Arg Glu Leu Glu Asp Val Leu
65          70          75          80
Tyr Ser Ser Leu Glu Glu Tyr Asn Arg Met Thr Lys Met Val Ser Asp
          85          90          95
Met Leu Phe Leu Ala Gln Ala Asp Asn Asn Gln Leu Ile Pro Asp Arg
          100          105          110
Val Met Phe Asp Leu Arg Ala Glu Val Met Lys Val Phe Glu Phe Phe
          115          120          125
Glu Ala Trp Ala Glu Glu Arg Asn Ile Thr Leu Lys Phe Asn Gly Met
          130          135          140
Pro Cys Leu Val Glu Gly Asp Pro Gln Met Phe Arg Arg Ala Ile Asn
145          150          155          160
Asn Leu Leu Ser Asn Ala Leu Arg Tyr Thr Pro Glu Gly Gln Ala Ile
          165          170          175
Thr Val Ser Ile Arg Glu Gln Glu Ser Phe Phe Asp Leu Val Ile Glu
          180          185          190
Asn Pro Gly Lys Pro Ile Pro Glu His Leu Ser Arg Leu Phe Asp
          195          200          205
Arg Phe Tyr Arg Val Asp Pro Ser Arg Gln Arg Lys Gly Glu Gly Ser
          210          215          220
Gly Ile Gly Leu Ala Ile Val Lys Ser Ile Val Glu Ala His His Gly
225          230          235          240
Arg Val Gln Val Glu Ser Asp Val His Ser Thr Arg Phe Ile Leu Ser
          245          250          255
Val Pro Arg Leu Glu Lys Met Ile Pro Asp Thr Gln Cys Trp Glu
          260          265          270

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<210> 6090

<211> 148

<212> PRT

<213> Enterobacter cloacae

<400> 6090

Pro Asp Ile Trp Gln His Leu Cys Pro Leu Gln Gly His Phe Tyr Gln
 1 5 10 15
 Ile Leu Leu Gln Leu Thr Gly Ile Asn Ala Lys Arg Ile Phe Phe Met
 20 25 30
 Lys Ala Arg Asn Thr Leu Phe Ala Val Leu Met Leu Ser Leu Pro Ala
 35 40 45
 Ile Ser Ala Glu His Ser Glu Met Lys Met Thr Asp Met Ser Thr Ser
 50 55 60
 Ala Ser Ser Gln Glu Tyr Met Ala Gly Met Lys Asp Met His Asp Lys
 65 70 75 80
 Met Met Ala Ala Val Asn Glu Ser Asp Pro Asp Lys Ala Phe Ala Lys
 85 90 95
 Gly Met Val Ala His His Glu Gly Ala Ile Ala Met Ala Glu Thr Glu
 100 105 110
 Leu Lys Tyr Gly Lys Asp Pro Lys Met Arg Lys Leu Ala Gln Asp Ile
 115 120 125
 Ile Lys Ala Gln Lys Gly Glu Ile Glu Gln Met Asn Lys Trp Leu Asp
 130 135 140
 Ser Gln Lys
 145

<210> 6091

<211> 234

<212> PRT

<213> Enterobacter cloacae

<400> 6091

Phe Arg Thr Pro Ser Ala Gly Asn Lys Asp Leu Asn Asp Lys Asp Val
 1 5 10 15
 Ile Ser Leu Ser Cys Ser Lys Gln Lys Pro Phe Asp Ile Ile Ser Ala
 20 25 30
 Thr Tyr Gln Glu Gly Trp Ile Ala Leu Ser Ile Ser Gly Val Ser Gly
 35 40 45
 Arg Gln Glu Met Asn Ile Gln Ser Pro Pro Gly Glu Ile Asn Thr Ser
 50 55 60
 Glu Pro Val Ser Val Met Glu Leu Lys Thr Pro Val Val Leu Pro Arg
 65 70 75 80
 Thr Ser Leu Ile Lys Lys Trp Arg Val Ile Met Lys Asn Ile Val Leu
 85 90 95
 Ala Ser Leu Leu Gly Phe Gly Leu Ile Ser Ser Ala Trp Ala Thr Glu
 100 105 110
 Thr Val Asn Ile His Glu Arg Val Asn Asn Ala Gln Ala Pro Ala His
 115 120 125
 Gln Met Gln Ser Ala Ala Ala Pro Val Gly Ile Gln Gly Thr Ala Pro
 130 135 140
 Arg Met Ala Gly Met Asp Gln His Glu Gln Ala Ile Ile Ala His Glu
 145 150 155 160
 Thr Met Thr Asn Gly Ser Ala Asp Ala His Gln Lys Met Val Glu Ser
 165 170 175
 His Gln Arg Met Met Gly Ser Gln Thr Val Ser Pro Thr Gly Pro Ser
 180 185 190
 Lys Ser Leu Ala Ala Met Asn Glu His Glu Arg Ala Ala Val Ala His
 195 200 205
 Glu Phe Met Asn Asn Gly Gln Ser Gly Pro His Gln Ala Met Ala Glu
 210 215 220
 Ala His Arg Arg Met Leu Ser Ala Gly
 225 230

<210> 6092

<211> 132

<212> PRT

<213> Enterobacter cloacae

<400> 6092

```

Leu Gly Arg Val Ala Cys Gly Leu Leu Leu Leu Ala Gly Cys Arg Cys
1      5      10      15
Cys Val Gly Phe Pro Gly Gly Ala Ala Leu Arg Leu Ala Val Arg Val
20      25      30
Arg Phe Cys Arg Cys Phe Ala Gly Arg Leu Leu Arg Ala Leu Leu Pro
35      40      45
Leu Leu Pro Ser Leu Ser Val Gly Ala Gly Gly Gly Leu Ala Pro Phe
50      55      60
Phe Phe Ser Ala Cys Ala Leu Pro Phe Phe Leu Pro Ser Ser Ser Phe
65      70      75      80
Pro Ser Leu Pro Tyr Ser Val Tyr Thr Ile Asp Glu His Leu Asp Met
85      90      95
Leu Met Val Cys His His Leu Asp Pro Asp Ile Ala Glu Asp Val Ala
100     105     110
Phe Ala Glu Ser Arg Ile Arg Arg Glu Thr Ile Ala Ala Glu Asp Val
115     120     125
Leu His Asp Ile
130

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<210> 6093

<211> 256

<212> PRT

<213> Enterobacter cloacae

<220>

<221>UNSURE

<222>(45)

<220>

<221>UNSURE

<222>(46)

<220>

<221>UNSURE

<222>(47)

<220>

<221>UNSURE

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<221>UNSURE

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<221>UNSURE

<222>(56)

<220>

<221>UNSURE

<222>(57)

<220>

<221>UNSURE

<222>(58)

<400> 6093

Arg	Tyr	Arg	Thr	Pro	Leu	Pro	Ala	Leu	Pro	Arg	Thr	Tyr	Gln	Tyr	Ala
1				5					10					15	
Arg	Pro	Leu	Phe	Leu	His	Ala	Gly	Arg	Thr	Gly	Asp	Gln	Arg	Thr	Ser
			20					25					30		
Glu	Thr	Ile	Lys	Arg	Gly	Val	Arg	Gly	Arg	Lys	Arg	Xaa	Xaa	Xaa	Xaa
		35					40					45			
Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Leu	Ala	Ala	Pro	Gly	Ser
	50					55				60					
Arg	Ser	Met	Gln	Glu	Trp	Arg	Pro	Ala	Arg	Arg	Arg	Arg	Ala	His	Arg
65					70				75					80	
Ala	Arg	Phe	Val	Val	Gln	Thr	Tyr	Val	Gly	Pro	Phe	Glu	Phe	Gly	Leu
				85					90					95	
Asp	Ser	Val	Thr	Leu	Leu	Pro	Tyr	Ser	Cys	Thr	Glu	Ser	Ser	Asp	Met
			100					105					110		
Glu	Asn	Asn	Leu	Glu	Asn	Leu	Thr	Ile	Gly	Val	Phe	Ala	Lys	Ala	Ala
	115						120					125			
Gly	Val	Asn	Val	Glu	Thr	Ile	Arg	Phe	Tyr	Gln	Arg	Lys	Gly	Leu	Leu
	130					135					140				
Arg	Glu	Pro	Asp	Lys	Pro	Tyr	Gly	Ser	Ile	Arg	Arg	Tyr	Gly	Glu	Ala
145					150					155				160	
Asp	Val	Val	Arg	Val	Lys	Phe	Val	Lys	Ser	Ala	Gln	Arg	Leu	Gly	Phe
				165					170					175	
Ser	Leu	Asp	Glu	Ile	Ala	Glu	Leu	Leu	Arg	Leu	Asp	Asp	Gly	Thr	His
			180					185					190		
Cys	Glu	Glu	Ala	Ser	Ser	Leu	Ala	Glu	His	Lys	Leu	Lys	Asp	Val	Arg
	195						200					205			
Glu	Lys	Met	Ala	Asp	Leu	Ala	Arg	Met	Glu	Thr	Val	Leu	Ser	Glu	Leu
	210					215					220				
Val	Cys	Ala	Cys	His	Ala	Arg	Lys	Gly	Asn	Val	Ser	Cys	Pro	Leu	Ile
225					230					235				240	
Ala	Ser	Leu	Gln	Gly	Glu	Ala	Gly	Leu	Ala	Arg	Ser	Ala	Met	Pro	
				245					250					255	

<210> 6094

<211> 117

<212> PRT

<213> Enterobacter cloacae

<400> 6094

Ala Phe Ile Arg Arg Thr Ile Met Glu Asn Ile Ala Leu Ile Gly Ile
 1 5 10 15
 Asp Leu Gly Lys Asn Ser Phe His Ile His Cys Gln Asp Arg Arg Gly
 20 25 30
 Lys Ala Val Tyr Arg Lys Lys Phe Thr Arg Pro Lys Leu Ile Glu Phe
 35 40 45
 Leu Ala Thr Cys Pro Ala Thr Thr Ile Ala Met Glu Ala Cys Gly Gly
 50 55 60
 Ser His Phe Met Ala Arg Lys Leu Glu Glu Leu Gly His Phe Pro Lys
 65 70 75 80
 Leu Ile Ser Pro Gln Phe Val Arg Pro Phe Val Asn Tyr Ile Lys Asn
 85 90 95
 Asp Phe Val Asp Ala Glu Ala Ile Cys Glu Ala Ala Ser Arg Pro Ser
 100 105 110
 Met Arg Phe Val His
 115

<210> 6095

<211> 1074

<212> PRT

<213> Enterobacter cloacae

<220>

<221> UNSURE

<222> (1060)

<220>

<221> UNSURE

<222> (1061)

<220>

<221> UNSURE

<222> (1062)

<220>

<221> UNSURE

<222> (1063)

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<222> (1068)

<220>

<221> UNSURE

<222>(1069)

<220>

<221>UNSURE

<222>(1070)

<220>

<221>UNSURE

<222>(1071)

<220>

<221>UNSURE

<222>(1072)

<400> 6095

```

Pro Lys Ser Arg Ile Lys Met Tyr Leu Lys Ser Asn Ile Gly Gln Leu
1      5      10      15
Met Ser Ile Ile Thr Asn Leu Arg Phe Asn Arg His Ile Asn Val Thr
20      25      30
Val Leu Arg Cys Pro Ile Ile Tyr Asn Ile Ser Tyr Gly Trp Lys Asn
35      40      45
Val Thr Lys Cys Pro Ser Gly Arg Glu Ala Asp Met Pro Val Asp Phe
50      55      60
Leu Thr Thr Glu Gln Thr Glu Ser Tyr Gly Arg Phe Thr Gly Glu Pro
65      70      75      80
Asp Glu Leu Gln Leu Ala Arg Tyr Phe His Leu Asp Glu Ala Asp Lys
85      90      95
Glu Phe Ile Gly Lys Ser Arg Gly Asp His Asn Arg Leu Gly Ile Ala
100     105     110
Leu Gln Ile Gly Cys Val Arg Phe Leu Gly Thr Phe Leu Thr Asp Met
115     120     125
Asn His Ile Pro Ser Gly Val Arg His Phe Thr Ala Arg Gln Leu Gly
130     135     140
Ile Arg Asp Ile Thr Val Leu Ala Glu Tyr Gly Gln Arg Glu Asn Thr
145     150     155     160
Arg Arg Glu His Ala Ala Leu Ile Arg Gln His Tyr Gln Tyr Arg Glu
165     170     175
Phe Ala Trp Pro Trp Thr Phe Arg Leu Thr Arg Leu Leu Tyr Thr Arg
180     185     190
Ser Trp Ile Ser Asn Glu Arg Pro Gly Leu Leu Phe Asp Leu Ala Thr
195     200     205
Gly Trp Leu Met Gln His Arg Ile Ile Leu Pro Gly Ala Thr Thr Leu
210     215     220
Thr Arg Leu Ile Ser Glu Val Arg Glu Lys Ala Thr Leu Arg Leu Trp
225     230     235     240
Asn Lys Leu Ala Leu Ile Pro Ser Ala Glu Gln Arg Ser Gln Leu Glu
245     250     255
Met Leu Leu Gly Pro Thr Asp Cys Ser Arg Leu Ser Leu Leu Glu Ser
260     265     270
Leu Lys Lys Gly Pro Val Thr Ile Ser Gly Pro Ala Phe Asn Glu Ala
275     280     285
Ile Glu Arg Trp Lys Thr Leu Asn Asp Phe Gly Leu His Ala Glu Asn
290     295     300
Leu Ser Thr Leu Pro Ala Val Arg Leu Lys Asn Leu Ala Arg Tyr Ala
305     310     315     320
Gly Met Thr Ser Val Phe Asn Ile Ala Arg Met Ser Pro Gln Lys Arg
325     330     335
Met Ala Val Leu Val Ala Phe Val Leu Ala Trp Glu Thr Leu Ala Leu
340     345     350
Asp Asp Ala Leu Asp Val Leu Asp Ala Met Leu Ala Val Ile Ile Arg
355     360     365

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Asp Ala Arg Lys Ile Gly Gln Lys Lys Arg Leu Arg Ser Leu Lys Asp
 370 375 380
 Leu Asp Lys Ser Ala Leu Ala Leu Ala Ser Ala Cys Ser Tyr Leu Leu
 385 390 395 400
 Lys Glu Glu Thr Pro Asp Glu Ser Ile Arg Ala Glu Val Phe Ser Tyr
 405 410 415
 Ile Pro Arg Gln Lys Leu Ala Glu Ile Ile Thr Leu Val Arg Glu Ile
 420 425 430
 Ala Arg Pro Ser Asp Asp Asn Phe His Glu Glu Met Val Glu Gln Tyr
 435 440 445
 Gly Arg Val Arg Arg Phe Leu Pro His Leu Leu Asn Thr Val Lys Phe
 450 455 460
 Ser Ser Ala Pro Ala Gly Val Thr Thr Leu Asn Ala Cys Asp Tyr Leu
 465 470 475 480
 Ser Arg Glu Phe Ser Ser Arg Arg Gln Phe Phe Asp Asp Ala Pro Thr
 485 490 495
 Glu Ile Ile Ser Arg Ser Trp Lys Arg Leu Val Ile Asn Lys Glu Lys
 500 505 510
 His Ile Thr Arg Arg Gly Tyr Thr Leu Cys Phe Leu Ser Lys Leu Gln
 515 520 525
 Asp Ser Leu Arg Arg Arg Asp Val Tyr Val Thr Gly Ser Asn Arg Trp
 530 535 540
 Gly Asp Pro Arg Ala Arg Leu Leu Gln Gly Ala Asp Trp Gln Ala Asn
 545 550 555 560
 Arg Ile Lys Val Tyr Arg Ser Leu Gly His Pro Thr Asp Pro Gln Glu
 565 570 575
 Ala Ile Lys Ser Leu Gly His Gln Leu Asp Ser Arg Tyr Arg Gln Val
 580 585 590
 Ala Ala Arg Leu Cys Glu Asn Glu Ala Val Glu Leu Asp Val Ser Gly
 595 600 605
 Pro Lys Pro Arg Leu Thr Ile Ser Pro Leu Ala Ser Leu Asp Glu Pro
 610 615 620
 Asp Ser Leu Lys Arg Leu Ser Lys Met Ile Ser Asp Leu Leu Pro Pro
 625 630 635 640
 Val Asp Leu Thr Glu Leu Leu Leu Glu Ile Asn Ala His Thr Gly Phe
 645 650 655
 Ala Asp Glu Phe Phe His Ala Ser Glu Ala Ser Ala Arg Val Asp Asp
 660 665 670
 Leu Pro Val Ser Ile Ser Ala Val Leu Met Ala Glu Ala Cys Asn Ile
 675 680 685
 Gly Leu Glu Pro Leu Ile Arg Ser Asn Val Pro Ala Leu Thr Arg His
 690 695 700
 Arg Leu Asn Trp Thr Lys Ala Asn Tyr Leu Arg Ala Glu Thr Ile Thr
 705 710 715 720
 Ser Ala Asn Ala Arg Leu Val Asp Phe Gln Ala Thr Leu Pro Leu Ala
 725 730 735
 Gln Ile Trp Gly Gly Gly Glu Val Ala Ser Ala Asp Gly Met Arg Phe
 740 745 750
 Val Thr Pro Val Arg Thr Ile Asn Ala Gly Pro Asn Arg Lys Tyr Phe
 755 760 765
 Gly Asn Asn Arg Gly Ile Thr Trp Tyr Asn Phe Val Ser Asp Gln Tyr
 770 775 780
 Ser Gly Phe His Gly Ile Val Ile Pro Gly Thr Leu Arg Asp Ser Ile
 785 790 795 800
 Phe Val Leu Glu Gly Leu Leu Glu Gln Glu Thr Gly Leu Asn Pro Thr
 805 810 815
 Glu Ile Met Thr Asp Thr Ala Gly Ala Ser Glu Leu Val Phe Gly Leu
 820 825 830
 Phe Trp Leu Leu Gly Tyr Gln Phe Ser Pro Arg Leu Ala Asp Ala Gly
 835 840 845
 Ala Ser Val Phe Trp Arg Met Asp His Asp Ala Asp Tyr Gly Val Leu

850 855 860
 Asn Asp Ile Ala Arg Gly Gln Ser Asp Pro Arg Lys Ile Val Leu Gln
 865 870 875 880
 Trp Asp Glu Met Ile Arg Thr Ala Gly Ser Leu Lys Leu Gly Lys Val
 885 890 895
 Gln Val Ser Val Leu Val Arg Ser Leu Leu Lys Ser Glu Arg Pro Ser
 900 905 910
 Gly Leu Thr Gln Ala Ile Ile Glu Val Gly Arg Ile Asn Lys Thr Leu
 915 920 925
 Tyr Leu Leu Asn Tyr Ile Asp Asp Glu Asp Tyr Arg Arg Arg Ile Leu
 930 935 940
 Thr Gln Leu Asn Arg Gly Glu Ser Arg His Ala Val Ala Arg Ala Ile
 945 950 955 960
 Cys His Gly Gln Lys Gly Glu Ile Arg Lys Arg Tyr Thr Asp Gly Gln
 965 970 975
 Glu Asp Gln Leu Gly Thr Leu Gly Leu Val Thr Asn Ala Val Val Leu
 980 985 990
 Trp Asn Thr Ile Tyr Met Gln Ala Ala Leu Asp His Leu Arg Ala Gln
 995 1000 1005
 Gly Glu Thr Leu Asn Asp Glu Asp Ile Ala Arg Leu Ser Pro Leu Cys
 1010 1015 1020
 His Gly His Ile Asn Met Leu Gly His Tyr Ser Phe Thr Leu Ala Glu
 1025 1030 1035 1040
 Leu Val Thr Lys Gly His Leu Arg Pro Leu Lys Glu Ala Ser Glu Ala
 1045 1050 1055
 Glu Asn Val Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
 1060 1065 1070
 Tyr

<210> 6096
 <211> 133
 <212> PRT
 <213> Enterobacter cloacae

<400> 6096
 Arg Asp Gln Arg Ala Gly Asn Ile Pro Leu Ser Cys Met Ala Gly Ala
 1 5 10 15
 His Glu Phe Arg Gln His Gly Phe His Ala Arg Gln Val Gly His Leu
 20 25 30
 Leu Ala His Val Leu Glu Leu Val Phe Gly Gln Ala Ala Gly Leu Leu
 35 40 45
 Ala Val Gly Ala Ile Val Glu Pro Gln Gln Leu Gly Asn Leu Val Gln
 50 55 60
 Thr Glu Pro Gln Pro Leu Cys Arg Phe His Glu Phe His Pro Asn His
 65 70 75 80
 Val Arg Leu Pro Ile Ala Ala Asp Ala Ala Val Arg Leu Val Arg Phe
 85 90 95
 Pro Gln Gln Ala Leu Ala Leu Ile Glu Ala Asp Cys Leu His Val Asp
 100 105 110
 Pro Gly Arg Leu Gly Lys Asn Ala Asn Gly Gln Val Phe Gln Ile Ile
 115 120 125
 Phe His Ile Ala
 130

<210> 6097
 <211> 146
 <212> PRT
 <213> Enterobacter cloacae

<400> 6097

Arg Ala Arg Phe Phe Arg Arg Thr Ala Gly Ser Val Leu Arg Phe Ser
 1 5 10 15
 Ala Cys Arg Pro Lys Ser Phe Arg Val Phe Gln Arg Ser Ile Ala Ser
 20 25 30
 Leu Asn Ala Gly Pro Leu Met Val Thr Gly Pro Phe Phe Ser Asp Ser
 35 40 45
 Ser Lys Asp Arg Arg Leu Gln Ser Val Gly Pro Ser Ser Ile Ser Ser
 50 55 60
 Cys Glu Arg Cys Ser Ala Asp Gly Ile Ser Ala Ser Leu Phe His Arg
 65 70 75 80
 Arg Asn Val Ala Phe Ser Leu Thr Ser Glu Ile Asn Arg Val Ser Val
 85 90 95
 Val Ala Pro Gly Arg Ile Ile Arg Cys Cys Ile Ser His Pro Val Ala
 100 105 110
 Arg Ser Lys Ser Arg Pro Gly Arg Ser Leu Leu Ile Gln Leu Arg Val
 115 120 125
 Tyr Lys Arg Arg Val Arg Arg Asn Val Gln Gly Gln Ala Asn Ser Arg
 130 135 140
 Tyr
 145

<210> 6098

<211> 213

<212> PRT

<213> Enterobacter cloacae

<400> 6098

Ile Ile Gly His Arg Lys Thr Val Thr Leu Ile Cys Leu Leu Asn Arg
 1 5 10 15
 Lys Phe Val Ile Ile Asp Met Ser Cys Pro Ile Phe Asp Leu Arg Tyr
 20 25 30
 Ile Phe Met Arg Leu Phe Gly Tyr Ala Arg Val Ser Thr Ser Gln Gln
 35 40 45
 Ser Leu Asp Leu Gln Val Arg Ala Leu Lys Asp Ala Gly Val Lys Ala
 50 55 60
 Asn Arg Ile Phe Thr Asp Lys Ala Ser Gly Ser Ser Thr Asp Arg Glu
 65 70 75 80
 Gly Leu Asp Leu Leu Arg Met Lys Val Glu Glu Gly Asp Val Ile Leu
 85 90 95
 Val Lys Lys Leu Asp Arg Leu Gly Arg Asp Thr Ala Asp Met Ile Gln
 100 105 110
 Leu Ile Lys Glu Phe Asp Ala Gln Gly Val Ala Val Arg Phe Ile Asp
 115 120 125
 Asp Gly Ile Ser Thr Asp Gly Asp Met Gly Gln Met Val Val Thr Ile
 130 135 140
 Leu Ser Ala Val Ala Gln Ala Glu Arg Arg Arg Ile Leu Glu Arg Thr
 145 150 155 160
 Asn Glu Gly Arg Gln Glu Ala Lys Leu Lys Gly Ile Lys Phe Gly Gly
 165 170 175
 Pro Arg Gln Ala Tyr Arg Gly Gln Glu Arg Arg Ala Asp Ala Ser Ser
 180 185 190
 Glu Gly His Trp Cys Asn Gly Asn Cys Ser Ser Ala Gln Tyr Cys Pro
 195 200 205
 Leu His Gly Leu
 210

<210> 6099

<211> 99

<212> PRT

<213> Enterobacter cloacae

<400> 6099

Gly Ile Ala Asp Leu Ala Arg Pro Ala Ser Pro Cys Ser Asp Ala Ile
 1 5 10 15
 Asn Gly Gln Glu Thr Phe Pro Phe Arg Ala Trp Gln Ala His Thr Ser
 20 25 30
 Ser Asp Ser Thr Val Ser Met Arg Ala Lys Ser Ala Ile Phe Ser Arg
 35 40 45
 Thr Ser Leu Ser Leu Cys Ser Ala Arg Leu Leu Ala Ser Ser Gln Trp
 50 55 60
 Val Pro Ser Ser Ser Arg Asn Ser Ser Ala Ile Ser Ser Arg Leu Asn
 65 70 75 80
 Pro Ser Arg Cys Ala Asp Phe Thr Asn Phe Thr Arg Thr Thr Ser Ala
 85 90 95
 Ser Pro

<210> 6100

<211> 234

<212> PRT

<213> Enterobacter cloacae

<400> 6100

Leu Arg Leu Ala Asp Asn Pro Ser Ile Arg Leu Gln Ser Val Gln Gln
 1 5 10 15
 Val Phe Ser Ile Leu Asn Gln Glu Thr Glu Met Ser Tyr Ser Gly Glu
 20 25 30
 Arg Asp Asn Phe Ala Pro His Met Ala Leu Val Pro Met Val Ile Glu
 35 40 45
 Gln Thr Ser Arg Gly Glu Arg Ser Phe Asp Ile Tyr Ser Arg Leu Leu
 50 55 60
 Lys Glu Arg Val Ile Phe Leu Thr Gly Gln Val Glu Asp His Met Ala
 65 70 75 80
 Asn Leu Ile Val Ala Gln Met Leu Phe Leu Glu Ala Glu Asn Pro Glu
 85 90 95
 Lys Asp Ile Tyr Leu Tyr Ile Asn Ser Pro Gly Gly Val Ile Thr Ala
 100 105 110
 Gly Met Ser Ile Tyr Asp Thr Met Gln Phe Ile Lys Pro Asp Val Ser
 115 120 125
 Thr Ile Cys Met Gly Gln Ala Ser Met Gly Ala Phe Leu Leu Thr
 130 135 140
 Ala Gly Ala Lys Gly Lys Arg Phe Cys Leu Pro Asn Ser Arg Val Met
 145 150 155 160
 Ile His Gln Pro Leu Gly Gly Tyr Gln Gly Gln Ala Thr Asp Ile Glu
 165 170 175
 Ile His Ala Arg Glu Ile Leu Lys Val Lys Ala Arg Met Asn Glu Leu
 180 185 190
 Met Ala Gln His Thr Gly Gln Pro Leu Glu Gln Ile Glu Arg Asp Thr
 195 200 205
 Glu Arg Asp Arg Phe Leu Ser Ala Pro Glu Ala Val Glu Tyr Gly Leu
 210 215 220
 Val Asp Ser Ile Leu Thr His Arg Asn
 225 230

<210> 6101

<211> 444

<212> PRT

<213> Enterobacter cloacae

<400> 6101

Glu Trp His Leu Arg Arg His Val Arg His Ile Glu Leu Lys Lys Arg
 1 5 10 15

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Phe Gly Leu Met Thr Asp Lys Arg Lys Asp Gly Ser Gly Lys Leu Leu
      20      25      30
Tyr Cys Ser Phe Cys Gly Lys Ser Gln His Glu Val Arg Lys Leu Ile
      35      40      45
Ala Gly Pro Ser Val Tyr Ile Cys Asp Glu Cys Val Asp Leu Cys Asn
      50      55      60
Asp Ile Ile Arg Glu Glu Ile Lys Glu Val Ala Pro His Arg Glu Arg
      65      70      75      80
Ser Ala Leu Pro Thr Pro His Glu Ile Arg His His Leu Asp Asp Tyr
      85      90      95
Val Ile Gly Gln Glu Gln Ala Lys Lys Val Leu Ala Val Ala Val Tyr
      100      105      110
Asn His Tyr Lys Arg Leu Arg Asn Gly Asp Thr Ser Asn Gly Val Glu
      115      120      125
Leu Gly Lys Ser Asn Ile Leu Leu Ile Gly Pro Thr Gly Ser Gly Lys
      130      135      140
Thr Leu Leu Ala Glu Thr Leu Ala Arg Leu Leu Asp Val Pro Phe Thr
      145      150      155      160
Met Ala Asp Ala Thr Thr Leu Thr Glu Ala Gly Tyr Val Gly Glu Asp
      165      170      175
Val Glu Asn Ile Ile Gln Lys Leu Leu Gln Lys Cys Asp Tyr Asp Val
      180      185      190
Gln Lys Ala Gln Arg Gly Ile Val Tyr Ile Asp Glu Ile Asp Lys Ile
      195      200      205
Ser Arg Lys Ser Asp Asn Pro Ser Ile Thr Arg Asp Val Ser Gly Glu
      210      215      220
Gly Val Gln Gln Ala Leu Leu Lys Leu Ile Glu Gly Thr Val Ala Ala
      225      230      235      240
Val Pro Pro Gln Gly Arg Lys His Pro Gln Gln Glu Phe Leu Gln
      245      250      255
Val Asp Thr Ser Lys Ile Leu Phe Ile Cys Gly Gly Ala Phe Ala Gly
      260      265      270
Leu Asp Lys Val Ile Ser His Arg Val Glu Thr Gly Ser Gly Ile Gly
      275      280      285
Phe Gly Ala Thr Val Lys Ala Thr Ser Glu Lys Pro Asn Glu Gly Gln
      290      295      300
Leu Leu Ala Gln Val Glu Pro Glu Asp Leu Ile Lys Phe Gly Leu Ile
      305      310      315      320
Pro Glu Phe Ile Gly Arg Leu Pro Val Val Ala Thr Leu Asn Glu Leu
      325      330      335
Ser Glu Asp Ala Leu Ile Gln Ile Leu Lys Glu Pro Lys Asn Ala Leu
      340      345      350
Thr Lys Gln Tyr Gln Ala Leu Phe Asn Leu Glu Gly Val Glu Leu Glu
      355      360      365
Phe Arg Asp Glu Ala Leu Asp Ala Ile Ala Lys Lys Ala Met Ala Arg
      370      375      380
Lys Thr Gly Ala Arg Gly Leu Arg Ser Ile Val Glu Ala Ala Leu Leu
      385      390      395      400
Asp Thr Met Tyr Asp Leu Pro Ser Met Glu Asp Val Glu Lys Val Val
      405      410      415
Ile Asp Glu Ser Val Ile Gly Gly Gln Thr Lys Pro Leu Leu Ile Tyr
      420      425      430
Gly Lys Pro Glu Ala Gln Gln Ala Ser Gly Glu
      435      440

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<210> 6102

<211> 565

<212> PRT

<213> Enterobacter cloacae

<400> 6102

Pro Val Tyr Leu Ala Asp Thr Lys Leu Arg Glu Ser Ser Met Asn Pro
 1 5 10 15
 Glu Arg Ser Glu Arg Ile Glu Ile Pro Val Leu Pro Leu Arg Asp Val
 20 25 30
 Val Val Tyr Pro His Met Val Ile Pro Leu Phe Val Gly Arg Glu Lys
 35 40 45
 Ser Ile Arg Cys Leu Glu Ala Met Asp His Asp Lys Lys Ile Met
 50 55 60
 Leu Val Ala Gln Lys Glu Ala Ser Thr Asp Glu Pro Gly Val Asn Asp
 65 70 75 80
 Leu Phe Thr Val Gly Thr Val Ala Ser Ile Leu Gln Met Leu Lys Leu
 85 90 95
 Pro Asp Gly Thr Val Lys Val Leu Val Glu Gly Leu Gln Arg Ala Arg
 100 105 110
 Ile Thr Thr Leu Ser Asp Asp Gly Glu His Phe Ser Ala Lys Ala Glu
 115 120 125
 Tyr Leu Asp Ser Pro Glu Leu Asp Glu Arg Glu Gln Glu Val Leu Val
 130 135 140
 Arg Thr Ala Ile Ser Gln Phe Glu Gly Tyr Ile Lys Leu Asn Lys Lys
 145 150 155 160
 Ile Pro Pro Glu Val Leu Thr Ser Leu Asn Ser Ile Asp Asp Pro Ala
 165 170 175
 Arg Leu Ala Asp Thr Ile Ala Ala His Met Pro Leu Lys Leu Ala Asp
 180 185 190
 Lys Gln Ser Val Leu Glu Met Ser Asp Val Asn Glu Arg Leu Glu Tyr
 195 200 205
 Leu Met Ala Met Met Glu Ser Glu Ile Asp Leu Leu Gln Val Glu Lys
 210 215 220
 Arg Ile Arg Asn Arg Val Lys Lys Gln Met Glu Lys Ser Gln Arg Glu
 225 230 235 240
 Tyr Tyr Leu Asn Glu Gln Met Lys Ala Ile Gln Lys Glu Leu Gly Glu
 245 250 255
 Met Asp Asp Ala Pro Asp Glu Asn Glu Ala Leu Lys Arg Lys Ile Asp
 260 265 270
 Ala Ala Lys Met Pro Lys Glu Ala Lys Glu Lys Ala Glu Ala Glu Leu
 275 280 285
 Gln Lys Leu Lys Met Met Ser Pro Met Ser Ala Glu Ala Thr Val Val
 290 295 300
 Arg Gly Tyr Ile Glu Trp Met Val Gln Val Pro Trp Asn Ala Arg Ser
 305 310 315 320
 Lys Val Lys Lys Asp Leu Arg Gln Ala Gln Glu Ile Leu Asp Thr Asp
 325 330 335
 His Tyr Gly Leu Glu Arg Val Lys Asp Arg Ile Leu Glu Tyr Leu Ala
 340 345 350
 Val Gln Ser Arg Val Asn Lys Ile Lys Gly Pro Ile Leu Cys Leu Val
 355 360 365
 Gly Pro Pro Gly Val Gly Lys Thr Ser Leu Gly Gln Ser Ile Ala Lys
 370 375 380
 Ala Thr Gly Arg Lys Tyr Ile Arg Met Ala Leu Gly Gly Val Arg Asp
 385 390 395 400
 Glu Ala Glu Ile Arg Gly His Arg Arg Thr Tyr Ile Gly Ser Met Pro
 405 410 415
 Gly Lys Leu Ile Gln Lys Met Ala Lys Val Gly Val Lys Asn Pro Leu
 420 425 430
 Phe Leu Leu Asp Glu Ile Asp Lys Met Ser Ser Asp Met Arg Gly Asp
 435 440 445
 Pro Ala Ser Ala Leu Leu Glu Val Leu Asp Pro Glu Gln Asn Val Ala
 450 455 460
 Phe Ser Asp His Tyr Leu Glu Val Asp Tyr Asp Leu Ser Asp Val Met
 465 470 475 480
 Phe Val Ala Thr Ser Asn Ser Met Asn Ile Pro Ala Pro Leu Leu Asp

				485					490					495			
Arg	Met	Glu	Val	Ile	Arg	Leu	Ser	Gly	Tyr	Thr	Glu	Asp	Glu	Lys	Leu		
			500					505					510				
Asn	Ile	Ala	Lys	Gln	His	Leu	Leu	Pro	Lys	Gln	Ile	Glu	Arg	Asn	Ala		
		515					520					525					
Leu	Lys	Ala	Asn	Glu	Leu	Thr	Val	Glu	Asp	Ser	Ala	Ile	Val	Gly	Ile		
		530				535					540						
Ile	Arg	Tyr	Tyr	Thr	Arg	Glu	Ala	Gly	Gly	Leu	His	His	Gly	Ala	Gly		
545					550					555					560		
Arg	Ile	Arg	Pro														
				565													

<210> 6103

<211> 75

<212> PRT

<213> Enterobacter cloacae

<400> 6103

Ile	Ser	Asn	Gly	Leu	Val	Trp	Pro	Pro	Met	Thr	Asp	Ser	Ser	Ile	Thr		
1				5					10					15			
Thr	Phe	Ser	Thr	Ser	Ser	Ile	Glu	Gly	Arg	Ser	Tyr	Ile	Val	Ser	Ser		
			20					25					30				
Asn	Ala	Ala	Ser	Thr	Ile	Glu	Arg	Arg	Pro	Arg	Ala	Pro	Val	Leu	Arg		
		35				40					45						
Ala	Ile	Ala	Phe	Leu	Ala	Ile	Ala	Ser	Asn	Ala	Ser	Ser	Arg	Asn	Ser		
	50					55					60						
Ser	Ser	Thr	Pro	Ser	Arg	Leu	Asn	Ser	Ala								
65					70				75								

<210> 6104

<211> 64

<212> PRT

<213> Enterobacter cloacae

<400> 6104

Ile	Asn	Ala	Ser	Ser	Leu	Ser	Ser	Phe	Arg	Val	Ala	Thr	Thr	Gly	Arg		
1				5				10						15			
Arg	Pro	Ile	Asn	Ser	Gly	Ile	Lys	Pro	Asn	Leu	Ile	Arg	Ser	Ser	Gly		
			20					25					30				
Ser	Thr	Cys	Ala	Ser	Ser	Trp	Pro	Ser	Phe	Gly	Phe	Ser	Asp	Val	Ala		
		35				40					45						
Phe	Thr	Val	Ala	Pro	Lys	Pro	Met	Pro	Glu	Pro	Val	Ser	Thr	Arg			
	50					55					60						

<210> 6105

<211> 161

<212> PRT

<213> Enterobacter cloacae

<400> 6105

Asp	Asp	Arg	Gly	Gly	Pro	Leu	His	Lys	Arg	Gly	Leu	Arg	Pro	Leu	Gly		
1				5				10						15			
Ala	Leu	Pro	Ala	His	Ala	Thr	Ser	Val	Leu	Leu	Asn	Met	Leu	Leu	Cys		
		20						25					30				
Ser	Arg	Pro	Gly	Lys	Pro	Gly	Phe	Val	Phe	Cys	Ala	Phe	Tyr	Pro	Leu		
		35				40					45						
Phe	Pro	Gly	Glu	Arg	Val	Arg	Val	Arg	Gly	Ser	Gly	Arg	Thr	Glu	Leu		
	50					55					60						
His	Ile	Ala	Pro	Gly	Gly	Ile	Asp	Ser	Leu	Arg	Ser	Pro	Cys	Gly	Gln		
65					70					75				80			
Pro	Val	Arg	Tyr	Ala	Leu	Ser	Leu	Ser	Asn	Trp	Leu	Arg	Gln	Leu	Ser		

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<210> 6106
<211> 373
<212> PRT
<213> Enterobacter cloacae
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1	Lys	Thr	Ala	Val	Val	Pro	Gly	Ser	Asp	Val	Asn	Ser	Leu	Trp	Arg
Ser	Arg	Met	Val	Ala	Ser	Cys	Thr	Gly	Gln	Gly	Lys	His	Ile	Asn	Arg
Ser	Thr	Arg	Arg	Gly	Gly	Ser	Asp	Ser	Gly	Ser	Asp	Phe	Phe	Thr	Thr
Lys	Phe	Ser	Pro	Ser	Pro	Gln	Gln	Pro	Phe	Ser	Thr	Asp	Val	His	Asn
Gly	Ala	Arg	Ser	Arg	Cys	Ile	Ser	Ser	Ser	Gly	Asn	Ala	Ser	Asn	Gly
Leu	Gln	Gly	Ser	Gln	Pro	Ser	Asp	Val	Arg	Ala	His	Asn	Arg	Ala	Asp
Ala	Gly	Ala	Cys	Asp	Glu	Tyr	Gln	Gln	Leu	Lys	Val	Leu	Ser	Met	Gly
Arg	Gln	Lys	Ala	Val	Ile	Lys	Ala	Arg	Arg	Glu	Ala	Lys	Arg	Val	Leu
Arg	Arg	Asp	Ser	Arg	Ser	His	Lys	Gln	Arg	Glu	Glu	Glu	Ser	Val	Thr
Ser	Leu	Val	Gln	Met	Ser	Gly	Val	Glu	Ser	Ile	Gly	Met	Ala	Arg	Asp
Ser	Arg	Asp	Ala	Ser	Pro	Ile	Val	Ala	Arg	Asn	Glu	Ala	Gln	Ala	His
Tyr	Leu	Asn	Ala	Ile	Glu	Ser	Lys	Gln	Leu	Ile	Phe	Ala	Thr	Gly	Glu
Ala	Gly	Cys	Gly	Lys	Thr	Trp	Ile	Ser	Ala	Ala	Lys	Ala	Ala	Glu	Ala
Leu	Ile	His	Lys	Asp	Val	Glu	Arg	Ile	Ile	Val	Thr	Arg	Pro	Val	Leu
Gln	Ala	Asp	Glu	Asp	Leu	Gly	Phe	Leu	Pro	Gly	Asp	Ile	Ser	Glu	Lys
Phe	Ala	Pro	Tyr	Phe	Arg	Pro	Val	Tyr	Asp	Val	Leu	Val	Lys	Arg	Leu
Gly	Ala	Ser	Phe	Met	Gln	Tyr	Cys	Leu	Arg	Pro	Glu	Ile	Gly	Lys	Val
Glu	Ile	Ala	Pro	Phe	Ala	Tyr	Met	Arg	Gly	Arg	Thr	Phe	Glu	Asn	Ala
Val	Val	Ile	Leu	Asp	Glu	Ala	Gln	Asn	Val	Thr	Ala	Ala	Gln	Met	Lys
Met	Phe	Leu	Thr	Arg	Leu	Gly	Glu	Asn	Val	Thr	Val	Ile	Val	Asn	Gly
Asp	Ile	Thr	Gln	Cys	Asp	Leu	Pro	Ser	Gly	Val	Lys	Ser	Gly	Leu	Ser
Asp	Ala	Met	Ser	Arg	Phe	Glu	Glu	Asp	Glu	Met	Ile	Gly	Val	Val	Arg

340 345 350
 Phe Thr Lys Glu Asp Cys Val Arg Ser Ala Leu Cys Gln Arg Thr Leu
 355 360 365
 Gln Ala Tyr Tyr
 370

<210> 6107
 <211> 62
 <212> PRT
 <213> Enterobacter cloacae

<400> 6107
 His Arg Gly Gly Leu Thr Arg Cys Ala Arg Pro Ala Gly Ser Leu Phe
 1 5 10 15
 Ala Thr Leu Ser Val Cys Pro Thr Gly Cys Ala Ser Cys Arg Thr Pro
 20 25 30
 Val Gly Gly Ser His Ser Pro Gln Arg Arg Thr Thr Cys Glu Lys Lys
 35 40 45
 Ala Arg Ile Phe Met Arg Ala Leu Leu Gln Ile Trp Arg
 50 55 60

<210> 6108
 <211> 90
 <212> PRT
 <213> Enterobacter cloacae

<400> 6108
 Arg Leu Val Ala Ala Gly Leu Ala Ala Gly Ala Ile Arg Ala Phe His
 1 5 10 15
 Glu Ala Gly Leu Trp Asn His Phe Gln Asp Val Ala Phe Asp Leu Ser
 20 25 30
 Asn Val Leu Ser Thr His Ser Leu Thr Gly Thr Leu Leu Glu Gly Ile
 35 40 45
 Phe Gly Tyr Gln Glu Thr Pro Ser Val Ser Glu Val Ala Met Tyr Phe
 50 55 60
 Ile Tyr Leu Val Pro Ala Leu Ile Leu Phe Ala Met Pro Pro Arg Thr
 65 70 75 80
 Gly Ser Gln Thr Ser Arg Val Ala Pro
 85 90

<210> 6109
 <211> 385
 <212> PRT
 <213> Enterobacter cloacae

<400> 6109
 Leu Gln His Thr Leu Lys Gly Arg Val Met Ala Ile Gln Phe Arg Arg
 1 5 10 15
 Ser Ala Leu Cys Ala Gly Ile Ala Ala Leu Phe Val Ser Ala Phe Ala
 20 25 30
 Ala Gln Ala Ala Asp Ile Pro Gln Val Lys Val Thr Val Asn Asp Lys
 35 40 45
 Gln Cys Glu Pro Met Thr Ile Thr Val Asn Ser Gly Lys Thr Gln Phe
 50 55 60
 Ile Ile Gln Asn His Ser Gln Lys Ala Leu Glu Trp Glu Ile Leu Lys
 65 70 75 80
 Gly Val Met Val Val Glu Glu Arg Glu Asn Ile Ala Pro Gly Phe Ser
 85 90 95
 Gln Lys Met Thr Ala Asn Leu Gln Pro Gly Glu Tyr Asp Met Thr Cys
 100 105 110
 Gly Leu Leu Thr Asn Pro Lys Gly Lys Leu Ile Val Lys Gly Ala Ala


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      115              120              125
Thr  Ala  Asp  Ala  Ala  Lys  Gly  Thr  Ala  Leu  Leu  Ser  Leu  Gly  Asp  Ala
130              135              140
Ile  Thr  Ala  Tyr  Lys  Ala  Tyr  Val  Thr  Lys  Glu  Thr  Ala  Asp  Leu  Val
145              150              155              160
Ala  Gly  Thr  Lys  Ala  Phe  Thr  Asp  Ala  Val  Lys  Ala  Gly  Asp  Ile  Glu
      165              170              175
Lys  Ala  Lys  Ser  Leu  Tyr  Ala  Pro  Thr  Arg  Gln  His  Tyr  Glu  Arg  Ile
      180              185              190
Glu  Pro  Ile  Ala  Glu  Leu  Phe  Ser  Asp  Leu  Asp  Gly  Ser  Ile  Asp  Ala
      195              200              205
Arg  Glu  Asp  Asp  Tyr  Glu  Gln  Lys  Ala  Ala  Asp  Pro  Lys  Phe  Thr  Gly
210              215              220
Phe  His  Arg  Leu  Glu  Lys  Ala  Leu  Phe  Gly  Asp  Asn  Ser  Thr  Arg  Gly
225              230              235              240
Met  Glu  Lys  Tyr  Ala  Glu  Gln  Leu  Asn  Ser  Asp  Val  Leu  Glu  Leu  Gln
      245              250              255
Lys  Arg  Ile  Ser  Glu  Leu  Ala  Phe  Pro  Pro  Ser  Lys  Val  Val  Gly  Gly
      260              265              270
Ala  Ala  Gly  Leu  Ile  Glu  Glu  Val  Ala  Ala  Ser  Lys  Ile  Ser  Gly  Glu
      275              280              285
Glu  Asp  Arg  Tyr  Ser  His  Thr  Asp  Leu  Trp  Asp  Phe  Gln  Ala  Asn  Val
290              295              300
Asp  Gly  Ala  Gln  Lys  Ile  Val  Asp  Leu  Leu  Arg  Pro  Gln  Leu  Gln  Lys
305              310              315              320
Glu  Asn  Gly  Glu  Leu  Leu  Ala  Lys  Val  Asp  Ala  Asn  Phe  Lys  Lys  Val
      325              330              335
Asp  Ala  Ile  Leu  Ala  Lys  Tyr  Arg  Thr  Lys  Asp  Gly  Phe  Glu  Thr  Tyr
      340              345              350
Asp  Lys  Leu  Thr  Asp  Ala  Asp  Arg  Asn  Ala  Leu  Lys  Gly  Pro  Ile  Thr
      355              360              365
Thr  Leu  Ala  Glu  Asp  Leu  Ser  Leu  Leu  Arg  Gly  Val  Leu  Gly  Leu  Asp
370              375              380

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385

<210> 6110

<211> 429

<212> PRT

<213> Enterobacter cloacae

<400> 6110

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Ala  Met  Asn  Glu  His  Asp  Glu  Tyr  Asp  Val  Ala  Glu  Pro  Ser  Arg  Arg
1      5      10      15
Arg  Leu  Leu  Lys  Gly  Val  Gly  Ala  Leu  Gly  Gly  Ala  Phe  Ala  Leu  Ala
20     25     30
Gly  Gly  Cys  Pro  Val  Ala  His  Ala  Ala  Lys  Pro  Gln  Ser  Ala  Pro  Gly
35     40     45
Thr  Leu  Ser  Pro  Asp  Ala  Arg  Met  Glu  Thr  Gln  Pro  Phe  Tyr  Gly  Glu
50     55     60
His  Gln  Ala  Gly  Ile  Leu  Thr  Pro  Gln  Gln  Ala  Ser  Met  Met  Leu  Val
65     70     75     80
Ala  Phe  Asp  Ser  Leu  Ala  Ser  Asp  Lys  Ala  Asp  Leu  Glu  Arg  Leu  Phe
85     90     95
Arg  Leu  Leu  Thr  Thr  Arg  Ile  Ala  Phe  Leu  Thr  Ala  Gly  Gly  Pro  Ala
100    105    110
Pro  Glu  Thr  Pro  Asn  Pro  Arg  Leu  Pro  Pro  Met  Asp  Ser  Gly  Ile  Leu
115    120    125
Gly  Ala  Phe  Ile  Ala  Pro  Asp  Asn  Leu  Thr  Ile  Thr  Val  Ser  Val  Gly
130    135    140
Glu  Ser  Leu  Phe  Asp  Asp  Arg  Tyr  Gly  Leu  Ala  Lys  Gln  Lys  Pro  Lys

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145		150		155		160									
Ala	Leu	Gln	Lys	Met	Thr	Arg	Phe	Pro	Asn	Asp	Ser	Leu	Asp	Ala	Ala
				165					170					175	
Leu	Cys	His	Gly	Asp	Leu	Leu	Leu	Gln	Ile	Cys	Ala	Asn	Thr	Gln	Asp
			180					185					190		
Thr	Val	Ile	His	Ala	Leu	Arg	Asp	Ile	Ile	Lys	His	Thr	Pro	Asp	Leu
		195					200					205			
Leu	Ser	Val	Arg	Trp	Lys	Arg	Glu	Gly	Phe	Ile	Ser	Asp	His	Ala	Ala
	210				215						220				
Arg	Ser	Lys	Gly	Lys	Glu	Thr	Pro	Val	Asn	Leu	Leu	Gly	Phe	Lys	Asp
225				230					235					240	
Gly	Thr	Ala	Asn	Pro	Asp	Ser	Ser	Asn	Thr	Ala	Leu	Met	Asn	Lys	Val
			245					250					255		
Val	Trp	Val	Thr	Ala	Asp	Gln	Gly	Glu	Pro	Ala	Trp	Ala	Val	Gly	Gly
		260					265					270			
Ser	Tyr	Gln	Ala	Val	Arg	Ile	Ile	Gln	Phe	His	Val	Glu	Phe	Trp	Asp
	275					280					285				
Arg	Thr	Pro	Leu	Lys	Glu	Gln	Gln	Thr	Ile	Phe	Gly	Arg	Asp	Lys	Gln
	290				295						300				
Thr	Gly	Ala	Pro	Leu	Gly	Met	Lys	Leu	Glu	His	Asp	Glu	Pro	Asp	Tyr
305				310					315					320	
Ala	Arg	Asp	Pro	Asn	Gly	Asp	Val	Ile	Ala	Leu	Asp	Ser	His	Ile	Arg
			325				330						335		
Leu	Ala	Asn	Pro	Arg	Thr	Lys	Glu	Thr	Gln	Ser	Ser	Leu	Met	Met	Arg
		340					345					350			
Arg	Gly	Tyr	Ser	Tyr	Ser	Leu	Gly	Val	Thr	Asn	Ser	Gly	Gln	Leu	Asp
	355					360					365				
Met	Gly	Leu	Leu	Phe	Val	Cys	Tyr	Gln	His	Asp	Leu	Glu	Lys	Gly	Phe
	370				375						380				
Leu	Thr	Val	Gln	Lys	Arg	Leu	Asn	Gly	Glu	Ala	Leu	Glu	Glu	Tyr	Ile
385				390					395					400	
Lys	Pro	Ile	Gly	Gly	Gly	Tyr	Phe	Phe	Ala	Leu	Pro	Gly	Ala	Arg	Asp
			405				410						415		
Ala	Asn	Ala	Trp	Leu	Ala	Gln	Gly	Leu	Ile	Glu	Ala				
		420					425								

<210> 6111

<211> 104

<212> PRT

<213> Enterobacter cloacae

<400> 6111

Leu	Ala	Ala	Leu	Ala	Leu	Arg	Ala	Ala	Cys	Ser	Leu	Arg	Ser	Gln	Ser
1			5						10					15	
Val	Gln	Leu	Ala	Ala	Pro	Val	Val	Glu	Pro	Arg	Ser	Gly	Val	Leu	Ile
		20						25					30		
Pro	Arg	Lys	Gly	Val	Gln	His	Ala	Lys	Lys	Lys	Pro	Ala	Phe	Ser	Cys
		35					40					45			
Glu	Leu	Phe	Phe	Lys	Tyr	Gly	Gly	Glu	Gly	Gly	Ile	Arg	Thr	Pro	Asp
	50					55					60				
Thr	Leu	Pro	Tyr	Thr	His	Phe	Pro	Gly	Val	Leu	Leu	Gln	Pro	Leu	Gly
65					70					75				80	
His	Leu	Thr	Ile	Leu	Phe	Cys	Cys	Leu	Thr	Ala	Trp	Gly	Ala	Thr	Gly
			85					90						95	
Arg	Tyr	Tyr	Arg	Glu	Leu	Arg									
			100												

<210> 6112

<211> 603

<212> PRT

<213> Enterobacter cloacae

<400> 6112

```

Arg Arg Gly Ile Ser Ser Ala Ala Phe Phe Cys Ser Asn Cys Pro His
1      5      10      15
Tyr Phe Leu Pro Gly Arg Phe Lys Gly Cys His Tyr Val Arg Leu Ile
20      25      30
Arg Ser Tyr Ala Val Ile Arg Cys Leu Arg Phe Glu Glu Ser Thr Met
35      40      45
Ser Glu Ala Glu Ala Arg Pro Ser Asn Phe Ile Arg Gln Ile Ile Asp
50      55      60
Glu Asp Leu Ala Ser Gly Lys His Trp Thr Val His Thr Arg Phe Pro
65      70      75      80
Pro Glu Pro Asn Gly Tyr Leu His Ile Gly His Ala Lys Ser Ile Cys
85      90      95
Leu Asn Phe Gly Ile Ala Gln Asp Tyr Gln Gly Gln Cys Asn Leu Arg
100     105     110
Phe Asp Asp Thr Asn Pro Val Lys Glu Asp Ile Glu Tyr Val Glu Ser
115     120     125
Ile Lys Asn Asp Val Gln Trp Leu Gly Phe Asn Trp Ser Gly Asp Ile
130     135     140
Cys Tyr Ser Ser Asp Tyr Phe Asp Gln Leu Tyr Ala Tyr Ala Val Glu
145     150     155     160
Leu Ile Asn Lys Gly Leu Ala Tyr Val Asp Glu Leu Ser Ala Asp Glu
165     170     175
Ile Arg Glu Tyr Arg Gly Thr Leu Thr Gln Pro Gly Lys Asn Ser Pro
180     185     190
Phe Arg Asp Arg Ser Val Glu Glu Asn Leu Ala Leu Phe Glu Lys Met
195     200     205
Arg Ala Gly Gly Phe Glu Glu Gly Lys Ala Cys Leu Arg Ala Lys Ile
210     215     220
Asp Met Ala Ser Pro Phe Ile Val Met Arg Asp Pro Val Leu Tyr Arg
225     230     235     240
Ile Lys Phe Ala Glu His His Gln Thr Gly Asn Lys Trp Cys Ile Tyr
245     250     255
Pro Met Tyr Asp Phe Thr His Cys Ile Ser Asp Ala Leu Glu Gly Ile
260     265     270
Thr His Ser Leu Cys Thr Leu Glu Phe Gln Asp Asn Arg Arg Leu Tyr
275     280     285
Asp Trp Val Leu Asp Asn Ile Thr Ile Pro Val His Pro Arg Gln Tyr
290     295     300
Glu Phe Ser Arg Leu Asn Leu Glu Tyr Thr Val Met Ser Lys Arg Lys
305     310     315     320
Leu Asn Leu Leu Val Thr Asp Lys His Val Glu Gly Trp Asp Asp Pro
325     330     335
Arg Met Pro Thr Ile Ser Gly Leu Arg Arg Arg Gly Tyr Thr Ser Ala
340     345     350
Ser Ile Arg Glu Phe Cys Lys Arg Ile Gly Val Thr Lys Gln Asp Asn
355     360     365
Thr Ile Glu Met Ala Ser Leu Glu Ser Cys Ile Arg Glu Asp Leu Asn
370     375     380
Glu Asn Ala Pro Arg Ala Met Ala Val Ile Asp Pro Val Lys Leu Val
385     390     395     400
Ile Glu Asn Tyr Pro Gln Gly Gly Ser Glu Gln Val Ser Met Pro Asn
405     410     415
His Pro Asn Lys Pro Glu Met Gly Thr Arg Asp Val Pro Phe Ser Gly
420     425     430
Glu Ile Trp Ile Asp Arg Ala Asp Phe Arg Glu Glu Ala Asn Lys Gln
435     440     445
Tyr Lys Arg Leu Val Leu Gly Lys Glu Val Arg Leu Arg Asn Ala Tyr
450     455     460
Val Ile Lys Ala Glu Arg Val Glu Lys Asp Ala Glu Gly Asn Ile Thr

```

465 470 475 480
 Thr Ile Phe Cys Thr Tyr Asp Ala Glu Thr Leu Ser Lys Asp Pro Ala
 485 490 495
 Asp Gly Arg Lys Val Lys Gly Val Ile His Trp Val Ser Ala Gln His
 500 505 510
 Ala Leu Pro Val Glu Ile Arg Leu Tyr Asp Arg Leu Phe Ser Val Pro
 515 520 525
 Asn Pro Gly Ala Ala Glu Asp Phe Leu Ala Val Ile Asn Pro Glu Ser
 530 535 540
 Leu Ile Ile Lys Gln Gly Tyr Ala Glu Pro Ser Leu Lys Ala Ala Glu
 545 550 555 560
 Ala Gly Lys Ala Phe Gln Phe Glu Arg Glu Gly Tyr Phe Cys Leu Asp
 565 570 575
 Ser Arg Tyr Ser Thr Ala Glu Lys Pro Val Phe Asn Arg Thr Val Gly
 580 585 590
 Leu Arg Asp Thr Trp Thr Lys Ile Gly Glu
 595 600

<210> 6113
 <211> 205
 <212> PRT
 <213> Enterobacter cloacae

<220>
 <221> UNSURE
 <222> (176)

<220>
 <221> UNSURE
 <222> (185)

<400> 6113
 Ser Met Arg Thr Phe Ser Gly Lys Arg Ser Ala Leu Ala Leu Ala Ile
 1 5 10 15
 Ala Gly Val Thr Ala Met Ser Gly Leu Val Val Ala Pro Gln Ala Lys
 20 25 30
 Ala Ala Gly Phe Ile Glu Asp Ser Thr Leu Thr Gly Gly Ile Tyr Tyr
 35 40 45
 Trp Gln Arg Glu Arg Asp Arg Lys Asp Val Thr Glu Asp Lys Tyr Lys
 50 55 60
 Thr Asn Leu Ser His Ser Thr Trp Asn Ala Asn Leu Asp Phe Gln Ser
 65 70 75 80
 Gly Tyr Ala Ala Asp Met Phe Gly Ile Asp Ile Ala Ala Phe Thr Ala
 85 90 95
 Ile Glu Met Ala Glu Asn Gly Asp Ser Gly His Pro Asn Glu Ile Ala
 100 105 110
 Phe Ser Ser Ser Asn Lys Ala Tyr Asp Glu Asp Trp Ser Gly Asp Lys
 115 120 125
 Ser Gly Ile Ser Leu Tyr Lys Ala Ala Ala Lys Phe Lys Tyr Gly Pro
 130 135 140
 Val Trp Ala Arg Gly Ser Tyr Ile Gln Pro Thr Gly Gln Thr Leu Leu
 145 150 155 160
 Ala Pro His Trp Ser Phe Met Pro Gly Thr Tyr Gln Gly Ala Glu Xaa
 165 170 175
 Gly Ala Asn Phe Asp Tyr Gly Glu Xaa Gly Gly Val Ser Phe Ser Tyr
 180 185 190
 Met Trp Asn Asn Glu Val Thr Ser Ala Val Ala His
 195 200 205

<210> 6114
 <211> 667

<212> PRT

<213> *Enterobacter cloacae*

<400> 6114

Lys His Ser Leu Cys Ala Ser Leu Asn Lys Gly Ser Arg Arg Gly Asn
 1 5 10 15
 Arg Met Asn Ile Leu Gly Phe Phe Gln Arg Leu Gly Arg Ala Leu Gln
 20 25 30
 Leu Pro Ile Ala Val Leu Pro Val Ala Ala Leu Leu Leu Arg Phe Gly
 35 40 45
 Gln Pro Asp Leu Leu Asn Val Pro Phe Ile Ala Gln Ala Gly Gly Ala
 50 55 60
 Ile Phe Asp Asn Leu Ala Leu Ile Phe Ala Ile Gly Val Ala Ser Ser
 65 70 75 80
 Trp Ser Lys Asp Ser Ala Gly Ala Ala Ala Leu Ala Gly Ala Val Gly
 85 90 95
 Tyr Phe Ile Leu Thr Lys Ala Met Val Thr Ile Asn Pro Glu Ile Asn
 100 105 110
 Met Gly Val Leu Ala Gly Ile Ile Thr Gly Leu Val Gly Gly Ala Val
 115 120 125
 Tyr Asn Arg Trp Ala Gly Ile Lys Leu Pro Asp Phe Leu Ser Phe Phe
 130 135 140
 Gly Gly Lys Arg Phe Val Pro Ile Ala Thr Gly Phe Phe Cys Leu Ile
 145 150 155 160
 Leu Ala Ala Ile Phe Gly Tyr Val Trp Pro Pro Val Gln His Ala Ile
 165 170 175
 His Ala Asp Gly Glu Trp Ile Val Ser Ala Gly Ala Met Gly Ala Gly
 180 185 190
 Ile Phe Gly Phe Ile Asn Arg Leu Ile Pro Thr Gly Leu His Gln
 195 200 205
 Val Leu Asn Thr Ile Ala Trp Phe Gln Ile Gly Glu Phe Thr Asn Ala
 210 215 220
 Ala Gly Ala Val Phe His Gly Asp Ile Asn Arg Phe Tyr Ala Gly Asp
 225 230 235 240
 Gly Thr Ala Gly Met Phe Met Ser Gly Phe Phe Pro Ile Met Met Phe
 245 250 255
 Gly Leu Pro Gly Ala Ala Leu Ala Met Tyr Leu Ala Ala Pro Lys Ala
 260 265 270
 Arg Arg Pro Met Val Gly Gly Met Leu Leu Ser Val Ala Ile Thr Ala
 275 280 285
 Phe Leu Thr Gly Val Thr Glu Pro Leu Glu Phe Leu Phe Met Phe Leu
 290 295 300
 Ala Pro Leu Leu Tyr Leu Met His Ala Ile Leu Thr Gly Ile Ser Leu
 305 310 315 320
 Phe Val Ala Thr Leu Leu Gly Ile His Ala Gly Phe Ser Phe Ser Ala
 325 330 335
 Gly Ala Ile Asp Tyr Val Trp Met Tyr Asn Leu Pro Ala Ala Ser Ile
 340 345 350
 Ser Val Trp Ile Leu Met Val Met Gly Leu Ile Phe Cys Val Ile Tyr
 355 360 365
 Phe Val Leu Phe Ser Ala Val Val Arg Met Phe Asn Leu Lys Thr Pro
 370 375 380
 Gly Arg Glu Asp Ala Lys Asp Asp Val Val Thr Ser Glu Ala Asn Ser
 385 390 395 400
 Asn Thr Glu Glu Gly Leu Thr Gln Leu Ala Thr Thr Tyr Ile Ala Ala
 405 410 415
 Val Gly Gly Thr Asp Asn Leu Lys Ala Ile Asp Ala Cys Ile Thr Arg
 420 425 430
 Leu Arg Leu Thr Val Gly Asp Ser Ala Arg Val Ser Asp Ala Met Cys
 435 440 445
 Lys Arg Leu Gly Ala Ser Gly Val Val Lys Leu Asn Lys Gln Thr Ile

450		455		460
Gln Val Ile Val Gly Ala Lys Ala Glu Ser Ile Gly Asp Glu Met Lys				
465		470		475
Lys Val Val Ala Arg Gly Pro Val Ala Ala Ala Ser Thr Asp Asn Ala				
	485		490	495
Pro Val Ala Asp Ala Pro Val Ala Lys Pro Gln Ala Val Pro Asn Ala				
	500		505	510
Val Thr Ile Ala Ala Leu Val Ser Pro Val Thr Gly Asp Val Val Ala				
	515		520	525
Leu Glu Gln Val Pro Asp Glu Ala Phe Ala Ser Lys Ala Val Gly Asp				
	530		535	540
Gly Val Ala Val Lys Pro Thr Asp Lys Thr Val Val Ser Pro Ala Ala				
545		550		555
Gly Thr Ile Val Lys Ile Phe Asn Thr Asn His Ala Phe Cys Leu Glu				
	565		570	575
Thr Glu Lys Gly Ala Glu Ile Val Val His Met Gly Ile Asp Thr Val				
	580		585	590
Ala Leu Asn Gly Gln Gly Phe Thr Arg Leu Val Glu Glu Gly Ala Glu				
	595		600	605
Val Ala Ala Gly Gln Pro Ile Leu Glu Met Asp Leu Asp Phe Leu Asn				
	610		615	620
Ala Asn Ala Arg Ser Met Ile Ser Pro Val Val Cys Ser Asn Ile Asp				
625		630		635
Asp Phe Ser Gly Leu Val Ile Gln Ala Gln Gly Gln Val Val Ala Gly				
	645		650	655
Gln Thr Pro Leu Tyr Glu Ile Lys Gly Lys				
	660		665	

<210> 6115

<211> 287

<212> PRT

<213> Enterobacter cloacae

<400> 6115

Asn Val Pro Glu Glu Asn Asn Gly Gly Asn Cys Cys Lys Lys Lys Arg				
1	5		10	15
Arg Arg Ile Ser Pro Ala Ala Lys Gly Ile Thr Leu Leu Arg Ser Asp				
	20		25	30
Tyr Leu Pro Leu Ile Ser Tyr Ser Gly Val Trp Pro Ala Thr Thr Cys				
	35		40	45
Pro Cys Ala Trp Ile Thr Arg Pro Leu Lys Ser Ser Met Leu Leu His				
	50		55	60
Thr Thr Gly Leu Ile Met Glu Arg Ala Leu Ala Phe Arg Lys Ser Arg				
65		70		75
Ser Ile Ser Arg Ile Gly Trp Pro Ala Ala Thr Ser Ala Pro Ser Ser				
	85		90	95
Thr Arg Arg Val Lys Pro Trp Pro Phe Ser Ala Thr Val Ser Ile Pro				
	100		105	110
Ile Trp Thr Thr Ile Ser Ala Pro Phe Ser Val Ser Arg Gln Asn Ala				
	115		120	125
Trp Leu Val Leu Lys Ile Phe Thr Ile Val Pro Ala Ala Gly Glu Thr				
	130		135	140
Thr Val Leu Ser Val Gly Phe Thr Ala Thr Pro Ser Pro Thr Ala Leu				
145		150		155
Leu Ala Asn Ala Ser Ser Gly Thr Cys Ser Ser Ala Thr Thr Ser Pro				
	165		170	175
Val Thr Gly Glu Thr Ser Ala Ala Met Val Thr Ala Phe Gly Thr Ala				
	180		185	190
Cys Gly Phe Ala Thr Gly Ala Ser Ala Thr Gly Ala Leu Ser Val Glu				
	195		200	205
Ala Ala Ala Thr Gly Pro Arg Ala Thr Thr Phe Phe Ile Ser Ser Pro				

210		215		220
Ile Asp Ser Ala Phe Ala Pro Thr Ile Thr Trp Met Val Cys Leu Phe				
225		230		235
Ser Phe Thr Thr Pro Asp Ala Pro Arg Arg Leu His Ile Ala Ser Leu				
	245		250	255
Thr Arg Ala Glu Ser Pro Thr Val Arg Arg Arg Arg Val Ile Gln Ala				
	260		265	270
Ser Ile Ala Phe Arg Leu Ser Val Pro Pro Thr Ala Ala Met				
275		280		285

<210> 6116

<211> 367

<212> PRT

<213> Enterobacter cloacae

<400> 6116

Ala Gly Asp Gly Gly Asp His Pro Gly Ser Ala Gly Cys Ala Asp Gly				
1	5	10	15	
Gly Ser Arg Pro Phe Thr Ala Leu Leu Ser Lys Ile Asn Pro His Thr				
	20	25	30	
Ser Gln Gln Gly Lys Asp Ile Met Lys Ser Arg Ala Ala Val Ala Phe				
	35	40	45	
Gly Pro Gly Gln Pro Leu Lys Ile Val Glu Ile Asp Val Ala Pro Pro				
	50	55	60	
Lys Lys Gly Glu Val Leu Ile Lys Ile Thr His Thr Gly Val Cys His				
65	70	75	80	
Thr Asp Ala Phe Thr Leu Ser Gly Asp Asp Pro Glu Gly Val Phe Pro				
	85	90	95	
Ala Val Leu Gly His Glu Gly Gly Gly Val Val Val Glu Val Gly Glu				
	100	105	110	
Gly Val Thr Ser Leu Lys Pro Gly Asp His Val Ile Pro Leu Tyr Thr				
	115	120	125	
Ala Glu Cys Gly Glu Cys Lys Phe Cys Lys Ser Gly Lys Thr Asn Leu				
	130	135	140	
Cys Gln Ala Val Arg Ala Thr Gln Gly Lys Gly Leu Met Pro Asp Gly				
145	150	155	160	
Thr Thr Arg Phe Ser Tyr Asn Gly Glu Pro Ile Tyr His Tyr Met Gly				
	165	170	175	
Thr Ser Thr Phe Ser Glu Tyr Thr Val Cys Ala Glu Ile Ser Leu Ala				
	180	185	190	
Lys Val Asn Pro Gln Ala Pro Leu Asp Lys Val Cys Leu Leu Gly Cys				
	195	200	205	
Gly Val Thr Thr Gly Ile Gly Ala Val His Asn Thr Ala Lys Val Lys				
	210	215	220	
Glu Gly Asp Thr Val Ala Val Phe Gly Leu Gly Gly Ile Gly Leu Ala				
225	230	235	240	
Val Ile Gln Gly Ala Val Gln Ala Lys Ala Gly Arg Ile Ile Ala Val				
	245	250	255	
Asp Thr Asn Pro Glu Lys Phe Lys Leu Ala Gly Glu Met Gly Ala Thr				
	260	265	270	
Asp Phe Ile Asn Pro Lys Asp Tyr Asp Lys Pro Val Gln Glu Val Ile				
	275	280	285	
Val Glu Leu Thr Asp Gly Gly Val Asp Phe Ser Phe Glu Cys Ile Gly				
	290	295	300	
Asn Val Tyr Val Met Arg Ser Ala Leu Glu Cys Cys His Lys Gly Trp				
305	310	315	320	
Gly Glu Ser Ile Ile Ile Gly Val Ala Gly Arg Gly Ser Gly Asp Gln				
	325	330	335	
Asn Pro Ser Leu Pro Ser Gly Asp Arg Gly Arg Met Ala Arg Val Gly				
	340	345	350	
Ile Trp Arg Arg Glu Arg Pro Tyr Pro Ala Ala Gly His Gly				

355

360

365

<210> 6117

<211> 104

<212> PRT

<213> Enterobacter cloacae

<400> 6117

```

Lys Ile Gln Tyr Pro Pro Ile Val Ser Gly Gly Arg Met Pro His Ser
1      5      10      15
Pro Glu Asp Lys Lys Arg Ile Leu Thr Arg Val Arg Arg Ile Arg Gly
20     25     30
Gln Val Asp Ala Leu Glu Arg Ala Leu Glu Ser Gly Asp Pro Cys Leu
35     40     45
Ala Ile Leu Gln Gln Ile Ala Ala Val Arg Gly Ala Ala Asn Gly Leu
50     55     60
Met Gly Glu Met Val Glu Ile His Leu Lys Asp Glu Leu Val Thr Gly
65     70     75     80
Glu Thr Thr Pro Asp Gln Arg Ala Val Arg Met Ala Glu Val Gly His
85     90     95
Leu Leu Arg Ser Tyr Leu Lys
100

```

<210> 6118

<211> 104

<212> PRT

<213> Enterobacter cloacae

<400> 6118

```

Cys Ala Gln Arg Leu Ser Ala Ala Thr Lys Ala Gly Ala Arg Ala Ser
1      5      10      15
Leu Ser Val Trp Pro Ala Ala Gly Gln Glu Ile Lys Thr Arg Pro Tyr
20     25     30
His Leu Val Thr Gly Gly Val Trp Arg Gly Ser Ala Phe Gly Gly Val
35     40     45
Lys Gly Arg Thr Gln Leu Pro Gly Met Val Glu Asp Ala Met Val Gly
50     55     60
Lys Ile Gln Leu Asp Pro Phe Ile Thr His Arg Leu Pro Leu Glu Gln
65     70     75     80
Ile Asn Glu Ala Phe Asp Leu Met His Glu Gly Lys Ser Ile Arg Thr
85     90     95
Val Ile His Phe Gly Asp Asn
100

```

<210> 6119

<211> 517

<212> PRT

<213> Enterobacter cloacae

<400> 6119

```

Ser Phe Leu Lys Cys Asp Leu Ser Gly Ala Phe Asn Arg Asn Leu Ile
1      5      10      15
Leu Arg Arg Ala Asp Asp Ser Phe Thr Gly Val Phe Leu Arg Ile Leu
20     25     30
Pro Ile Arg Glu Ser Thr Val Met Asp Asn Thr Thr Ser Met Gln Ala
35     40     45
Gln His Lys Leu Ser Phe Leu His His Ile Arg Leu Val Pro Leu Phe
50     55     60
Ser Ser Ile Leu Gly Gly Ile Ile Leu Leu Phe Ala Leu Ser Ser Gly
65     70     75     80
Leu Ala Gly Tyr Phe Leu Leu Gln Ala Asp Asn Asp Gln Gln Asp Val

```



```
<210> 6120
<211> 167
<212> PRT
<213> Enterobacter cloacae
```

<400> 6120

Lys Asp Phe Leu Leu Pro Pro Asn Cys Pro Gln Ser Val Phe Cys Pro
 1 5 10 15
 Gln Ile Cys Pro Arg Asn Leu Leu Phe Cys Val Ala Pro Ser Ser Phe
 20 25 30
 Glu Ser His Leu Phe Thr Gln Phe Arg Leu Ile Ser Ile Ile Ala Thr
 35 40 45
 Asn Pro Phe Val Arg Leu Asn Gln Arg Ala Leu Leu Phe Pro Thr Asn
 50 55 60
 Leu Tyr Phe Gln Ser Asp Thr Arg Leu Glu Val Ser Met Cys Gly Arg
 65 70 75 80
 Phe Ala Gln Ala Gln Thr Arg Glu Glu Tyr Leu Ala Tyr Phe Ala Asp
 85 90 95
 Glu Ala Val Arg Asp Ile Ala Tyr Asp Pro Glu Pro Ile Gly Arg Tyr
 100 105 110
 Asn Val Ala Pro Gly Ser Lys Val Leu Leu Leu Ser Glu His Asp Glu
 115 120 125
 Gln Leu His Leu Asp Pro Val Phe Trp Gly Tyr Pro Pro Gly Trp Trp
 130 135 140
 Asp Lys Ala Pro Leu Ile Asn Ala Arg Val Glu Thr Ala Ala Thr Ser
 145 150 155 160
 Arg Met Phe Lys Pro Leu
 165

<210> 6121

<211> 111

<212> PRT

<213> Enterobacter cloacae

<400> 6121

Gln His Gly Arg Ala Ile Cys Phe Ala Asp Gly Trp Phe Glu Trp Lys
 1 5 10 15
 Arg Glu Glu Gly Lys Lys Gln Pro Tyr Phe Ile His Arg Ala Asp Gly
 20 25 30
 Gln Pro Ile Phe Met Ala Ala Ile Gly Ser Thr Pro Phe Glu Arg Gly
 35 40 45
 Asp Glu Ala Glu Gly Phe Leu Ile Val Thr Ser Ala Ala Asp Lys Gly
 50 55 60
 Leu Val Asp Ile His Asp Arg Arg Pro Leu Val Leu Ser Pro Glu Ala
 65 70 75 80
 Ala Arg Glu Trp Met Arg Gln Glu Val Gly Gly Lys Glu Ala Glu Gln
 85 90 95
 Ile Ala Ala Asp Gly Val Ser Thr Arg Gln Gly Glu Val Gln Arg
 100 105 110

<210> 6122

<211> 143

<212> PRT

<213> Enterobacter cloacae

<400> 6122

Asn Ser Ala Ser Gln Lys Glu Ile Ala Met Thr Leu Pro Ser Gly His
 1 5 10 15
 Pro Lys Ser Arg Leu Ile Lys Lys Phe Met Ala Leu Gly Pro Tyr Ile
 20 25 30
 Arg Glu Glu Gln Cys Glu Glu Asn Arg Phe Phe Phe Asp Cys Leu Ala
 35 40 45
 Val Cys Val Asn Val Lys Pro Ala Pro Glu Lys Arg Glu Phe Trp Gly
 50 55 60
 Trp Trp Met Glu Met Glu Ala Gln Glu Asn Arg Phe Thr Tyr Ser Tyr
 65 70 75 80

Gln	Phe	Gly	Leu	Phe	Asn	Lys	Asp	Gly	His	Trp	Gln	Ala	Thr	Ser	Ile	
			85						90					95		
Lys	Asp	Gln	Glu	Val	Ile	Asp	Arg	Leu	Glu	His	Thr	Leu	Lys	Glu	Phe	
		100						105					110			
His	Gly	Lys	Ala	Arg	Asp	Leu	Leu	Ala	Thr	Leu	Asp	Leu	Lys	Leu	Glu	
		115					120					125				
Pro	Ala	Asp	Asp	Phe	Ser	Ser	Glu	Ala	Val	Lys	Leu	Arg	Ala			
	130					135					140					

<210> 6123

<211> 169

<212> PRT

<213> Enterobacter cloacae

<400> 6123

Leu	Arg	Pro	Arg	Pro	Ala	Ile	Lys	Ala	Leu	Glu	Asn	Ile	Pro	Trp	Val	
1				5					10					15		
Asp	His	Thr	Arg	Val	Gly	Ala	Phe	Gly	Phe	Arg	Phe	Gly	Ala	Asn	Val	
		20						25					30			
Ala	Val	Arg	Leu	Ala	Tyr	Leu	Glu	Ser	Ser	Arg	Leu	Lys	Ala	Val	Ala	
		35					40					45				
Cys	Leu	Gly	Pro	Val	Val	His	Ala	Leu	Leu	Ser	Asp	Pro	Ala	Arg	Gln	
	50					55					60					
Gly	Ser	Val	Pro	Glu	Met	Tyr	Leu	Asp	Val	Leu	Ala	Ser	Arg	Leu	Gly	
65				70					75					80		
Met	His	Asp	Ala	Ser	Asp	Glu	Ala	Leu	Arg	Ile	Glu	Leu	Asn	Arg	Tyr	
			85						90					95		
Ser	Leu	Lys	Thr	Gln	Gly	Leu	Leu	Gly	Arg	Arg	Cys	Pro	Thr	Pro	Met	
		100						105					110			
Met	Ser	Gly	Phe	Trp	Lys	Asn	Asp	Pro	Phe	Ser	Pro	Glu	Glu	Glu	Ser	
		115					120					125				
Arg	Leu	Ile	Thr	Ser	Ser	Ser	Ser	Asp	Gly	Lys	Leu	Leu	Glu	Val	Pro	
	130					135					140					
Phe	Ser	Pro	Val	Tyr	Gln	Asn	Phe	Asp	Lys	Ala	Leu	Lys	Glu	Ile	Thr	
145					150				155						160	
Arg	Trp	Ile	Thr	Gln	Arg	Leu	Cys									
				165												

<210> 6124

<211> 381

<212> PRT

<213> Enterobacter cloacae

<400> 6124

Leu	Thr	Ser	Phe	Ser	Leu	Ile	Val	Glu	Arg	Gln	Arg	Ile	Met	Ser	Asp	
1				5					10					15		
Ser	Gln	Thr	Leu	Val	Val	Lys	Leu	Gly	Thr	Ser	Val	Leu	Thr	Gly	Gly	
		20						25					30			
Ser	Arg	Arg	Leu	Asn	Arg	Ala	His	Ile	Val	Glu	Leu	Val	Arg	Gln	Cys	
		35					40					45				
Ala	Gln	Leu	His	Ala	Ala	Gly	His	Arg	Ile	Val	Ile	Val	Thr	Ser	Gly	
	50					55					60					
Ala	Ile	Ala	Ala	Gly	Arg	Glu	His	Leu	Gly	Tyr	Pro	Glu	Leu	Pro	Ala	
65				70					75					80		
Thr	Ile	Ala	Ser	Lys	Gln	Leu	Leu	Ala	Ala	Val	Gly	Gln	Ser	Arg	Leu	
			85						90					95		
Ile	Gln	Leu	Trp	Glu	Gln	Leu	Phe	Ser	Ile	Tyr	Gly	Ile	His	Val	Gly	
		100						105					110			
Gln	Met	Leu	Leu	Thr	Arg	Ala	Asp	Met	Glu	Asp	Arg	Glu	Arg	Phe	Leu	
		115					120					125				
Asn	Ala	Arg	Asp	Thr	Leu	Arg	Ala	Leu	Leu	Asp	Asn	His	Ile	Val	Pro	

130	135	140
Val Ile Asn Glu Asn Asp	Ala Val Ala Thr Ala	Glu Ile Lys Val Gly
145	150	155
Asp Asn Asp Asn Leu Ser	Ala Leu Ala Ala Ile	Leu Ala Gly Ala Asp
165	170	175
Lys Leu Leu Leu Leu Thr	Asp Gln Gln Gly Leu	Phe Thr Ala Asp Pro
180	185	190
Arg Ser Asn Pro Gln Ala	Glu Leu Ile Lys Asp	Val His Gly Ile Asp
195	200	205
Asp Ala Leu Arg Ala Ile	Ala Gly Asp Ser Val	Ser Gly Leu Gly Thr
210	215	220
Gly Gly Met Gly Thr Lys	Leu Gln Ala Ala Asp	Val Ala Cys Arg Ala
225	230	235
Gly Ile Asp Thr Ile Ile	Ala Ala Gly Ser Arg	Pro Gly Val Ile Gly
245	250	255
Asp Val Met Glu Gly Ile	Ser Val Gly Thr Arg	Phe His Ala Gln Ala
260	265	270
Ser Pro Leu Glu Asn Arg	Lys Arg Trp Ile Phe	Gly Ala Pro Pro Ala
275	280	285
Gly Glu Leu Thr Val Asp	Glu Gly Ala Thr Ala	Ala Ile Leu Glu Arg
290	295	300
Gly Ser Ser Leu Leu Pro	Lys Gly Ile Lys Ser	Val Thr Gly Asn Phe
305	310	315
Ser Arg Gly Glu Val Ile	Arg Ile Arg Asn Leu	Glu Gly Arg Asp Ile
325	330	335
Ala His Gly Val Ser Arg	Tyr Asn Ser Asp Ala	Leu Arg Arg Ile Ala
340	345	350
Gly His His Ser Gln Gln	Ile Asp Ala Ile Leu	Gly Tyr Glu Tyr Gly
355	360	365
Pro Val Ala Val His Arg	Asp Asp Met Ile Ile	Arg
370	375	380

<210> 6125

<211> 360

<212> PRT

<213> Enterobacter cloacae

<400> 6125

Arg Val Phe Ile Lys Ser	Gly Leu Lys Met Lys Lys	Ser Thr Leu Ala
1	5	10
Leu Val Val Met Gly Val	Val Ala Ser Ala Ser	Val Gln Ala Ala Glu
20	25	30
Val Tyr Asn Lys Asn Gly	Asn Lys Leu Asp Val	Tyr Gly Lys Val Lys
35	40	45
Ala Met His Tyr Ile Arg	Asp Asp Ala Lys Asp	Gly Asp Gln Thr
50	55	60
Tyr Val Arg Phe Gly Phe	Lys Gly Glu Thr Gln	Ile Asn Asp Gln Leu
65	70	75
Thr Gly Tyr Gly Arg Trp	Glu Ala Glu Phe Ala	Gly Asn Lys Ala Glu
85	90	95
Ser Asp Ser Ser Gln Lys	Thr Arg Leu Ala Phe	Ala Gly Leu Lys Leu
100	105	110
Lys Asp Phe Gly Ser Leu	Asp Tyr Gly Arg Asn	Leu Gly Ala Leu Tyr
115	120	125
Asp Val Ala Ala Tyr Thr	Asp Met Phe Pro Glu	Phe Gly Gly Asp Gly
130	135	140
Leu Ala Gln Thr Asp Asn	Phe Met Thr Lys Arg	Ala Ser Gly Leu Ala
145	150	155
Thr Tyr Arg Asn Thr Asp	Phe Phe Gly Leu Val	Asp Gly Leu Asn Met
165	170	175
Thr Leu Gln Tyr Gln Gly	Lys Asn Glu Asn Arg	Asp Val Lys Lys Gln

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<210> 6126
<211> 244
<212> PRT
<213> Enterobacter cloacae
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[illegible]

<210> 6127
 <211> 151
 <212> PRT
 <213> Enterobacter cloacae

<400> 6127
 Ser Gly Asn Ser Ser His Gly Leu Ala Ala Arg Ile Met Ile Val Leu
 1 5 10 15
 Ser Arg Asn Val Ser Ile Pro Asp Asn Glu Leu Glu Ile Thr Ala Ile
 20 25 30
 Arg Ala Gln Gly Ala Gly Gly Gln His Val Asn Lys Ala Ser Thr Ala
 35 40 45
 Ile His Leu Arg Phe Asp Ile Arg Ala Ser Ser Leu Pro Glu Tyr Tyr
 50 55 60
 Lys Glu Ser Leu Leu Ala Ala Ser His His Leu Ile Thr Ser Glu Gly
 65 70 75 80
 Val Ile Val Ile Lys Ala Gln Glu Tyr Arg Ser Gln Glu Leu Asn Arg
 85 90 95
 Glu Ala Ala Thr Ala Arg Leu Val Ala Val Ile Lys Glu Leu Thr Ala
 100 105 110
 Val Gln Lys Ser Arg Arg Ala Thr Arg Pro Thr Arg Ala Ser Lys Glu
 115 120 125
 Arg Arg Leu Ser Ser Lys Ala Gln Lys Ser Thr Val Lys Ser Leu Arg
 130 135 140
 Gly Lys Val Arg His Pro
 145 150

<210> 6128
 <211> 188
 <212> PRT
 <213> Enterobacter cloacae

<400> 6128
 Phe Glu Arg Ser Ser Leu Met Ala Leu Lys Ala Thr Ile Tyr Lys Ala
 1 5 10 15
 Val Val Asn Val Ala Asp Leu Asp Arg Asn Gln Phe Leu Asp Ala Ser
 20 25 30
 Leu Thr Leu Ala Arg His Pro Ser Glu Thr Gln Glu Arg Met Met Leu
 35 40 45
 Arg Leu Leu Ala Trp Ile Lys Tyr Ala Asp Glu Arg Leu Gln Phe Thr
 50 55 60
 Arg Gly Leu Ser Ala Glu Asp Glu Pro Glu Ala Trp Leu Arg Asn Asp
 65 70 75 80
 His Leu Gly Ile Asp Leu Trp Ile Glu Leu Gly Leu Pro Asp Glu Arg
 85 90 95
 Arg Ile Lys Lys Ala Cys Thr Gln Ser Ala Glu Val Ala Leu Phe Ala
 100 105 110
 Tyr Asn Gln Arg Ala Ala Asp Ile Trp Trp Gln Gln Asn Lys Asn Lys
 115 120 125
 Cys Ala Gln Phe Lys Asn Leu Thr Val Trp Tyr Leu Asp Asp Glu Gln
 130 135 140
 Leu Ala Gln Leu Ser Ala Phe Ala Ser Arg Thr Met Ala Leu Gln Ala
 145 150 155 160
 Thr Ile Gln Asp Gly Ala Ile Trp Leu Ser Asp Ser Gln Asn Asn Leu
 165 170 175
 Glu Ile His Leu Thr Ala Trp Gln Pro Ala Ser
 180 185

<210> 6129

<211> 61

<212> PRT

<213> Enterobacter cloacae

<400> 6129

Arg	Pro	Thr	Asn	Gln	Asp	Ser	Pro	Pro	Asn	Ile	Pro	Thr	Ala	Arg	Lys
1				5					10					15	
Arg	Met	Gln	Ile	Asn	Ala	Ser	Lys	Met	Lys	Ala	Asn	Ala	Val	Leu	Leu
			20				25						30		
His	Thr	Cys	Glu	Val	Thr	Ser	Gly	Thr	Pro	Gly	Cys	Tyr	Arg	Gln	Ala
		35					40					45			
Val	Cys	Ile	Gly	Ser	Ala	Leu	Asn	Ile	Thr	Ala	Lys				
	50					55					60				

<210> 6130

<211> 98

<212> PRT

<213> Enterobacter cloacae

<400> 6130

Ala	Leu	Ser	Ala	Pro	Leu	Ile	Lys	Lys	Ser	Ser	Pro	Cys	Arg	Val	Ser
1				5					10					15	
Arg	Val	Trp	Ser	Phe	Thr	Ala	Ala	Ala	Ser	Phe	Ile	Leu	Ser	Arg	Arg
			20					25					30		
Ile	Thr	Arg	Pro	Met	Gln	Cys	Ala	Gly	Leu	Arg	Arg	Ser	Ala	Ile	Tyr
		35					40					45			
Gly	Trp	Ser	Leu	Cys	Phe	Thr	Arg	Pro	Trp	Lys	Ala	Ala	Gly	Val	Pro
	50					55					60				
Leu	Cys	Val	Leu	Leu	Val	Trp	Ala	Glu	Met	Pro	Glu	Trp	Gly	Ser	Leu
65					70				75					80	
Pro	Pro	Ala	Gln	Pro	Phe	Val	Pro	Thr	Pro	Ser	Glu	Cys	Arg	Trp	Ser
				85					90					95	

Ser

<210> 6131

<211> 595

<212> PRT

<213> Enterobacter cloacae

<400> 6131

Thr	Thr	Phe	Phe	Val	Ser	Gly	Trp	Cys	Phe	Ser	Leu	Phe	Gln	Ser	Ser
1				5					10					15	
Lys	Trp	Asn	Arg	Asn	Asn	Met	Arg	Thr	Ser	Gln	Tyr	Leu	Leu	Ser	Thr
			20				25						30		
Leu	Lys	Glu	Thr	Pro	Ala	Asp	Ala	Glu	Val	Ile	Ser	His	Gln	Leu	Met
		35					40					45			
Leu	Arg	Ala	Gly	Met	Ile	Arg	Lys	Leu	Ala	Ser	Gly	Leu	Tyr	Thr	Trp
	50					55					60				
Leu	Pro	Thr	Gly	Val	Arg	Val	Leu	Lys	Lys	Val	Glu	Asn	Ile	Val	Arg
65					70				75					80	
Glu	Glu	Met	Asn	Asn	Ala	Gly	Ala	Ile	Glu	Val	Leu	Met	Pro	Val	Val
				85					90					95	
Gln	Pro	Ser	Glu	Leu	Trp	Gln	Glu	Ser	Gly	Arg	Trp	Glu	Gln	Tyr	Gly
			100					105					110		
Pro	Glu	Leu	Leu	Arg	Ile	Ala	Asp	Arg	Gly	Asp	Arg	Pro	Phe	Val	Leu
		115					120					125			
Gly	Pro	Thr	His	Glu	Glu	Val	Ile	Thr	Asp	Leu	Ile	Arg	Asn	Glu	Leu
	130					135					140				
Ser	Ser	Tyr	Lys	Gln	Leu	Pro	Leu	Asn	Phe	Phe	Gln	Ile	Gln	Thr	Lys
145					150				155						160

Phe Arg Asp Glu Val Arg Pro Arg Phe Gly Val Met Arg Ser Arg Glu
 165 170 175
 Phe Leu Met Lys Asp Ala Tyr Ser Phe His Thr Ser Gln Glu Ser Leu
 180 185 190
 Gln Glu Thr Tyr Asp Lys Met Tyr Ala Ala Tyr Ser Lys Ile Phe Ser
 195 200 205
 Arg Met Gly Leu Asp Phe Arg Ala Val Gln Ala Asp Thr Gly Ser Ile
 210 215 220
 Gly Gly Ser Ala Ser His Glu Phe Gln Val Leu Ala Gln Ser Gly Glu
 225 230 235 240
 Asp Asp Val Ile Phe Ser Asp Ser Ser Asp Tyr Ala Ala Asn Ile Glu
 245 250 255
 Phe Ala Glu Ala Leu Ala Pro Lys Glu Pro Arg Gly Ala Ala Thr Gln
 260 265 270
 Glu Met Thr Leu Val Asp Thr Pro Asn Ala Lys Thr Ile Ala Glu Leu
 275 280 285
 Val Glu Gln Phe Thr Leu Pro Ile Glu Lys Thr Val Lys Thr Leu Leu
 290 295 300
 Val Lys Ser Ala Glu Gly Ser Ala Tyr Pro Leu Val Ala Leu Leu Val
 305 310 315 320
 Arg Gly Asp His Glu Leu Asn Glu Val Lys Ala Glu Lys Leu Pro Gln
 325 330 335
 Val Ala Ser Pro Leu Thr Phe Ala Thr Glu Ala Glu Ile Arg Ala Val
 340 345 350
 Val Asn Ala Gly Pro Gly Ser Leu Gly Pro Val Asn Met Pro Val Pro
 355 360 365
 Val Val Ile Asp Arg Thr Val Ala Ala Met Ser Asp Phe Ala Ala Gly
 370 375 380
 Ala Asn Ile Asp Gly Lys His Tyr Phe Gly Ile Asn Trp Asp Arg Asp
 385 390 395 400
 Val Ala Thr Pro Glu Val Ala Asp Ile Arg Asn Val Val Ala Gly Asp
 405 410 415
 Pro Ser Pro Asp Gly Lys Gly Thr Leu Met Ile Lys Arg Gly Ile Glu
 420 425 430
 Val Gly His Ile Phe Gln Leu Gly Asp Lys Tyr Ser Arg Ala Met Asn
 435 440 445
 Ala Ala Val Gln Gly Glu Asp Gly Arg Asn Gln Val Leu Thr Met Gly
 450 455 460
 Cys Tyr Gly Ile Gly Val Thr Arg Val Val Ala Ala Ala Ile Glu Gln
 465 470 475 480
 Asn Tyr Asp Glu Arg Gly Ile Val Trp Pro Asp Asn Ile Ala Pro Phe
 485 490 495
 Gln Val Ala Ile Leu Pro Met Asn Met His Lys Ser Tyr Arg Val Gln
 500 505 510
 Glu Leu Ala Glu Lys Leu Tyr Ala Glu Leu Ser Ala Lys Gly Ile Asp
 515 520 525
 Val Leu Met Asp Asp Arg Lys Glu Arg Pro Gly Val Met Phe Ala Asp
 530 535 540
 Met Glu Leu Ile Gly Ile Pro His Thr Ile Val Ile Gly Asp Arg Asn
 545 550 555 560
 Leu Asp Ser Asp Glu Ile Glu Tyr Lys Tyr Arg Arg Asn Gly Glu Lys
 565 570 575
 Gln Met Ile Lys Thr Gly Asp Ile Leu Asp Tyr Leu Val Lys Ala Ile
 580 585 590
 Lys Gly
 595

<210> 6132

<211> 75

<212> PRT

<213> Enterobacter cloacae

<400> 6132

Val Ser Thr Leu Ala Gly Gly Asp Val Asn Asn Tyr Cys Glu Leu Ile
 1 5 10 15
 Arg Arg Arg Tyr Ala Glu Ile Ala Ser Gly Asp Leu Gly Tyr Ile Pro
 20 25 30
 Asp Ala Leu Gly Cys Val Leu Asn Val Leu Asn Glu Val Ala Ser Asp
 35 40 45
 Glu Ser Leu Ser Glu Ser Val Ser Gly Thr Ala Gly Phe Gln His Ala
 50 55 60
 Ala Pro Asp His Thr Val Leu Ser Pro Gly Gly
 65 70 75

<210> 6133

<211> 240

<212> PRT

<213> Enterobacter cloacae

<400> 6133

His Tyr Gly Glu Met Ser Ser Phe Gln Phe Glu His Ile Gly Val Ile
 1 5 10 15
 Arg Ser Pro Tyr Lys Glu Lys Phe Ala Val Pro Arg Gln Pro Gly Leu
 20 25 30
 Val Ile His Gly Gly Gly Glu Leu His Leu Val Ala Pro Tyr Asn Gln
 35 40 45
 Ala Asp Ala Val Arg Gly Leu Glu Ala Phe Ser His Leu Trp Val Val
 50 55 60
 Phe Val Phe His Gln Thr Met Glu Gly Gly Trp Arg Pro Thr Val Arg
 65 70 75 80
 Pro Pro Arg Leu Gly Gly Asn Ala Arg Met Gly Val Phe Ala Thr Arg
 85 90 95
 Ser Thr Phe Arg Pro Asn Pro Ile Gly Met Ser Leu Val Glu Leu Lys
 100 105 110
 Gly Ile Arg Cys Gln Arg Asp Gln Val Ile Leu Glu Leu Gly Ser Leu
 115 120 125
 Asp Leu Val Asp Gly Thr Pro Val Ile Asp Ile Lys Pro Tyr Leu Pro
 130 135 140
 Phe Ala Glu Ala Leu Pro Asp Ala Arg Ala Ser Tyr Ala Gln Asp Ala
 145 150 155 160
 Pro Gln Ala Asp Met Pro Val His Phe Thr Ser Glu Ile Thr Thr Gln
 165 170 175
 Ile Ser Glu Leu Glu Lys Arg Tyr Pro Arg Leu Arg Asp Phe Ile Val
 180 185 190
 Glu Val Leu Ala Gln Asp Pro Arg Pro Ala Tyr Arg Lys Glu Glu Glu
 195 200 205
 Ala Gly Lys Thr Tyr Ala Val Trp Leu Leu Asp Phe Asn Val Arg Trp
 210 215 220
 Arg Val Thr Ala Ala Gly Phe Glu Val Phe Ala Leu Glu Pro Arg
 225 230 235 240

<210> 6134

<211> 147

<212> PRT

<213> Enterobacter cloacae

<400> 6134

Glu Arg Asn Trp Gly Met Lys Ser Lys Ile Arg Tyr Val Leu Ser Gly
 1 5 10 15
 Phe Val Val Leu Cys Ala Phe Ala Gly Val Tyr Lys Ile Leu Asn Asn
 20 25 30
 Val Pro Val Lys Pro Asp Leu Leu Asp Phe Thr Gly Asn Thr Phe Lys

	35		40		45	
Lys	Thr	Ser	Leu	Phe	Leu	Pro
50					55	
Ile	Lys	Ile	Ala	Asp	Asn	Glu
65					70	
Lys	Val	Thr	Phe	Val	Glu	Lys
					85	
Cys	Asp	Asp	Leu	Asp	Leu	Asn
					100	
Tyr	Ser	Leu	Val	Ile	Ser	Glu
					115	
Phe	Lys	His	Leu	Ala	Asp	Asp
130					135	
Gln	Lys					
145						

<210> 6135

<211> 1226

<212> PRT

<213> Enterobacter cloacae

<400> 6135

Phe	Cys	Ser	Glu	Lys	Gln	Val	Phe	Val	Met	Arg	Lys	Ser	Gly	Leu	Gly
1				5					10					15	
Leu	Ala	Leu	Leu	Phe	Ser	Leu	Ile	Ala	Pro	Ile	Lys	Ala	Val	Tyr	Ala
			20					25					30		
Glu	Ala	Ile	Met	Ile	Ser	Gly	Lys	Leu	Gln	Ala	Asp	Leu	Pro	Ala	Val
		35					40					45			
Ser	Phe	Asp	Pro	Gly	Pro	Gly	Asp	Phe	Val	Ala	Tyr	Val	Asn	Ser	Asn
		50				55					60				
Thr	Ile	Thr	Ala	Ser	Gly	Ala	Gly	Thr	Ala	Cys	Asn	Val	Thr	Val	Asp
65					70				75					80	
Asp	Arg	Ala	Thr	Ser	Ser	Val	Asp	Asn	Leu	Val	Cys	Phe	Phe	Glu	Trp
				85				90						95	
Leu	Pro	Asn	Thr	Leu	Gly	Leu	Thr	Ser	Asn	Gly	Phe	Ile	Leu	Ser	Gly
			100					105					110		
Val	Pro	Tyr	Thr	Thr	Gly	Asp	Leu	Lys	Leu	Pro	Tyr	Lys	Ile	Ser	Tyr
		115					120					125			
Phe	Ser	Gly	Ser	Glu	Arg	Lys	Lys	Val	Glu	Ile	Val	Lys	Gly	Glu	Tyr
		130				135					140				
Ser	Ile	Lys	Ser	Val	Ala	Pro	Val	Lys	Pro	Thr	Ile	Thr	Gly	Leu	Lys
145					150				155					160	
Ser	Ser	Leu	Asn	Gly	Leu	Val	Tyr	Asp	Gly	Phe	Ser	Phe	Lys	Ser	Tyr
			165					170						175	
Leu	Lys	Asp	Glu	Ala	Ile	Lys	Asp	Ile	Ala	Val	Ser	Val	Glu	Pro	Arg
		180					185						190		
Asn	Tyr	Ile	Gln	Tyr	Ile	Ser	Ile	Gly	Ser	Gly	Ser	Ala	Cys	Glu	Val
		195				200						205			
Pro	Ile	Gly	Gly	Thr	Ser	Cys	Thr	Ile	Glu	Val	Gly	Ser	Ile	Lys	Ala
		210				215					220				
Ser	Asp	Thr	Asp	Glu	Leu	Leu	Gly	Ser	Arg	Asp	Ile	Thr	Ile	Thr	Ala
225					230				235					240	
Asn	Ser	Lys	Asn	Asn	Tyr	Phe	Ala	Pro	Pro	Glu	Ser	Lys	Lys	Leu	Val
			245					250						255	
Val	Asn	Trp	Asp	Tyr	Arg	Pro	Pro	Val	Val	Asp	His	Thr	Leu	Trp	Asn
		260					265						270		
Phe	Thr	Asp	Glu	Ala	Lys	Thr	Ile	Lys	Val	Gly	Gly	Gln	Asp	Ile	Tyr
		275				280						285			
Thr	Gly	Ala	Lys	Thr	Val	Ala	Val	Ala	Val	Lys	Val	Pro	Gln	Gln	Glu
		290				295					300				
Thr	Glu	Gly	Glu	Trp	Trp	Leu	Pro	Thr	Ala	Met	Ser	Leu	Thr	Met	Thr

305					310					315				320
Pro	Asp	Gly	Val	Phe	Lys	Pro	Thr	Thr	Lys	Val	Thr	Leu	Asp	Asp
				325					330				335	
Thr	Glu	Ile	Asp	Phe	Lys	Gln	Ser	Trp	Ala	Thr	Pro	Leu	Arg	Arg
			340					345					350	
Leu	Gln	Pro	Val	Ser	Gly	Pro	Gln	Lys	Val	Gly	Asp	Glu	Tyr	Leu
		355						360				365		
Ile	Phe	Asp	Leu	Thr	Asp	Leu	Ile	Asn	Gly	Ser	Tyr	Ala	Ala	Thr
	370					375					380			
Thr	Val	Glu	Asn	Thr	Ser	Lys	Asn	Ser	Ser	Thr	Tyr	Thr	Glu	Pro
385						390				395				400
Ser	Lys	Leu	Met	Leu	Ser	Asp	Asn	Pro	Thr	Leu	Met	Val	Leu	Lys
				405					410					415
Gly	Gln	Val	Leu	Thr	Lys	Arg	Ala	Pro	Val	Tyr	Phe	Leu	Asn	Glu
			420					425					430	
Ile	Val	Ala	Ala	Phe	Gln	Gly	Gln	Ala	Gly	Val	Ala	Asp	Ile	Lys
	435						440					445		
Val	Thr	Ile	Asp	Asn	Lys	Val	Val	Ser	Leu	Thr	Pro	Thr	Asn	Tyr
	450					455					460			
Gly	Ile	Tyr	Tyr	Leu	Pro	Val	Gly	Asp	Asp	Leu	Ala	Val	Asn	Ser
465					470					475				480
His	Glu	Ile	Thr	Val	Val	Ala	Glu	Asn	Leu	Tyr	Gly	Lys	Asn	Val
				485					490					495
Phe	Ser	Thr	Val	Phe	Thr	Tyr	Gln	Pro	Thr	Gly	Phe	Thr	Leu	Lys
			500					505					510	
Leu	Glu	Lys	Asn	Val	Thr	Leu	Tyr	Ser	Arg	Val	Arg	Gln	Tyr	Thr
		515						520				525		
Leu	Leu	Ser	Gln	Thr	Ala	Gly	Asp	Lys	Cys	Thr	Leu	Phe	Thr	Thr
	530					535					540			
Glu	Asn	Ala	Asn	Ala	Tyr	Leu	Ala	Trp	Tyr	Gly	Glu	Lys	Ser	Asp
545					550					555				560
Thr	Ala	Cys	Tyr	Pro	Gln	Trp	Asn	Asn	Val	Pro	Asp	Gly	Leu	Glu
				565					570					575
Tyr	Phe	Lys	Gly	Arg	Thr	Pro	Gly	Leu	Thr	Gly	Phe	Phe	Asn	Lys
			580					585					590	
Gly	Glu	Asn	Leu	Leu	Asp	Tyr	Gln	Val	Tyr	Met	Ile	Asn	Gly	Lys
		595					600					605		
Ser	Lys	Ala	Val	Ser	Ala	Arg	Asn	Arg	Arg	Thr	Leu	Thr	Thr	Gln
	610						615					620		
Pro	Tyr	Asn	Pro	Ile	Ile	Ser	Tyr	Lys	Lys	Asn	Lys	Val	Ile	Ala
625					630					635				640
Ile	Asn	Pro	Asn	Thr	Ala	Leu	Ala	Tyr	Thr	Thr	Gly	Gly	Glu	Ala
				645						650				655
Arg	Ile	Leu	Ala	Lys	Val	Val	Pro	Ala	Asp	Val	Thr	Met	Ile	Val
			660					665					670	
Gln	Asn	Gly	Ser	Glu	Ala	Val	Lys	Thr	Ser	Phe	Lys	Asn	Arg	Ser
		675						680				685		
Asn	Asn	Asp	Ala	Thr	Thr	Phe	Val	Gln	Arg	Val	Lys	Val	Ala	Ala
	690					695					700			
Pro	Leu	Trp	Thr	Lys	Asn	Val	Phe	Asp	Ile	Ala	Val	Glu	Tyr	Ser
705					710					715				720
Asp	Pro	Glu	Leu	Arg	Thr	Thr	Asp	Thr	Leu	Asn	Val	Tyr	Thr	Val
				725					730					735
Asp	Phe	Asn	Ile	Arg	Ala	Ser	Met	Glu	Val	Asp	Asp	Lys	Lys	Thr
			740					745					750	
Thr	Ser	Leu	Glu	Val	Pro	Leu	Lys	Val	Thr	Val	Gly	Arg	Tyr	Asn
		755					760					765		
Ser	Thr	Arg	Lys	Ser	Ala	Phe	Asp	Arg	Lys	Thr	Met	Gly	Glu	Trp
	770					775					780			
Val	Thr	Ile	Tyr	Ser	Gln	Lys	Ser	Val	Tyr	Gly	Lys	Asp	Pro	Glu
785					790					795				800

Gly Arg Tyr Lys Thr Thr Tyr Glu Arg Thr Ala Leu Thr Glu Ala Leu
 805 810 815
 Pro Val Asn Asp Ala Gly Ile Val Glu Thr Lys Ile Lys Ile Glu Asn
 820 825 830
 Met Asp Leu Gly Asn Met Arg Leu Val Gly Val Ala Lys Val Arg Ser
 835 840 845
 Pro Phe Ser Asp Phe Glu Met Lys Arg Glu Thr Ser Ala Val Gly Ile
 850 855 860
 Arg Ile Tyr Lys Gly Glu Glu Leu Glu Gly Asn Leu Ser Lys Ser Leu
 865 870 875 880
 Ile Ile Gly Arg Ile Pro Leu Ser Thr Leu Val Ser Phe Lys Ser Ala
 885 890 895
 Ser Thr Ala Asn Ser Asp Ala Leu Ala Pro Thr Glu Trp Gln Gln Ser
 900 905 910
 Ser Asp Asn Gly Gln Thr Trp Thr Met Leu Ser Asp Met Thr Gly Lys
 915 920 925
 Arg Ser Val Ser Ile Lys Lys Thr Glu Val Gly Lys Trp Leu Tyr Arg
 930 935 940
 Ala Lys Met Thr Asn Lys Phe Thr Ser Lys Ile Ser Tyr Thr Asp Ala
 945 950 955 960
 Leu Thr Val Val Thr Tyr Lys Gln Pro Lys Leu Ser Ile Asp Val Thr
 965 970 975
 Asp Ile Leu Gln Gly Ser Asp Ile Pro Val Thr Leu Leu Asp Asn Asp
 980 985 990
 Glu Pro Ile Pro Ala Gly Thr Ala Glu Val Leu Trp Ser Glu Asp Lys
 995 1000 1005
 Val Asn Trp Val Gln Gly Asp Thr Thr Tyr Thr Val Ala Ser Ala Asp
 1010 1015 1020
 Thr Leu Pro Ser Thr Ile Tyr Ala Arg Met Arg Tyr Leu Asp Ser Asp
 1025 1030 1035 1040
 Glu Leu Ala Glu Glu Ser Ser Trp Lys Glu Thr Ser Ala Arg Leu Ala
 1045 1050 1055
 Ala Ala Lys Pro Lys Arg Leu Ser Val Ser Val Thr Gly Val Ser Lys
 1060 1065 1070
 Val Glu Val Gly Gln Lys Val Thr Leu Glu Gly Lys Phe Thr Asn Pro
 1075 1080 1085
 Asn Ser Lys Tyr Gln Asn Gly Asn Asn Val Val Glu Glu Trp Lys Thr
 1090 1095 1100
 Pro Asp Gly Gln Thr Phe Lys Gly Ser Ser Leu Ser Val Thr Leu Thr
 1105 1110 1115 1120
 Glu Gln Met Leu Asp Lys Gln Gly Tyr Ala Ala Phe Glu Tyr Ser Ala
 1125 1130 1135
 Trp Leu Ala Asp Asn Lys Glu Asn Thr Val Ser Thr Arg Arg Val Ser
 1140 1145 1150
 Val Lys Ser Trp Val Tyr Lys Phe Pro Glu Met Lys Ile Ser Ser Lys
 1155 1160 1165
 Leu Lys Tyr Asp Met Ala Pro Thr Thr Leu Arg Val Ala Leu Ser Gly
 1170 1175 1180
 Ile Lys Asp Gly Asp Tyr Pro Gly Val Thr Tyr Ser Arg Glu Trp Ile
 1185 1190 1195 1200
 Tyr Asp Lys Glu Asn Leu Val Ile Thr Thr Asp Val Phe Thr Thr Glu
 1205 1210 1215
 Leu Ala Gly Pro Ala Pro Lys Gly Met Gly
 1220 1225

<210> 6136

<211> 160

<212> PRT

<213> Enterobacter cloacae

<400> 6136

Leu Ile Ile Ile Ile Lys Ala Asp Arg Met Leu Ser Arg Asn Ser Leu
 1 5 10 15
 Ile His Gly Leu Arg Arg Asp Gln Leu Ile Gly Val Leu Thr Ile Ser
 20 25 30
 Glu Phe Pro Val Val Met Val Glu Ser His Phe Ile Gln Ser Glu Val
 35 40 45
 Met Gly Ile Lys Pro Val Ile Phe Asn Ile Asp Glu Leu Leu Val Ser
 50 55 60
 Ile Ser Pro Ile Ser Ser Leu Lys Phe Asp Trp Glu Trp Ala Pro Val
 65 70 75 80
 Asp Thr Ile Leu Ile Glu Val Ile Ile Pro Pro Val Glu Ser Asp Leu
 85 90 95
 Val Ser Ala Glu Asn Asp Phe Leu Arg Asp Ser Gly Ile Gly His Ile
 100 105 110
 Gln Cys Glu Pro Gly Gly Ala Ser Ile Arg Arg Thr Val Thr Phe Val
 115 120 125
 Gly Gly Ile Thr Ala Asp Asn Leu Leu Tyr Gln Leu Arg Leu Met Cys
 130 135 140
 Val Ser Ala Leu Lys Leu Leu Gly Glu Glu Leu Gly Asp Glu Val
 145 150 155 160

<210> 6137

<211> 199

<212> PRT

<213> Enterobacter cloacae

<400> 6137

Ile Ile Arg Arg Tyr Val Val Leu Ser Lys Val Thr Phe Tyr Met Ala
 1 5 10 15
 Thr Ser Asp Phe Ala Leu Lys Asn His Asn Val Lys Ala Phe Gly Gln
 20 25 30
 Asp Ala Ala Leu Val Ile Glu Met Asn Asn Glu Asp Val Ser Ser Ser
 35 40 45
 Lys Pro Ser Pro Phe Ser Asn Glu Ile Asp Asn Tyr Tyr Leu Thr Leu
 50 55 60
 His Val Ala Pro Arg Asn Ala Lys Lys Asp Tyr Asp Trp Gly Ser Asn
 65 70 75 80
 Arg Ser Val Leu Leu Lys Leu Ser Thr Asn Glu Val Met Gln Met Ala
 85 90 95
 Ser Val Phe Leu Arg Ile Met His Thr Leu Lys Ile Asp Lys Arg Lys
 100 105 110
 Thr Ser His His Gly His Val Val Tyr Lys Asn Ile Ser Val Thr Pro
 115 120 125
 Asn Glu Arg Gly Gly Leu Leu Ser Ala Gly Ile Val Pro Val Asp
 130 135 140
 Lys Asp Gly Leu Lys Pro Phe Met His Met Val Pro Val Ser Gln Met
 145 150 155 160
 Asp Cys Val Lys Ile Gly Leu Tyr Ile Leu Gly Tyr Leu Ala Gln Lys
 165 170 175
 Thr Pro Trp Val Ser Ser Glu Ser Ile Ile Thr Ala Leu Arg Leu Ser
 180 185 190
 Glu Ala Lys Asn Ser Lys
 195

<210> 6138

<211> 173

<212> PRT

<213> Enterobacter cloacae

<400> 6138

Gln Phe Lys Leu Leu Asn Pro Leu Lys Gly Val Phe Met Ala Ile Pro

1		5		10		15									
Ala	Tyr	Leu	Trp	Leu	Lys	Asp	Asp	Gly	Gly	Ala	Asp	Ile	Lys	Gly	Ala
		20						25					30		
Val	Asp	Val	Gln	Asp	Arg	Glu	Gly	Ser	Ile	Glu	Val	Leu	Gly	Phe	Gly
		35					40					45			
His	Gly	Leu	His	Leu	Pro	Thr	Asp	Asn	Met	Thr	Gly	Lys	Ile	Thr	Gly
		50				55					60				
Thr	Arg	Val	His	Ser	Ala	Leu	Val	Phe	Glu	Lys	Glu	Phe	Asp	Ser	Ser
65				70					75					80	
Ser	Pro	Tyr	Leu	Tyr	Lys	Ala	Val	Ala	Lys	Gly	Gln	Thr	Leu	Lys	Ser
			85						90					95	
Ala	Glu	Phe	Lys	Trp	Tyr	Lys	Ile	Asn	Asp	Ala	Gly	Gln	Glu	Ala	Glu
		100						105					110		
Tyr	Phe	Asn	Met	Lys	Leu	Glu	Asn	Val	Lys	Val	Val	Ser	Ile	Cys	Pro
		115				120						125			
Met	Met	His	Asp	Val	Lys	Asn	Pro	Ala	Thr	Glu	Lys	His	Asn	His	Leu
		130				135					140				
Glu	Ser	Val	Ala	Leu	Arg	Tyr	Glu	Lys	Ile	Thr	Trp	Lys	His	Cys	Asp
145				150						155					160
Gly	Asn	Ile	Ile	Phe	Ser	Asp	Glu	Trp	Lys	Asp	Arg				
			165					170							

<210> 6139

<211> 428

<212> PRT

<213> Enterobacter cloacae

<400> 6139

Ile	Cys	Glu	Leu	Asn	Met	Phe	Ala	Leu	Cys	Asp	Val	Asn	Ser	Phe	Tyr
1			5					10					15		
Ala	Ser	Cys	Glu	Thr	Val	Phe	Arg	Pro	Asp	Leu	Arg	Gly	Arg	Pro	Val
		20						25				30			
Val	Val	Leu	Ser	Asn	Asn	Asp	Gly	Cys	Val	Ile	Ala	Arg	Ser	Ala	Glu
		35				40					45				
Ala	Lys	Ala	Ala	Gly	Ile	Thr	Met	Gly	Glu	Pro	Phe	Phe	Lys	Gln	Lys
	50				55				60						
Glu	Leu	Phe	Arg	Arg	Ala	Gly	Val	Val	Cys	Phe	Ser	Ser	Asn	Tyr	Glu
65				70					75					80	
Leu	Tyr	Ala	Asp	Met	Ser	Asn	Arg	Val	Met	Thr	Thr	Leu	Glu	Glu	Met
			85					90					95		
Ser	Pro	Arg	Val	Glu	Ile	Tyr	Ser	Ile	Asp	Glu	Ala	Phe	Cys	Asp	Leu
		100					105					110			
Thr	Gly	Val	Arg	Asn	Cys	Arg	Asp	Leu	Thr	Glu	Phe	Gly	Lys	Glu	Ile
	115				120						125				
Arg	Ala	Thr	Val	Leu	Lys	Arg	Thr	His	Leu	Thr	Val	Gly	Val	Gly	Ile
	130				135						140				
Ala	Gln	Thr	Lys	Thr	Leu	Ala	Lys	Leu	Ala	Asn	His	Ala	Ala	Lys	Lys
145				150					155					160	
Trp	Gln	Arg	Gln	Thr	Gly	Gly	Val	Val	Asp	Leu	Ser	Asn	Ile	Asp	Arg
			165					170					175		
Gln	Arg	Arg	Leu	Leu	Ala	Leu	Val	Pro	Val	Glu	Asp	Val	Trp	Gly	Val
		180					185					190			
Gly	Arg	Arg	Ile	Ser	Lys	Lys	Leu	Asn	Ala	Met	Gly	Ile	Lys	Thr	Ala
	195				200						205				
Leu	Asp	Leu	Ser	Glu	Gln	Ser	Thr	Trp	Ile	Ile	Arg	Lys	His	Phe	Asn
	210				215						220				
Val	Val	Leu	Glu	Arg	Thr	Val	Arg	Glu	Leu	Arg	Gly	Glu	Pro	Cys	Leu
225				230					235					240	
Glu	Leu	Glu	Glu	Phe	Ala	Pro	Ala	Lys	Gln	Glu	Ile	Val	Cys	Ser	Arg
			245					250					255		
Ser	Phe	Gly	Glu	Arg	Val	Thr	Glu	Tyr	Glu	Gln	Met	Arg	Gln	Ala	Ile

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<210> 6140
<211> 158
<212> PRT
<213> Enterobacter cloacae
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<210> 6141
<211> 316
<212> PRT
<213> Enterobacter cloacae
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<400> 6141
Arg Lys Glu Phe Cys Met Asn Val Lys Pro Ser Leu Asp Glu Leu Phe
1 5 10 15
Glu Arg Arg Ile Asn Phe Pro Asp Phe Glu Pro Gln Glu Arg Leu Ala
20 25 30
Arg Leu Val Gly Leu Asp Glu His Lys Asp Arg Leu Ser Lys Ile Leu
35 40 45

Gly Leu Leu Val Asn Pro Tyr Gly Ile Gln Glu Trp Ala Lys Lys Tyr
 50 55 60
 His Pro Asp Ala Arg Ala Val Asp Thr Val Leu Arg Arg Pro Pro
 65 70 75 80
 Leu Val Val Leu Ala Gly Asp Val Gly Ser Gly Lys Thr Glu Leu Ala
 85 90 95
 Glu Thr Ile Gly Asp Ala Val Ala Arg Gln Glu Asp Ile Asp Ile Thr
 100 105 110
 Leu Tyr Pro Leu Ser Leu Ala Thr Arg Gly Gln Gly Arg Val Gly Glu
 115 120 125
 Met Thr Gln Leu Val Ser Ala Ala Phe Asp Tyr Thr Ile Glu Ala Ala
 130 135 140
 Asp Lys Leu Lys Asn Thr Asn Gly Lys Ala Arg Gly Ala Val Leu Leu
 145 150 155 160
 Leu Ile Asp Glu Ala Asp Ala Leu Ala Gln Ser Arg Glu Asn Ala Gln
 165 170 175
 Met His His Glu Asp Arg Ala Gly Val Asn Ala Phe Ile Arg Gly Ile
 180 185 190
 Asp Arg Ile Ala Asn Gln Lys Leu Pro Ala Ala Val Leu Met Cys Thr
 195 200 205
 Asn Arg Leu Lys Ala Leu Asp Pro Ala Val Gln Arg Arg Ala Ala Glu
 210 215 220
 Val Leu Thr Phe Ser Arg Pro Asn Asp Glu Gln Arg His Tyr Leu Leu
 225 230 235 240
 His Ser Lys Leu Thr Gly Leu Gly Leu Asn Ser Thr Ala Ile Glu Glu
 245 250 255
 Leu Val Arg Leu Thr Gly Pro Arg Asp Thr Asn Ser Pro Gly Phe Thr
 260 265 270
 Phe Ser Asp Ile Thr Gln Arg Leu Ile Pro Ser Ile Ile Leu Thr Ala
 275 280 285
 Tyr Pro Tyr Ser Ala Val Ser Val His Ser Ala Leu Gln Val Val Asn
 290 295 300
 Lys Met Thr Pro Thr Pro Ala Phe Ile Asp Arg
 305 310 315

<210> 6142

<211> 174

<212> PRT

<213> Enterobacter cloacae

<400> 6142

Asn Ser Asn Leu Leu Asn Asn Arg Thr Ile Cys Pro Gln Val Arg Met
 1 5 10 15
 His Met Ser Gly Phe Gln Glu Trp Leu Leu Ser Lys Ala Thr Gly Asn
 20 25 30
 Tyr Phe Leu Tyr Ile Lys Arg Leu Ser Ala Asn Asp Thr Gly Ala Thr
 35 40 45
 Gly Gly His Gln Val Gly Leu Tyr Ile Pro Ser Gly Ile Val Ala Glu
 50 55 60
 Leu Phe Pro Ser Ile Asp Asn Thr Lys Glu Gln Asn Pro Ser Val Phe
 65 70 75 80
 Leu Asn Ala Thr Tyr Ser Ser His Val Cys Ser Asp Ser Glu Ala Arg
 85 90 95
 Ala Ile Tyr Tyr Asn Gly Ser Phe Phe Gly Lys Thr Arg Asn Glu Lys
 100 105 110
 Arg Ile Thr Arg Trp Gly Pro Gly Ser Pro Leu Gln Asp Pro Glu Asn
 115 120 125
 Thr Gly Gly Leu Ser Ile Leu Ala Phe Glu His Glu Pro Gly Ser Asp
 130 135 140
 Ser Lys Asn Val Asp Val Trp Val Cys Lys Asn Pro Asp Glu Glu Asp
 145 150 155 160

Ile Val Glu Ser Ile Leu Gly Glu Ile Ile Pro Gly Ala Leu
 165 170

<210> 6143

<211> 81

<212> PRT

<213> Enterobacter cloacae

<400> 6143

Pro Lys Ser Leu Leu Ile Gln Leu Gly Pro Asn Pro Gly Thr Phe Arg
 1 5 10 15
 Arg Val Leu Asn Asn Lys Lys Phe His Leu Pro Phe Pro Asn Gln Lys
 20 25 30
 Pro Asn Glu Phe Gly Ser Leu Asn Thr Pro Gln Leu Pro Asn Gly Ser
 35 40 45
 Phe Pro Gly Val Pro Gly Ala Asn Thr Pro Ala Gly Val Leu Ser Ile
 50 55 60
 Pro Leu Leu Leu Pro Thr Gly Asp Ile Phe Pro Ala Arg Tyr Glu Leu
 65 70 75 80
 Val

<210> 6144

<211> 105

<212> PRT

<213> Enterobacter cloacae

<400> 6144

Thr Met Ile Cys Ala Ala Cys Arg Lys Pro Ala Val Gly Ala Gly Met
 1 5 10 15
 Thr Ile Thr Arg Ser Gly Val Met Arg Arg Ala Pro Leu Ala Met Arg
 20 25 30
 Leu Arg Ala Asn Ser Thr Trp Ala Met Leu Glu Phe Val Phe Asn Gly
 35 40 45
 Met Val Phe Leu Leu Leu Gly Leu Gln Leu Pro Gly Gln Leu Trp Lys
 50 55 60
 Ser Ser Ala Glu Leu Pro Ala Gln Ser Arg Phe Gln Asn Leu Gly Asn
 65 70 75 80
 Ser Gly Ile Pro Ile Asn Arg Asn Pro Cys Ser Ser Asn Leu Ala Leu
 85 90 95
 Ile Leu Val Leu Ser Gly Gly Phe
 100 105

<210> 6145

<211> 98

<212> PRT

<213> Enterobacter cloacae

<400> 6145

Cys Leu His Lys Pro His Glu Asp Ile Pro Met Lys Lys Arg Phe Ser
 1 5 10 15
 Asp Glu Gln Ile Ile Ser Ile Leu Arg Glu Ala Glu Ala Gly Val Pro
 20 25 30
 Ala Arg Glu Leu Cys Arg Lys His Ala Ile Ser Asp Ala Thr Phe Tyr
 35 40 45
 Ile Trp Arg Lys Lys Tyr Gly Gly Met Glu Val Pro Glu Val Lys Arg
 50 55 60
 Leu Lys Ser Leu Glu Glu Glu Asn Ala Arg Leu Lys Lys Leu Leu Ala
 65 70 75 80
 Glu Ala Met Leu Asp Lys Glu Ala Leu Gln Val Ala Leu Gly Arg Lys
 85 90 95

Tyr

<210> 6146

<211> 703

<212> PRT

<213> Enterobacter cloacae

<400> 6146

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Pro Glu Arg Gly Trp Glu Pro Ile Met Ser Asp Ser Lys Arg Thr Asn
1      5      10      15
Leu His Ala Gln Glu Asn Phe Tyr Arg Pro Ile Leu Glu Tyr Arg Ser
20      25      30
Ala Ser Ile Leu Leu Ile Cys Ser Val Ser Met Leu Tyr Met Gly Leu
35      40      45
Ser Ser Asp Gly Leu Asp Ile Ala Pro Ile Val Leu Phe Thr Ser Ile
50      55      60
Leu Leu Phe Leu Leu Cys Leu Tyr Arg Cys Lys Thr Ala Ala Pro Phe
65      70      75      80
Leu Met Ala His Trp Arg Val Phe Lys Arg His Phe Met Phe Val Ser
85      90      95
Leu Asp Ser Leu Arg Val Ile Asn Lys Ser Asn Phe Phe Ser Asn Glu
100      105      110
Arg Lys Tyr Arg Gln Leu Val Gln Asp Tyr Gln Asn Lys Asn Lys Asp
115      120      125
Ile Pro Glu Arg Lys Ser Tyr Phe Cys Asp Gly Phe Glu Trp Gly Pro
130      135      140
Glu His Ala Asp Arg Ala Tyr Gln Ile Ala Asn Leu Ser Ser Asp Lys
145      150      155      160
Arg Glu Ile Glu Leu Pro Phe Val Phe Asn Pro Ile Lys Arg His Phe
165      170      175
Asp Ala Met Ala Arg Lys Met Gly Gly Ser Asn Ala Ile Phe Ala Val
180      185      190
Glu Arg Arg Glu Pro Ile Phe Val Thr Glu Asp Asn Trp Phe Gly His
195      200      205
Thr Leu Ile Thr Gly Asn Val Gly Thr Gly Lys Thr Val Leu Gln Arg
210      215      220
Leu Leu Ser Ile Ser Met Leu His Leu Gly His Val Val Val Ile
225      230      235      240
Asp Pro Lys Asn Asp Ala Glu Trp Arg Glu Ser Leu Met Glu Glu Ala
245      250      255
Lys Thr Leu Gly Leu Pro Phe Tyr Lys Phe His Pro Gly Gln Pro Ala
260      265      270
Ser Ser Val Cys Ile Asp Val Cys Asn Thr Tyr Thr Asn Val Ser Asp
275      280      285
Leu Thr Ser Arg Leu Leu Ser Leu Val Thr Val Pro Gly Glu Val Asn
290      295      300
Pro Phe Val Gln Tyr Ala Lys Ala Leu Val Ser Asn Val Ile Ser Gly
305      310      315      320
Leu Ser Tyr Ile Glu Lys Lys Pro Ser Ile Tyr Leu Ile His Lys Asn
325      330      335
Met Lys Ser His Met Ser Ile Val Asn Leu Thr Val Lys Val Met Glu
340      345      350
Ser Cys Tyr Ala Arg Tyr Tyr Gly Tyr Asp Val Trp Thr Glu Lys Val
355      360      365
Lys Tyr Val Ala Asn Asp Thr Leu Pro Val Arg Phe Lys Arg Leu Ala
370      375      380
Glu Trp Phe Thr Ala His Phe Met Asn Tyr Glu Gly Ser Glu Gln Ile
385      390      395      400
Asp Trp Leu Asp Thr Val Ser Gln Leu Ile Asp Tyr Ser Met Ser Asp
405      410      415

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Pro Glu His Met Ala Lys Met Thr Ala Gly Ile Met Pro Val Phe Asp
 420 425 430
 Met Leu Ile Glu Lys Pro Leu Asn Glu Leu Leu Ser Pro Asn Pro Asn
 435 440 445
 Ser Val Ser Ser Arg Glu Ile Val Thr Ser Glu Gly Met Phe Ser Thr
 450 455 460
 Gly Gly Val Leu Tyr Ile Ser Leu Asp Gly Leu Ser Asn Pro Asp Thr
 465 470 475 480
 Ala Ala Ala Ile Ser Gln Leu Ile Met Ser Asp Leu Thr Ser Cys Ala
 485 490 495
 Gly Ser Arg Tyr Asn Ala Gln Asp Gly Asp Met Ser Ala Asn Ser Arg
 500 505 510
 Ile Ser Ile Phe Val Asp Glu Ala His Ser Ala Ile Asn Asn Pro Met
 515 520 525
 Ile Asn Leu Leu Ala Gln Gly Arg Ala Ala Lys Ile Ala Leu Phe Ile
 530 535 540
 Cys Thr Gln Thr Ile Ser Asp Phe Ile Ala Ala Ala Ser Val Glu Thr
 545 550 555 560
 Ala Asn Arg Ile Thr Gly Leu Cys Asn Asn Tyr Ile Ser Leu Arg Val
 565 570 575
 Asn Asp Thr Pro Thr Gln Thr Leu Val Glu Asn Phe Gly Lys Ser
 580 585 590
 Ala Ile Ser Thr Asn Met Val Thr Tyr Thr Thr Gly Ser Glu Thr Ser
 595 600 605
 Leu Pro His Asn Asn Phe Ser Gly Ser Ile Ser Glu Arg Lys Gln Thr
 610 615 620
 Thr Leu Glu Glu Ser Ile Pro Lys Asp Leu Leu Gly Gln Val Pro Met
 625 630 635 640
 Phe His Ile Val Ala Arg Leu Gln Asp Gly Arg Lys Val Val Gly Gln
 645 650 655
 Ile Pro Ile Ala Val Ala Glu Lys Gln Met Lys Pro Asn Thr Thr Leu
 660 665 670
 Ser Glu Met Leu Phe Lys Lys Ala Gly Lys Val Thr Leu Arg Gln Asn
 675 680 685
 Leu Asp Ile Lys Asn Leu Asn Lys Phe Leu Arg Lys Leu His
 690 695 700

<210> 6147

<211> 871

<212> PRT

<213> Enterobacter cloacae

<400> 6147

Arg Pro Ser Thr Ser Arg Leu Pro Ala Ser Gly Leu Ser Ser Val Leu
 1 5 10 15
 Ser Pro Lys Ser His Leu Lys Arg Leu Phe Ile Gln His Gly Phe Gly
 20 25 30
 Lys Gln Leu Leu Glu Ser Gly Val Leu Phe Leu Lys Arg Leu Gln Ala
 35 40 45
 Leu Asn Phe Arg His Leu His Thr Ala Ile Leu Leu Thr Pro Asp Val
 50 55 60
 Lys Arg Gly Ile Gly Asn Gly Met Leu Ala Ala Glu Phe Thr Gly Gly
 65 70 75 80
 Tyr Pro Ser Phe Gly Phe Ala Glu Asn Thr Asp Asp Leu Phe Val Gly
 85 90 95
 Lys Thr Leu Leu His Gly Asp Val Leu Met Trp Leu Met Lys Thr Leu
 100 105 110
 Leu Thr Ser Gly Cys Thr Asn Gln Arg Gly Ala Gly Gln Arg Asp Pro
 115 120 125
 Ile Met Gly Leu Arg Ser Asn Asp Ala Ala Ala Arg Ala Ile Ser Thr
 130 135 140

Ile	Lys	His	Asn	Phe	Thr	Ser	Ile	Asn	Ile	Asn	Asn	Tyr	Asn	Ala	Lys
145					150				155						160
Pro	Met	His	Ile	Ile	Val	Asn	Gly	Glu	Val	Tyr	Leu	Asn	Glu	Asn	
			165					170						175	
Ala	Phe	Leu	Asp	Phe	Val	Leu	Asn	Asp	Phe	Glu	Leu	His	Lys	Tyr	Asn
			180					185					190		
Phe	Pro	Gln	Gly	Glu	Ala	Gly	Lys	Thr	Val	Leu	Val	Glu	Ser	Leu	Val
			195				200					205			
Gln	Arg	Gly	Tyr	Val	Glu	Pro	Tyr	Asp	Asp	Glu	Arg	Val	Val	His	Tyr
			210				215				220				
Phe	Ile	Pro	Gly	Ile	Tyr	Ser	Glu	Asn	Glu	Ile	Ser	Asn	Ile	Phe	Arg
225						230				235					240
Asn	Gly	Ile	Gly	Lys	Leu	Glu	Phe	Tyr	Asn	Leu	Leu	Lys	Leu	Arg	Trp
				245					250					255	
Ile	Gly	Leu	Ile	Phe	Asp	Ser	Tyr	Lys	Ile	Pro	Asp	Ser	Val	Pro	Gly
			260					265					270		
Leu	Phe	Ser	Val	Asn	Ala	Asn	Lys	Asp	Phe	Ile	Tyr	Ile	Asp	Glu	Gln
			275				280					285			
Lys	Thr	Val	Thr	Glu	Tyr	Arg	Pro	Val	Pro	Gly	Arg	Asp	Val	Ile	
						295					300				
Thr	Lys	Ile	Thr	Asp	Thr	Val	Glu	Thr	Ala	Val	Leu	Lys	Val	Asn	Asp
305						310				315					320
Leu	Gly	Arg	Ser	Ser	Ala	Ser	Ile	Asp	Val	Asp	Ile	His	Ser	Lys	Lys
				325					330					335	
Asn	Glu	Gly	Ser	Ser	Asp	Asp	Phe	Glu	Lys	Lys	Ala	Glu	Ser	Asp	Asn
				340				345					350		
Glu	Ile	Asp	Asn	Asp	Thr	Gln	Ile	Val	Lys	Ser	Glu	Gly	Glu	Glu	Ala
			355				360					365			
Ala	Asp	Pro	Val	Ile	Pro	Asp	Ile	Glu	Glu	Ser	Glu	Asp	Glu	Ser	Ala
						375					380				
Lys	Asp	Thr	Glu	Ser	His	Val	Leu	Val	Asn	Gln	Leu	His	Glu	Leu	Leu
385						390				395					400
Leu	Ser	Ala	Pro	Leu	Ser	Asn	Asp	Tyr	Ile	Val	Cys	Val	Asp	Ala	Val
				405					410					415	
Pro	Tyr	Leu	Asn	Ile	Asp	Thr	Thr	Met	Ala	Leu	Leu	Pro	Gly	Leu	Asp
			420					425					430		
Glu	Lys	Ala	Phe	Ser	Glu	Glu	Pro	Tyr	Phe	Gln	Leu	Thr	Phe	Arg	Glu
			435				440					445			
Gly	Ser	Leu	Asp	Gly	Met	Trp	Ile	Val	Arg	Asp	Ile	Asp	Asp	Leu	Arg
						455					460				
Leu	Val	Gln	Leu	Gly	Asp	Asn	Cys	Ala	Gly	Phe	Gln	Leu	Thr	Tyr	His
465					470					475					480
Glu	Pro	Arg	Arg	Pro	Thr	Thr	Leu	Lys	Ser	Leu	Phe	Asn	Thr	Ser	Met
				485					490					495	
Tyr	Gln	Ala	Leu	Val	Ile	Asn	Asp	Glu	Ser	Ser	Val	Glu	Asn	Ser	Ala
				500				505					510		
Pro	Arg	Pro	Lys	Gln	Thr	Leu	Glu	Leu	Pro	Pro	Pro	Arg	Val	Asn	Ala
			515				520					525			
Val	Glu	Glu	His	Ser	Gly	Asp	Val	Glu	Tyr	His	Gly	Thr	Asp	Ser	Ala
						535					540				
Ser	Ala	Thr	Gly	Pro	Leu	Lys	Thr	Glu	Ala	Val	Glu	Tyr	Glu	His	Tyr
545					550					555					560
Gln	His	Leu	Phe	Glu	Lys	Glu	Asp	Glu	Glu	His	Glu	Ile	Ile	Asp	Tyr
				565					570					575	
Thr	Asp	Phe	Ser	Gln	Leu	Ser	Val	Ser	Arg	Pro	Glu	Val	Gly	Ser	Cys
				580				585					590		
Ala	Thr	Ser	Ser	Ser	Val	His	Asn	Glu	Lys	Leu	Leu	Ser	Glu	Pro	Ser
				595			600					605			
Glu	Leu	Pro	Glu	Leu	Asn	Arg	Glu	Gln	Asn	Ala	Asp	Pro	Gln	Gly	Thr
				610			615				620				
Asn	Glu	Arg	Ser	Met	Asp	Val	Ser	Val	Gly	Gln	Glu	Asn	Ser	Glu	Pro

625					630					635				640
Asp	Thr	Glu	Gly	Asn	Cys	Pro	Pro	Pro	Ala	Glu	Val	Val	Tyr	Ser
				645					650				655	
Thr	Glu	Ala	Ala	Ala	Thr	Ser	Val	Met	Ala	Ser	Glu	Glu	Pro	Ala
			660					665					670	
Pro	Pro	Val	Leu	Glu	Glu	Ser	Asn	Gly	Glu	His	Ala	Pro	Thr	Asp
		675					680					685		
Lys	Gly	His	His	Leu	Ser	Pro	Ala	Leu	Ala	Arg	Leu	Phe	Ala	Pro
	690					695				700				
Ala	Pro	Val	Glu	Lys	Gln	Asn	Pro	Lys	Arg	Asn	Arg	Asn	Lys	Ser
705					710					715				720
Asp	Lys	Ala	Glu	Val	Gln	Lys	Pro	Ala	Ser	Pro	Val	Ser	Gly	His
				725					730				735	
Leu	Asn	Ser	Lys	Val	Phe	Ala	Ser	Thr	Glu	Ser	Asp	Gln	Asn	Gly
			740					745				750		
Phe	Ser	Leu	Ile	Ser	Glu	Gly	Asp	Val	Thr	Glu	Leu	Glu	Phe	Val
		755					760					765		
Ile	Ala	Leu	Val	Leu	His	Gln	Ile	Leu	Ser	Lys	Met	Glu	Val	Ala
	770					775					780			
Lys	Arg	Lys	Arg	Lys	Asn	Arg	Phe	Met	Val	Ser	Thr	Pro	Asn	Thr
785					790					795				800
Tyr	Leu	Thr	Gln	Ser	Cys	Val	Glu	Lys	Phe	Gly	Ser	Gln	Leu	Glu
				805					810				815	
Gln	Asp	Leu	Phe	Asn	Lys	Leu	Pro	Gln	Tyr	Leu	Val	Asn	Ser	Gly
			820					825				830		
Val	Ile	Asn	Thr	Lys	Cys	His	Ala	Phe	Asn	Met	Pro	Thr	Leu	Leu
		835					840				845			
Ala	Ser	Asp	Arg	Ala	Lys	Val	Asp	Ile	Glu	Arg	Ile	Ile	Asn	Asn
	850					855					860			
Lys	Glu	Ala	Gly	Asn	Leu									
865					870									

<210> 6148

<211> 256

<212> PRT

<213> Enterobacter cloacae

<400> 6148

Ser	Ser	Ser	Gln	His	Tyr	Glu	Ser	Phe	Ile	Ser	Thr	Gly	Ser	Thr	Met
1				5					10					15	
Ile	Glu	Ile	Glu	Thr	Arg	Gln	Leu	Ser	Glu	His	Glu	Ile	Ile	His	Ala
			20					25					30		
Phe	Pro	Ala	Gly	Lys	Gly	Glu	Gln	Pro	Leu	Pro	Thr	Val	Val	Phe	Tyr
		35					40					45			
His	Gly	Phe	Leu	Ser	Ser	Lys	Leu	Val	Tyr	Ser	Tyr	Phe	Ala	Val	Ala
	50					55					60				
Leu	Ala	Gln	Ala	Gly	Phe	Arg	Val	Val	Met	Pro	Asp	Ala	Pro	Asn	His
65					70				75					80	
Gly	Ala	Arg	Phe	Thr	Gly	Asp	Glu	Gln	Ala	Arg	Leu	Gly	Leu	Phe	Trp
			85					90					95		
Gln	Thr	Leu	His	Gly	Asn	Leu	Thr	Glu	Phe	Ala	Gly	Leu	Arg	Asp	Ala
			100					105					110		
Leu	Leu	Gln	Ala	Gly	Leu	Val	Glu	Gly	Lys	Arg	Leu	Ala	Val	Ala	Gly
	115						120					125			
Ala	Ser	Met	Gly	Gly	Met	Thr	Ala	Leu	Gly	Ile	Met	Ala	Arg	His	Pro
	130					135					140				
Glu	Val	Thr	Ser	Val	Ala	Cys	Leu	Met	Gly	Ser	Gly	Tyr	Phe	Thr	Ser
145					150				155					160	
Leu	Ala	Lys	Thr	Leu	Phe	Pro	Pro	Gln	Ala	Pro	Gln	Glu	Ile	Glu	Thr
				165				170					175		
Leu	Leu	Ser	Glu	Trp	Asp	Val	Ser	His	Ala	Leu	Ser	Gln	Leu	Ala	Asp

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<210> 6149
<211> 253
<212> PRT
<213> Enterobacter cloacae
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<210> 6150
<211> 77
<212> PRT
<213> Enterobacter cloacae
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<400> 6150															
Pro	Asp	Pro	Ile	Arg	Gln	Ala	Thr	Asp	Val	Thr	Ser	Gly	Cys	Leu	Ala
1				5					10					15	
Met	Ile	Pro	Ser	Ala	Val	Ile	Pro	Pro	Ile	Asp	Ala	Pro	Ala	Thr	Ala
			20					25					30		
Ser	Arg	Phe	Pro	Ser	Thr	Ser	Pro	Ala	Cys	Lys	Ser	Ala	Ser	Arg	Ser
		35					40					45			

Pro Ala Asn Ser Val Arg Leu Pro Cys Ser Val Cys Gln Asn Ser Pro
 50 55 60
 Ser Arg Ala Cys Ser Ser Pro Val Lys Arg Ala Pro
 65 70 75

<210> 6151
 <211> 149
 <212> PRT
 <213> Enterobacter cloacae

<400> 6151
 Met Ile His Asn Val Glu Ser Trp Ile Thr Val Ser Arg Tyr Phe His
 1 5 10 15
 Ser Lys Ser Thr Ser Gln Ile Thr Leu Arg Glu His Ser Pro Lys Thr
 20 25 30
 Lys Phe Ala Asp Asn Tyr Thr Met Thr Ile Arg Lys Arg Asp Arg Phe
 35 40 45
 Met Arg Arg Leu Thr Ala Leu Leu Val Ser Leu Leu Ser Gly Cys
 50 55 60
 Ser Val Leu Gln Gly Thr Pro Glu Pro Ala Pro Val Thr Asp His
 65 70 75 80
 Pro Gln Glu Ile Arg Arg Asn Gln Thr Glu Gly Leu Gln Arg Leu Gly
 85 90 95
 Thr Val Ser Ala Met Val Arg Gly Ser Pro Asp Asp Ala Glu Asp Ala
 100 105 110
 Ile Glu Ala Gln Ala Val Ala Ala Lys Ala Asp Tyr Tyr Val Ile Thr
 115 120 125
 Met Ile Asp Glu Thr Ile Ile Thr Gly Gln Trp Tyr Ala Gln Gly Ile
 130 135 140
 Leu Tyr Arg Lys
 145

<210> 6152
 <211> 111
 <212> PRT
 <213> Enterobacter cloacae

<400> 6152
 Val Tyr Ser Arg Arg Ile Ala Arg Arg Ile Pro Glu Thr Arg Glu Lys
 1 5 10 15
 Glu Leu Thr Met Lys Arg Thr Leu Ala Leu Thr Thr Leu Leu Leu Ser
 20 25 30
 Ala Gly Leu Leu Ser Thr Thr Ala Gln Ser Ala Glu Phe Ala Ser Ala
 35 40 45
 Asp Cys Val Thr Gly Leu Asn Glu Ile Gly Gln Ile Ser Val Asn Asn
 50 55 60
 Ile Thr Gly Ser Pro Gln Asp Val Glu Arg Val Val Ala Leu Lys Ala
 65 70 75 80
 Asp Glu Gln Gly Ala Ser Trp Tyr Arg Ile Val Gln Met Gln Glu Asp
 85 90 95
 His His Val Asn His Trp Arg Val Gln Ala Ile Leu Tyr Ala
 100 105 110

<210> 6153
 <211> 394
 <212> PRT
 <213> Enterobacter cloacae

<220>
 <221> UNSURE
 <222> (366)

<220>

<221>UNSURE

<222>(392)

<400> 6153

Glu Gly Gly Ala Met Glu Gln Thr Trp Arg Trp Tyr Gly Pro Asn Asp
 1 5 10 15
 Pro Val Ser Leu Asp Asp Val Arg Gln Ala Gly Ala Thr Gly Val Val
 20 25 30
 Thr Ala Leu His His Ile Pro Asn Gly Gln Val Trp Pro Val Glu Glu
 35 40 45
 Ile Gln Lys Arg Gln Ala Gln Leu Ala Glu Lys Gly Leu Thr Trp Ser
 50 55 60
 Val Val Glu Ser Ile Pro Val His Glu Asp Ile Lys Thr His Ser Gly
 65 70 75 80
 Glu Cys Asp Thr Trp Ile Ala Asn Tyr Gln Gln Ser Ile Arg Asn Leu
 85 90 95
 Ala Ala Cys Gly Ile Asp Thr Val Cys Tyr Asn Phe Met Pro Ile Leu
 100 105 110
 Asp Trp Thr Arg Thr Asp Leu Glu Tyr Val Met Ala Asp Gly Ser Lys
 115 120 125
 Ala Leu Arg Phe Asp Gln Ile Ala Phe Ala Ala Phe Glu Leu His Ile
 130 135 140
 Leu Lys Arg Pro Gly Ala Glu Ala Asp Tyr Thr Ala Glu Glu Gln Gln
 145 150 155 160
 Gln Ala Leu Ala Trp Phe Asn Ala Ala Ser Glu Ala Asp Ile Glu Lys
 165 170 175
 Leu Val Arg Asn Ile Ile Ala Gly Leu Pro Gly Ala Glu Glu Gly Tyr
 180 185 190
 Thr Leu Asp Gln Phe Arg Ala Arg Leu Ala Glu Tyr Gly Asp Ile Asp
 195 200 205
 Lys Asn Gln Leu Arg Glu Asn Met Ala His Phe Leu Arg Ala Ile Val
 210 215 220
 Pro Val Ala Glu Glu Val Gly Val Arg Leu Ala Val His Pro Asp Asp
 225 230 235 240
 Pro Pro Arg Pro Ile Leu Gly Leu Pro Arg Ile Val Ser Thr Ile Glu
 245 250 255
 Asp Met Gln Trp Leu Lys Glu Thr Val Asp Ser Ile Tyr Asn Gly Phe
 260 265 270
 Thr Met Cys Thr Gly Ser Tyr Gly Val Arg Ala Asp Asn Asp Leu Val
 275 280 285
 Arg Met Ile Glu Thr Phe Gly Asp Arg Ile His Phe Thr His Leu Arg
 290 295 300
 Ala Thr Cys Arg Glu Glu Asn Pro Lys Thr Phe His Glu Ala Ala His
 305 310 315 320
 Leu Gly Gly Asp Val Asn Met Val Ala Val Val Asp Ala Ile Leu Ser
 325 330 335
 Glu Lys Val Arg Arg Lys Gln Ala Gly Asp Val Arg Pro Ile Pro Phe
 340 345 350
 Arg Pro Asp His Gly His Gln Met Leu Asp Asp Leu Arg Xaa Lys Thr
 355 360 365
 Asn Pro Gly Tyr Ser Ala Ile Gly Arg Leu Lys Arg Met Ala Glu Leu
 370 375 380
 Pro Gly Ile Gln Leu Ala Leu Xaa Met Thr
 385 390

<210> 6154

<211> 494

<212> PRT

<213> Enterobacter cloacae

<400> 6154

```

Ser Gly Val Tyr Tyr Met Lys Thr Ile Ala Ser Thr Ala Leu Pro Ala
1      5      10      15
His Val Gln Gln Pro Arg Tyr Asp Arg Glu Gln Leu Arg Ser Arg Ile
20      25      30
Val His Phe Gly Phe Gly Ala Phe His Arg Ala His Gln Ala Leu Leu
35      40      45
Thr Asn Arg Val Leu Asn Ala Arg Gly Gly Asp Trp Gly Ile Cys Glu
50      55      60
Ile Ser Leu Phe Ser Gly Asp Val Leu Met Arg Gln Leu Arg Ala Gln
65      70      75      80
Asp His Leu Phe Thr Val Leu Glu Lys Gly Ala Glu Gly Asn Gln Pro
85      90      95
Ile Ile Ile Gly Ala Val Lys Glu Cys Leu Asn Ala Lys Leu Asp Ser
100      105      110
Leu Ala Ala Ile Ile Glu Lys Phe Cys Glu Pro Gln Val Ala Ile Val
115      120      125
Ser Leu Thr Ile Thr Glu Lys Gly Tyr Cys Ile Asp Pro Ala Thr Gly
130      135      140
Lys Leu Asp Met Gln Asn Ser Arg Ile Leu His Asp Leu Glu His Pro
145      150      155      160
Ser Glu Pro His Ser Ala Pro Gly Ile Leu Val Glu Ala Leu His Arg
165      170      175
Arg Arg Glu Arg Gly Leu Pro Ala Phe Thr Val Leu Ser Cys Asp Asn
180      185      190
Ile Pro Asp Asn Gly His Val Val Lys Asn Ala Val Leu Gly Met Ala
195      200      205
Gly Lys Arg Ser Ala Glu Leu Ala Ala Trp Ile Glu Ala His Val Ser
210      215      220
Phe Pro Gly Thr Met Val Asp Arg Ile Val Pro Ala Ala Thr Asp Ala
225      230      235      240
Ser Leu Ala Glu Ile Thr Gln Glu Leu Gly Val Glu Asp Pro Cys Ala
245      250      255
Ile Ser Cys Glu Pro Phe Ile Gln Trp Val Val Glu Asp Asn Phe Val
260      265      270
Ala Gly Arg Pro Glu Trp Glu Val Ala Gly Val Gln Met Val Glu Asp
275      280      285
Val Leu Pro Trp Glu Gln Met Lys Leu Arg Met Leu Asn Gly Ser His
290      295      300
Ser Phe Leu Ala Tyr Leu Gly Tyr Leu Ala Gly Tyr Ala His Ile Asn
305      310      315      320
Glu Cys Met Gln Asp Asp Ser Phe Arg Glu Ala Ala Arg Arg Leu Met
325      330      335
Leu Asn Glu Gln Ala Pro Thr Leu Arg Ile Thr Asn Val Asp Leu Thr
340      345      350
Ala Tyr Ala Asp Ser Leu Leu Asn Arg Phe Ala Asn Pro Ala Leu Gln
355      360      365
His Arg Thr Trp Gln Ile Ala Met Asp Gly Ser Gln Lys Leu Pro Gln
370      375      380
Arg Met Leu Asp Gly Ile Arg Val His Leu Glu Leu Asn Thr Ala Trp
385      390      395      400
Pro Leu Leu Ala Leu Gly Val Ala Gly Trp Met Arg Tyr Val Ser Gly
405      410      415
Thr Asp Glu Gln Gly Asn Ala Ile Asp Val Arg Asp Pro Leu Ser Asp
420      425      430
Lys Phe Gln Ala Ile Val Ala Thr Ser Ser Asp Ala Glu Arg Val Ser
435      440      445
Ala Leu Leu Thr Leu Asn Glu Ile Phe Gly Asp Asp Leu Pro Gln Asn
450      455      460
Pro Val Phe Val Glu Ala Ile Thr Gly Ala Tyr Gln Arg Leu Val Arg

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465 470 475 480
 Leu Gly Ala His Gln Ala Val Ile Glu Thr Leu Lys Ile
 485 490

<210> 6155
 <211> 342
 <212> PRT
 <213> Enterobacter cloacae

<400> 6155
 Val Val Val Thr Thr Ser Gln Leu Phe Ile Gly Ala His Val Thr Lys
 1 5 10 15
 Thr Asn Leu Ile Thr Gly Phe Leu Gly Ser Gly Lys Thr Thr Ser Ile
 20 25 30
 Leu His Leu Leu Ala Asn Lys Asp Pro Ala Glu Lys Trp Ala Val Leu
 35 40 45
 Val Asn Glu Phe Gly Glu Val Gly Ile Asp Gly Ala Leu Leu Ala Asp
 50 55 60
 Ser Gly Ala Met Val Lys Glu Ile Pro Gly Gly Cys Met Cys Cys Val
 65 70 75 80
 Asn Gly Leu Pro Met Gln Val Gly Leu Asn Thr Leu Leu Arg Gln Gly
 85 90 95
 Lys Pro Asp Arg Leu Pro Ile Glu Pro Thr Gly Met Gly His Pro Lys
 100 105 110
 Gln Ile Leu Asp Leu Leu Thr Ala Pro Val Tyr Glu Pro Trp Leu Glu
 115 120 125
 Leu Arg Ala Thr Leu Cys Leu Leu Asp Pro Arg Gln Leu Leu Asp Glu
 130 135 140
 Lys Thr Ile Asn Asn Asp Asn Phe Arg Asp Gln Leu Ala Ser Ala Asp
 145 150 155 160
 Ile Ile Val Ala Asn Lys Ser Asp Arg Ala Thr Ala Glu Ser Gln Ala
 165 170 175
 Ala Phe Glu Ser Trp Trp Gln Gln Ala Gly Gly Gly Arg Gln Tyr Val
 180 185 190
 Gln Thr Thr Gln Gly Asn Ile Asp Gly Ala Leu Leu Asp Leu Pro Arg
 195 200 205
 Leu Asn Gln Thr Gln Leu Pro Ala Ser Ala Glu His Ser His Ser His
 210 215 220
 Gly Thr Lys Gln Gly Leu Ala Ala Leu Ser Leu Pro Glu His Gln Arg
 225 230 235 240
 Trp Arg Arg Asn Leu Asn Ser Gly Gln Gly His Gln Ala Cys Gly Trp
 245 250 255
 Ile Phe Asp Ala Asp Thr Val Phe Asp Thr Ile Gly Ile Leu Glu Trp
 260 265 270
 Ala Arg Leu Ala Pro Val Glu Arg Val Lys Gly Ile Met Arg Thr Pro
 275 280 285
 Asp Gly Leu Val Arg Ile Asn Arg Gln Gly Glu Asp Phe Phe Ile Glu
 290 295 300
 Thr Gln Asn Val Ala Pro Pro Asp Ser Arg Ile Glu Leu Ile Ser Ala
 305 310 315 320
 Val Asn Thr Asp Trp Asn Ala Leu Gln Ser Ser Leu Leu Lys Leu Arg
 325 330 335
 Leu Ser Leu Gly Gly
 340

<210> 6156
 <211> 245
 <212> PRT
 <213> Enterobacter cloacae

<400> 6156

```

Phe His Thr Leu Leu Lys Thr Met Thr Thr Arg Leu Pro Ala Ile Leu
1      5      10      15
Leu Leu Asn Ala Ala Gly Leu Ala Leu Phe Phe Ser Trp Tyr Ile Pro
20      25      30
Ala Asp His Gly Phe Trp Phe Pro Leu Asp Ser Gly Leu Phe His Phe
35      40      45
Phe Asn Gln Ala Leu Ala Lys Ser Glu Ala Phe Leu Trp Leu Val Ala
50      55      60
Ile Thr Asn Asn Arg Ala Phe Asp Gly Cys Ser Leu Leu Ala Met Gly
65      70      75      80
Cys Leu Met Leu Ser Phe Trp Leu Lys Glu Asp Lys Thr Gly Arg Arg
85      90      95
Arg Ile Leu Ile Ile Gly Leu Val Met Leu Leu Thr Ala Val Ile Ile
100     105     110
Asn Gln Leu Ala Gln His Leu Met Pro Val Lys Arg Ala Ser Pro Ser
115     120     125
Leu Phe Phe Pro Asn Ile Asn Arg Val Ser Glu Leu Leu His Ile Pro
130     135     140
Thr Lys Asp Ala Ser Lys Asp Ser Phe Pro Gly Asp His Gly Met Met
145     150     155     160
Leu Leu Ile Phe Ala Gly Phe Met Leu Arg Tyr Phe Gly Lys Lys Ala
165     170     175
Phe Ala Ile Ala Leu Val Ile Val Val Val Phe Ala Phe Pro Arg Val
180     185     190
Met Ile Gly Ala His Trp Leu Thr Asp Ile Ala Val Gly Ser Leu Thr
195     200     205
Ala Val Leu Ile Gly Leu Pro Trp Val Leu Met Thr Pro Leu Ser Asp
210     215     220
Arg Val Ile Gly Ile Phe Asp Arg Tyr Leu Pro Gly Lys Phe Lys Gln
225     230     235     240
Val Arg Asn Lys
245

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<210> 6157

<211> 123

<212> PRT

<213> Enterobacter cloacae

<400> 6157

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Glu Tyr Ala Arg Asp Gly Gln Ile Val Leu Asn Ile Ala Pro Arg Ala
1      5      10      15
Val Gly Asn Leu Glu Leu Ala Asn Asp Glu Val Arg Phe Asn Ala Arg
20      25      30
Phe Gly Gly Val Pro Arg Gln Val Ser Val Pro Leu Ala Ala Val Leu
35      40      45
Ala Ile Tyr Ala Arg Glu Asn Gly Ala Gly Thr Met Phe Glu Pro Glu
50      55      60
Ala Ala Tyr Asp Glu Glu Val Ala Ser Leu Asn Asp Glu Glu Gly Gly
65      70      75      80
Val Gly Thr Glu Ser Glu Thr Val Met Ser Val Ile Asp Gly Asp Lys
85      90      95
Pro Asp Arg Glu Asp Asp Asn Asp Pro Asp Asp Asp Pro Pro Pro Arg
100     105     110
Gly Gly Arg Pro Ala Leu Arg Val Val Lys
115     120

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<210> 6158

<211> 812

<212> PRT

<213> Enterobacter cloacae

<400> 6158

```

Ile Thr Leu Asn Arg Asp Met Thr Val Cys Lys Lys Ser Arg Leu Ala
1      5      10      15
Leu Cys Val Arg Ala Ile Leu Cys Gly Thr Leu Pro Leu Val Val Leu
20      25      30
Ala Ser Pro Ser Leu Tyr Ala Arg Glu Val Thr Phe Asp Thr Gly Ile
35      40      45
Ile Gln Ser Arg Gly Leu Ser Pro Asp Leu Asn His Tyr Phe Ala Gln
50      55      60
Ala Pro Arg Phe Leu Pro Gly Thr His Ser Val Gln Val Lys Val Asn
65      70      75      80
Gly Lys Asp Arg Gly Thr Ala Ala Ala Arg Phe Asn Glu Asp Gly Glu
85      90      95
Leu Cys Ile Asp Lys Asp Phe Leu Asp Phe Ala Gly Ile Met Pro Val
100     105     110
Pro Leu Lys Ala Gly Glu Ala Cys His Asp Ile Arg Ser Asp Tyr Ala
115     120     125
Gln Ala Val Val Asn Ala Leu Pro Asn Gln Asp Ala Val Glu Leu Tyr
130     135     140
Leu Pro Gln Glu Ala Ile Asn Ser Leu Thr Ser Asn Ile Lys His Phe
145     150     155     160
Gln Gln Gly Gly Thr Ala Gly Leu Leu Asn Tyr Ser Leu Phe Ser Thr
165     170     175
Arg Asn Glu Tyr Gly Asp Ser Asp Asn Ser Arg Tyr Ser Gln Ala Ser
180     185     190
Leu Glu Ala Gly Phe Asn Thr Met Asp Trp Ser Val Arg Ser Arg Tyr
195     200     205
Ile Leu Thr Asp Asp Asp Gly Asp Lys Asn Ala Glu Ser Ile Tyr Thr
210     215     220
Tyr Ala Glu His Val Phe Val Pro Gln Arg Leu Thr Met Gln Val Gly
225     230     235     240
Glu Ile Asn Ala Met Ser Gly Val Leu Ser Gly Val Pro Ile Thr Gly
245     250     255
Val Gln Leu Met Pro Thr Asn Gly Leu Glu Arg Asp Gly Thr Gly Val
260     265     270
Ser Val Ser Gly Ile Ala Arg Ser Ser Gln Ala Arg Val Glu Val Arg
275     280     285
Gln Ser Gly Arg Leu Val Tyr Ser Thr Leu Val Pro Ala Gly Pro Phe
290     295     300
Thr Leu Asp Asp Val Pro Val Val Arg Asn Asn Val Asp Leu Asp Val
305     310     315     320
Thr Val Val Glu Ser Asp Gly Ser Ser Ser His Phe Ile Val Pro Ala
325     330     335
Ser Ala Val Arg Thr Arg Lys Leu Gly Arg Pro Gln Gly Leu Thr Met
340     345     350
Ser Val Gly Gln Val Arg Ser Ile Asp Ser Asp Tyr Ser Asp Pro Leu
355     360     365
Val Ala Asn Val Ser Asp Gly Trp Arg Ile Thr Pro Trp Met Asn Val
370     375     380
Leu Ala Ser Gly Ala Val Ala Glu Lys Tyr Gln Ala Ala Gly Gly Ser
385     390     395     400
Ala Glu Phe Met Leu Ser Asp Ile Trp Gly Ile Thr Thr Thr Ala Ala
405     410     415
Ala Ser Lys Glu Gln Phe Gly Asp Ser Asn Ser Gly Leu Lys Thr Glu
420     425     430
Leu Gln Ser Asp Leu Thr Leu Gly Glu His Val Ser Leu Ser Ala Ser
435     440     445
Ala Thr His Phe Ser Ser Gly Tyr Arg Glu Leu Ala Asp Ala Leu Asp
450     455     460
Asp Glu Phe Gln Pro Asn Asp Asn Thr Tyr Ser Gly Asn Val Ser Phe
465     470     475     480

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Ala Thr Gly Ile Ala Gly Thr Phe Ser Ala Gly Phe Asn Tyr Asn Gln
485 490 495
Ser Ala Asn Tyr Glu Asp Ser Arg Tyr Leu Leu Leu Ser Trp Gly Lys
500 505 510
Thr Phe Lys Tyr Ala Ser Ile Thr Val Asn Trp Gln Ser Ala Val Gly
515 520 525
Asn Thr Asp Asp Glu Gln Asp Asp Asp Met Leu Tyr Val Asn Leu Ser
530 535 540
Ile Pro Leu Gly Gly Ser Gln Ser Leu Ser Ser Tyr Met Arg Lys Gln
545 550 555 560
Gly Asp Arg Thr Thr Tyr Gly Val Ala Asn Ser Gly Ala Ile Gly Asp
565 570 575
Asn Thr Asn Tyr Tyr Ile Ser Ala Asp Arg Asp Asn Asp Asp Asn Glu
580 585 590
Asn Ser Phe Asn Gly Asn Ile Asn Thr Asn Leu His Tyr Thr Gln Leu
595 600 605
Ser Val Gly Gly Gly Ser Ser Gly Ser Asn Gln Arg Asn Tyr Ser Ala
610 615 620
Thr Leu Thr Gly Gly Ile Ala Met His Lys Asp Gly Val Thr Phe Ser
625 630 635 640
Pro Tyr Ala Ile Lys Asp Thr Phe Ala Ile Ala Lys Leu Asn Glu Pro
645 650 655
Lys Ser Gly Val Glu Ile Ser Thr Pro Gln Gly Thr Ile Trp Thr Asp
660 665 670
His Trp Gly Gln Ala Val Val Pro Gly Leu Asn Glu Trp Arg Asn Ser
675 680 685
Arg Ile Glu Ile Asp Ala Asn Lys Leu Pro Pro Ser Met Thr Leu Ala
690 695 700
Asn Gly Ile Lys Tyr Val Ala Ala Gly His Ala Ser Val Ser Glu Val
705 710 715 720
Ser Phe Lys Ile Leu Asn Ser Arg Arg Val Met Leu Arg Val Lys Arg
725 730 735
Ala Asp Gly Thr Pro Leu Ala Lys Gly Leu Ser Ile Val Asp Glu Lys
740 745 750
Gly Asn Tyr Ile Val Thr Ser Val Asp Asp Gly His Val Phe Ile Asn
755 760 765
Asp Ala Asp Gln Leu Lys Gly Leu Tyr Ala Met Asp Asp Asn Asn Asn
770 775 780
Arg Leu Cys Gln Ile His Tyr Thr Leu Ser Asp Lys Lys Asp Asp Glu
785 790 795 800
Ala Phe Tyr Glu Glu Val Asn Gly Val Cys Gln
805 810

<210> 6159

<211> 272

<212> PRT

<213> Enterobacter cloacae

<400> 6159

Tyr Phe Lys Ile Gly Ile Leu Ile Lys Asn Gly Ile Asn Ile Ser Cys
1 5 10 15
Leu Phe Leu Ser Asn Tyr Thr Trp Thr Trp Asn Val Val Leu Trp Ile
20 25 30
Lys Gly Val Ile Ile Met Ser Cys Leu Lys Lys Thr Leu Leu Lys Ser
35 40 45
Val Ile Ala Ala Ala Leu Phe Ser Ala Gln Phe Ser Thr Tyr Ala Ala
50 55 60
Gly Met Val Pro Glu Thr Ser Leu Leu Val Ile Asp Glu Ala Thr His
65 70 75 80
Ser Gly Thr Ile Asn Val Lys Asn Thr Asp Ser Phe Pro Ala Leu Leu
85 90 95

Tyr Thr Asn Val Leu Asp Leu Pro Asp Asp Gln Gly Leu Lys Leu Ile
 100 105 110
 Ser Thr Gln Pro Val Val Arg Leu Glu Pro Gly Gln Thr Gln Gln Leu
 115 120 125
 Arg Phe Ile Leu Gln Asn Lys Glu Pro Leu Glu Ala Glu His Tyr Lys
 130 135 140
 Arg Val Thr Phe Glu Gly Ile Pro Pro Lys Ser Asp Asn Lys Asn Ile
 145 150 155 160
 Lys Ile Gly Phe Asn Leu Arg Gln Asp Leu Pro Val Leu Ile Arg Pro
 165 170 175
 Ala Lys Leu Ala Val Val Thr Asp Ala Trp Lys Tyr Leu Glu Trp Asn
 180 185 190
 Ala Thr Gly Thr Thr Leu Thr Val Lys Asn Pro Ser Lys Tyr Val Val
 195 200 205
 Arg Leu Ala Gln Asn Val Met Thr Gln Pro Ser Gly Thr Ala Gly Thr
 210 215 220
 Leu Pro Lys Thr Tyr Ile Leu Pro Gly Gln Ser Met Thr Ala Thr Leu
 225 230 235 240
 Lys Lys Thr Val Ser Gly Asp Asn Lys Val Lys Phe Phe Pro Ala Ser
 245 250 255
 Arg Tyr Gly Val Glu Val Pro Ser Phe Val Ser Glu Leu Asn Lys
 260 265 270

<210> 6160

<211> 227

<212> PRT

<213> Enterobacter cloacae

<400> 6160

Arg Met Lys Lys Val Leu Ile Ala Thr Ala Leu Ser Leu Cys Val Ala
 1 5 10 15
 Ser Ala Phe Ala Ala Asp Thr Ala Val Leu Gln Val Lys Gly Lys Leu
 20 25 30
 Thr Asn Ala Ala Cys Thr Pro Glu Leu Ser Lys Gly Gly Val Val Asp
 35 40 45
 Tyr Gly Thr Ile His Pro Gly Ser Leu Ser Ala Ser Ala Val Asn Gln
 50 55 60
 Leu Gly Gln Asn Asn Ile Asp Leu Thr Ile Thr Cys Ser Ala Ala Thr
 65 70 75 80
 Lys Val Ser Trp Thr Met Val Asp Asp Arg Ala Glu Thr Asn Ala Gly
 85 90 95
 Leu Thr Val Asn Asn Ala Met Phe Thr Gly Ala Ser Leu Ser Asn Ser
 100 105 110
 Ser Gln Thr Tyr Gly Val Gly Lys Thr Thr Gly Gly Val Asn Ile Gly
 115 120 125
 Ser Tyr Ala Met Phe Val Lys Val Asp Ser Val Thr Ala Asp Gly Ala
 130 135 140
 Thr Val Asp Pro Ile Tyr Thr Gln Asn Gly Asp Thr Ser Lys Trp Thr
 145 150 155 160
 Thr Ser Thr Asn Gly Ser Ser Gln Ala Gln Asn Ile Arg Glu Phe Thr
 165 170 175
 Val Ala Lys Ser Gly Glu Lys Val Pro Leu Ala Phe Leu Ser Ala Thr
 180 185 190
 Phe Pro Leu Val Thr Ser Leu Ala Ile Gln Asp Thr Thr Thr Leu Ala
 195 200 205
 Ile Thr Asp Asp Thr Thr Leu Asp Gly Gln Leu Thr Ile Ser Leu Lys
 210 215 220
 Tyr Leu
 225

<210> 6161

<211> 94
 <212> PRT
 <213> Enterobacter cloacae

<400> 6161
 Gln Met Lys Lys Val Leu Leu Ala Thr Ala Leu Ser Leu Cys Val Ala
 1 5 10 15
 Ser Ala Phe Ala Ala Asp Thr Ala Val Leu Gln Val Lys Gly Lys Leu
 20 25 30
 Thr Asn Ala Ala Cys Thr Pro Gln Leu Ser Asn Gly Gly Val Val Asp
 35 40 45
 Tyr Gly Thr Ile His Leu Gly Glu Leu Ser Ala Thr Ala Val Asn Gln
 50 55 60
 Leu Gly Asp Lys Asp Ile Asn Leu Thr Ile Thr Cys Gly Ala Pro Thr
 65 70 75 80
 Gln Val Gly Trp Val Val Asp Asp Asn Arg Glu Phe Lys
 85 90

<210> 6162
 <211> 76
 <212> PRT
 <213> Enterobacter cloacae

<400> 6162
 Phe Phe Leu Thr Gln Ile Asp Thr Val Leu Val Leu Phe Arg Leu Pro
 1 5 10 15
 Ala Trp Trp Asn Asp Phe Ile Ala Gly Leu Val Leu Leu Gly Val Leu
 20 25 30
 Val Leu Asp Gly Arg Leu Arg Gln Ala Leu Ala Arg His Gln Arg Ala
 35 40 45
 Leu Lys Tyr Ser Arg Phe Gln Pro Gly Asn Lys Gly Gly Lys His Val
 50 55 60
 Thr Pro Phe Pro Lys Arg Lys Lys Glu Val Ala
 65 70 75

<210> 6163
 <211> 326
 <212> PRT
 <213> Enterobacter cloacae

<400> 6163
 Met Arg Leu Asn Trp Glu Ser Ala Leu Leu Ile Leu Leu Val Leu Glu
 1 5 10 15
 Ile Leu Leu Phe Gly Ala Ile Asn Pro Arg Met Leu Asp Ile Asn Met
 20 25 30
 Leu Leu Phe Ser Thr Ser Asp Phe Ile Cys Ile Gly Ile Val Ala Leu
 35 40 45
 Pro Leu Thr Leu Val Ile Ile Ser Gly Gly Ile Asp Ile Ser Leu Gly
 50 55 60
 Ser Thr Ile Gly Leu Cys Ala Ile Ala Leu Gly Val Met Met Gln Ala
 65 70 75 80
 Gly Trp Pro Met Ala Val Ala Ile Pro Leu Thr Leu Leu Leu Gly Leu
 85 90 95
 Leu Cys Gly Leu Val Asn Ala Ala Leu Ile His Tyr Thr Gly Ile Ser
 100 105 110
 Pro Leu Val Ile Thr Leu Gly Thr Leu Tyr Leu Tyr Gly Gly Ala
 115 120 125
 Leu Leu Leu Ser Gly Met Ala Gly Ala Thr Gly Tyr Glu Gly Ile Gly
 130 135 140
 Gly Phe Pro Asp Ser Phe Thr Ala Phe Ala Asn Leu Thr Val Leu Gly
 145 150 155 160

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<210> 6164
<211> 326
<212> PRT
<213> Enterobacter cloacae
```

Gly 1	Glu 5	Gly 10	Gln 15	Arg 20	His 25	Arg 30	Ala 35	Ala 40	Ala 45	Gly 50	Ala 55	Arg 60	Gly 65	Val 70	His 75
Gln 80	Arg 85	Glu 90	His 95	Gln 100	Gln 105	Ile 110	Arg 115	Phe 120	Leu 125	Thr 130	Gly 135	Glu 140	Gln 145	Met 150	Ala 155
Asp 160	Leu 165	Asp 170	Asp 175	Ile 180	Lys 185	Asp 190	Gly 195	Lys 200	Asp 205	Phe 210	Gly 215	Ile 220	Gly 225	Thr 230	Pro 235
Gln 240	Gln 245	Asn 250	Val 255	Pro 260	Tyr 265	Thr 270	Leu 275	Lys 280	Gly 285	Cys 290	Gly 295	Ser 300	Leu 305	Asp 310	Trp 315
Gly 65	Met 70	Gln 75	Ser 80	Arg 85	Leu 90	Ser 95	Arg 100	Ile 105	Phe 110	Asn 115	Pro 120	Gln 125	Ser 130	Asn 135	Arg 140
Thr 145	Val 150	Met 155	Leu 160	Ala 165	Phe 170	Asp 175	His 180	Gly 185	Tyr 190	Phe 195	Gln 200	Gly 205	Pro 210	Thr 215	Thr 220
Gly 225	Leu 230	Glu 235	Arg 240	Ile 245	Asp 250	Leu 255	Ser 260	Ile 265	Ala 270	Pro 275	Leu 280	Phe 285	Gly 290	Glu 295	Thr 300
Asp 305	Val 310	Leu 315	Met 320	Cys 325	Thr 330	Arg 335	Gly 340	Ile 345	Leu 350	Arg 355	Ser 360	Gln 365	Val 370	Pro 375	Ala 380
Ala 385	Thr 390	Asn 395	Lys 400	Pro 405	Val 410	Val 415	Leu 420	Arg 425	Ala 430	Ser 435	Gly 440	Gly 445	Asn 450	Ser 455	Ile 460
Leu 145	Gly 150	Glu 155	Leu 160	Ser 165	Asn 170	Glu 175	Cys 180	Val 185	Ala 190	Val 195	Ala 200	Met 205	Glu 210	Asp 215	Ala 220
Leu 225	Arg 230	Leu 235	Asn 240	Val 245	Cys 250	Ala 255	Val 260	Ala 265	Ala 270	Gln 275	Val 280	Tyr 285	Ile 290	Gly 295	Ser 300
Glu 305	Phe 310	Glu 315	His 320	Gln 325	Ser 330	Ile 335	Asn 340	Asn 345	Val 350	Ile 355	Lys 360	Leu 365	Val 370	Asp 375	Ala 380
Gly 385	Ala 390	Arg 395	Tyr 400	Gly 405	Met 410	Pro 415	Thr 420	Leu 425	Ala 430	Val 435	Thr 440	Gly 445	Val 450	Gly 455	Lys 460
Glu 465	Met 470	Ala 475	Arg 480	Asp 485	Ala 490	Arg 495	Tyr 500	Phe 505	Ser 510	Leu 515	Ala 520	Ser 525	Arg 530	Ile 535	Ala 540
Ala 225	Glu 230	Met 235	Gly 240	Ala 245	Gln 250	Phe 255	Val 260	Lys 265	Thr 270	Tyr 275	Tyr 280	Val 285	Asp 290	Glu 295	Gly 300
Phe 305	Glu 310	Lys 315	Val 320	Thr 325	Ala 330	Ser 335	Cys 340	Pro 345	Val 350	Pro 355	Ile 360	Val 365	Ile 370	Ala 375	Gly 380

Gly Lys Lys Leu Pro Glu His Glu Ala Leu Glu Met Cys Trp Arg Ala
 260 265 270
 Ile Asp Gln Gly Ala Ser Gly Val Asp Met Gly Arg Asn Ile Phe Gln
 275 280 285
 Ser Ser Ala Pro Leu Ala Met Leu Lys Ala Val Lys Lys Val Val His
 290 295 300
 Glu Asn Met Ser Ala Arg Glu Ala Phe Gln Phe Trp Gln Glu Glu Lys
 305 310 315 320
 Gln Gly Glu Ala Lys
 325

<210> 6165

<211> 352

<212> PRT

<213> Enterobacter cloacae

<400> 6165

Val Cys Thr Ala Asn Gly Cys Asp Leu Ser Ser Glu Asn Tyr Pro Glu
 1 5 10 15
 Arg Lys Met Lys Thr Lys Leu Leu Val Leu Ala Met Ala Leu Ser Phe
 20 25 30
 Ala Ser Ala Gln Ala Ala Asp Arg Ile Ala Phe Ile Pro Lys Leu Val
 35 40 45
 Gly Val Gly Phe Phe Thr Ser Gly Gly Asn Gly Ala Lys Glu Ala Gly
 50 55 60
 Lys Val Leu Gly Val Asp Val Thr Tyr Asp Gly Pro Thr Glu Pro Ser
 65 70 75 80
 Val Ser Gly Gln Val Gln Leu Ile Asn Asn Phe Val Asn Gln Gly Tyr
 85 90 95
 Asn Ala Ile Ile Val Ser Ala Val Ser Pro Asp Gly Leu Cys Pro Ala
 100 105 110
 Leu Lys Arg Ala Met Gln Arg Gly Val Lys Val Leu Thr Trp Asp Ser
 115 120 125
 Asp Thr Lys Pro Glu Cys Arg Ser Ile Tyr Ile Asn Gln Gly Thr Pro
 130 135 140
 Glu Gln Leu Gly Gly Leu Leu Val Glu Met Ala Gly Lys Gln Val Thr
 145 150 155 160
 Lys Pro Asn Ala Lys Val Ala Phe Phe Tyr Ser Ser Pro Thr Val Thr
 165 170 175
 Asp Gln Asn Gln Trp Val Lys Glu Ala Lys Ala Lys Ile Glu Lys Asp
 180 185 190
 His Pro Gln Trp Gln Val Val Thr Thr Gln Phe Gly Tyr Asn Asp Ala
 195 200 205
 Thr Lys Ser Leu Gln Thr Ala Glu Gly Ile Leu Lys Ala Tyr Ser Asp
 210 215 220
 Leu Asp Ala Ile Ile Ala Pro Asp Ala Asn Ala Leu Pro Ala Ala Ala
 225 230 235 240
 Gln Ala Ala Glu Asn Leu Lys Arg Glu Gly Val Ala Ile Val Gly Phe
 245 250 255
 Ser Thr Pro Asn Val Met Arg Pro Tyr Val Glu Arg Gly Thr Val Lys
 260 265 270
 Ala Phe Gly Leu Trp Asp Val Val Gln Gln Gly Lys Ile Ala Val Asn
 275 280 285
 Val Ala Asp Arg Leu Leu Lys Lys Gly Asp Leu Asn Val Gly Asp Ser
 290 295 300
 Val Asp Val Lys Asn Ile Gly Thr Leu Lys Val Glu Pro Asn Ser Val
 305 310 315 320
 Gln Gly Tyr Gln Tyr Glu Ala Lys Gly Asn Gly Ile Val Leu Leu Pro
 325 330 335
 Glu Arg Val Val Phe Thr Lys Glu Asn Ile Ser Lys Tyr Asp Phe
 340 345 350

<210> 6166
 <211> 181
 <212> PRT
 <213> Enterobacter cloacae

<400> 6166
 Lys Ser Asp Arg Gln Leu Pro Gly Ala Asp Arg Tyr Arg Gly Gly Gln
 1 5 10 15
 Lys Ala Ala Gly Ala Arg Gly Ala Gly Asp Val Leu Ala Arg Asp Arg
 20 25 30
 Pro Gly Arg Val Arg Arg Gly His Gly Ala Gln His Leu Pro Val Gln
 35 40 45
 Arg Ala Ala Arg His Ala Glu Gly Gly Glu Glu Ser Gly Ser Arg Glu
 50 55 60
 His Glu Arg Pro Gly Gly Val Pro Val Leu Ala Gly Arg Glu Thr Gly
 65 70 75 80
 Arg Ser Lys Met Asn Val Thr Leu Val Glu Ile Asn Ile Lys Pro Glu
 85 90 95
 Arg Val Asp Glu Phe Leu Glu Val Phe Arg Ala Asn His Glu Gly Ala
 100 105 110
 Ile Lys Glu Pro Gly Asn Leu Arg Phe Asp Val Leu Gln Asp Pro Arg
 115 120 125
 Val Lys Thr Arg Phe Phe Ile Tyr Glu Ala Tyr Lys Asp Glu Lys Ala
 130 135 140
 Val Leu Ala His Lys Gln Thr Pro His Tyr Leu Ala Cys Val Asp Lys
 145 150 155 160
 Leu Glu Glu Leu Met Ser Glu Pro Arg Lys Arg Ser Phe Val Gly
 165 170 175
 Leu Leu Pro Glu
 180

<210> 6167
 <211> 446
 <212> PRT
 <213> Enterobacter cloacae

<400> 6167
 Ile Leu Pro Asn Glu Arg Asn Gly Leu Leu Tyr Thr Pro Gly Ser Ile
 1 5 10 15
 His Trp Arg His Asp Ile Met Ala Asn Thr Ile Thr Ala Asp Asp Ile
 20 25 30
 Arg Glu His Phe Ser Gln Ala Met Ser Ala Met Tyr Gln Gln Glu Val
 35 40 45
 Pro Gln Tyr Gly Thr Leu Leu Glu Leu Val Ala Asp Val Asn Leu Ala
 50 55 60
 Val Leu Glu Asn Asn Pro Leu Leu His Glu Gln Leu Ala Asn Ala Asp
 65 70 75 80
 Glu Leu Ala Arg Leu Asn Val Glu Arg His Gly Ala Ile Arg Val Gly
 85 90 95
 Thr Ala Gln Glu Leu Ser Thr Leu Arg Arg Ile Phe Ala Ile Met Gly
 100 105 110
 Met Tyr Pro Val Ser Tyr Tyr Asp Leu Ser Gln Ala Gly Val Pro Val
 115 120 125
 His Ser Thr Ala Phe Arg Pro Thr Asp Asp Ala Ala Leu Cys Arg Asn
 130 135 140
 Pro Phe Arg Ile Phe Thr Ser Leu Leu Arg Leu Glu Leu Ile Glu Asn
 145 150 155 160
 Val Ala Leu Arg Glu Arg Ala Ala Glu Ile Leu Ser Arg Arg Asn Ile
 165 170 175
 Phe Thr Pro Arg Cys Leu Glu Leu Ile Asp Leu His Asp Ala Gln Gly

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      180      185      190
His Phe Thr Glu Ala Gln Ala Arg Glu Phe Val Gln Glu Ala Leu Glu
      195      200      205
Thr Phe Arg Trp His Arg His Ala Thr Val Asp Gln Glu Thr Tyr Leu
      210      215      220
Ala Leu Ser Asn Glu His Arg Leu Ile Ala Asp Val Val Cys Phe Pro
      225      230      235      240
Gly Cys His Ile Asn His Leu Thr Pro Arg Thr Leu Asp Ile Asp Arg
      245      250      255
Val Gln Glu Leu Met Pro Lys Tyr Gly Ile Glu Pro Lys Ile Leu Ile
      260      265      270
Glu Gly Pro Pro Arg Arg Glu Val Pro Ile Leu Leu Arg Gln Thr Ser
      275      280      285
Phe Lys Ala Leu Glu Glu Pro Val Leu Phe Ala Gly Glu His Lys Gly
      290      295      300
Thr His Thr Ala Arg Phe Gly Glu Ile Glu Gln Arg Gly Val Ala Leu
      305      310      315      320
Thr Pro Lys Gly Arg Glu Leu Tyr Asp Ser Leu Leu Asn Gln Ala Gly
      325      330      335
Thr Gly Lys Asp Asn Leu Thr His Gln Leu His Leu Arg Glu Ile Phe
      340      345      350
Ser Ala Phe Pro Asp Ser Glu Met Phe Leu Arg Arg Gln Gly Leu Ala
      355      360      365
Tyr Phe Arg Tyr Arg Leu Thr Pro Thr Gly Glu Ala His Arg His Ala
      370      375      380
Phe Arg Pro Gly Val Asp Pro Gln Pro Leu Ile Glu Arg Gly Trp Val
      385      390      395      400
Val Ala Gln Pro Ile Thr Tyr Glu Asp Phe Leu Pro Val Ser Ala Ala
      405      410      415
Gly Ile Phe Gln Ser Asn Leu Gly Tyr Glu Thr Gln Ala Arg Ile His
      420      425      430
Gly Asn Ala Ser Arg Asn Ala Phe Gln Ala Ala Pro Leu Pro
      435      440      445

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<210> 6168

<211> 320

<212> PRT

<213> Enterobacter cloacae

<400> 6168

```

Leu Val Thr Arg Val Ala Leu Phe Leu Thr Ser Pro Met Glu Lys Asn
1      5      10      15
Gly Leu Phe Ser Gln Arg Ile Arg Leu Arg His Leu His Thr Phe Val
      20      25      30
Ala Val Ala Gln Gln Gly Thr Leu Gly Arg Ala Ala Glu Thr Leu Asn
      35      40      45
Leu Ser Gln Pro Ala Leu Ser Lys Thr Leu Asn Glu Leu Glu Gln Leu
      50      55      60
Thr Gly Thr Arg Leu Phe Asp Arg Gly Arg Leu Gly Ala Gln Leu Thr
      65      70      75      80
Leu Val Gly Glu Gln Phe Leu Thr His Ala Val Lys Val Leu Asp Ala
      85      90      95
Leu Asn Thr Ala Gly Gln Ala Leu Asn Arg Lys Glu Glu Pro Ala Ser
      100      105      110
Asp Ile Val Arg Val Gly Ala Leu Pro Thr Ala Ala Leu Gly Ile Leu
      115      120      125
Pro Ala Ala Ile Gly Gln Phe His Arg Gln Gln Lys His Ala Thr Leu
      130      135      140
Gln Val Ala Thr Met Asn Asn Thr Met Leu Leu Ala Gly Leu Lys Ser
      145      150      155      160
Gly Glu Leu Asp Leu Gly Ile Gly Arg Met Ser Asp Pro Glu Leu Met

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<210> 6169
<211> 346
<212> PRT
<213> Enterobacter cloacae
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Ala	Asn	Gln	Val	Val	Met	Lys	Lys	Met	Leu	Arg	Phe	Val	Leu	Leu	Leu
1				5					10					15	
Ile	Val	Ala	Leu	Gly	Ile	Ala	Gly	Gly	Ala	Gly	Val	Trp	Lys	Val	Arg
			20					25					30		
Gln	Leu	Ala	Glu	Ser	Gln	Ile	Leu	Ile	Lys	Asp	Glu	Thr	Ile	Phe	Thr
		35					40					45			
Leu	Lys	Ala	Gly	Thr	Gly	Arg	Gln	Ala	Leu	Gly	Gln	Gln	Leu	Tyr	Asp
	50					55					60				
Asp	Lys	Ile	Ile	Asn	Arg	Pro	Arg	Val	Phe	Gln	Trp	Leu	Leu	Arg	Ile
65					70					75					80
Glu	Pro	Asp	Leu	Ser	His	Phe	Lys	Ala	Gly	Thr	Tyr	Arg	Phe	Thr	Pro
				85					90					95	
Gly	Met	Thr	Val	Arg	Glu	Met	Leu	Gln	Leu	Leu	Glu	Ser	Gly	Lys	Glu
			100					105					110		
Ala	Gln	Phe	Pro	Leu	Arg	Phe	Val	Glu	Gly	Met	Arg	Leu	Ser	Asp	Tyr
		115					120					125			
Leu	Arg	Gln	Leu	Arg	Asp	Ala	Pro	Tyr	Ile	Lys	His	Thr	Leu	Lys	Asp
	130					135					140				
Asp	Arg	Tyr	Gln	Thr	Val	Ala	Asp	Ala	Leu	Lys	Phe	Glu	His	Pro	Glu
145					150					155					160
Trp	Val	Glu	Gly	Trp	Phe	Trp	Pro	Asp	Thr	Trp	Met	Tyr	Thr	Ala	Gly
			165						170					175	
Thr	Thr	Asp	Val	Ala	Ile	Leu	Lys	Arg	Ala	His	Asn	Lys	Met	Val	Ala
		180						185					190		
Ala	Val	Asp	Ala	Ala	Trp	Lys	Gly	Arg	Ala	Glu	Gly	Leu	Pro	Tyr	Lys
		195					200					205			
Asp	Gln	Asn	Gln	Phe	Met	Thr	Met	Ala	Ser	Ile	Ile	Glu	Lys	Glu	Thr
	210					215					220				
Ala	Val	Ala	Ala	Glu	Arg	Asp	Gln	Val	Ala	Ser	Val	Phe	Ile	Asn	Arg
225					230					235					240
Leu	Arg	Ile	Gly	Met	Arg	Leu	Gln	Thr	Asp	Pro	Thr	Val	Ile	Tyr	Gly
			245						250					255	
Met	Gly	Glu	Asn	Tyr	Asn	Gly	Arg	Ile	Ser	Arg	Lys	Asp	Leu	Glu	Thr
			260					265					270		
Pro	Thr	Ala	Tyr	Asn	Thr	Tyr	Val	Ile	Ser	Gly	Leu	Pro	Pro	Gly	Pro

275 280 285
 Ile Ala Thr Pro Ser Glu Ala Ser Leu Lys Ala Ala Ala His Pro Ala
 290 295 300
 Lys Thr Pro Tyr Leu Tyr Phe Val Ala Asp Gly Lys Gly Gly His Thr
 305 310 315 320
 Phe Asn Thr Asn Leu Ala Ser His Asn Arg Ser Val Gln Asp Tyr Leu
 325 330 335
 Lys Ala Leu Lys Glu Lys Asn Ala Gln
 340 345

<210> 6170

<211> 253

<212> PRT

<213> Enterobacter cloacae

<400> 6170

Tyr Ser Ala Asp Cys Tyr Ala Val Ala Thr Gly Ala Ala Gly Met Lys
 1 5 10 15
 Trp Tyr Pro Trp Leu Arg Pro His Phe Glu Gln Leu Ile Gly Ser Tyr
 20 25 30
 Gln Val Gly Arg Gly His His Ala Leu Leu Ile Gln Ala Leu Pro Gly
 35 40 45
 Met Gly Asp Asp Ala Leu Ile Tyr Ala Ile Thr Arg Phe Leu Met Cys
 50 55 60
 Gln Gln Pro Glu Gly His Lys Ser Cys Gly Lys Cys Arg Gly Cys Gln
 65 70 75 80
 Leu Met Gln Ala Gly Thr His Pro Asp Tyr Tyr Thr Leu Glu Pro Glu
 85 90 95
 Lys Gly Lys Asn Thr Leu Gly Ile Asp Ala Val Arg Glu Val Ser Glu
 100 105 110
 Lys Leu Tyr Glu Tyr Ala Arg Leu Gly Gly Ala Lys Val Val Trp Leu
 115 120 125
 Lys Asp Ala Ala Leu Leu Thr Glu Ala Ala Ala Asn Ala Leu Leu Lys
 130 135 140
 Thr Leu Glu Glu Pro Pro Glu Asn Thr Trp Phe Phe Leu Ser Cys Arg
 145 150 155 160
 Glu Pro Glu Arg Leu Leu Ala Thr Leu Arg Ser Arg Cys Arg Leu His
 165 170 175
 His Leu Ala Val Pro Gln Glu Ser Trp Ser Leu Ala Trp Leu Glu Arg
 180 185 190
 Glu Val Thr Val Ser Gln Asp Ala Ala Arg Ser Ala Leu Arg Leu Cys
 195 200 205
 Ser Gly Ala Pro Ala Ala Ala Leu Ala Leu Leu Gln Pro Glu Val Trp
 210 215 220
 Ser Gln Arg Glu Thr Leu Cys Arg Ala Val Glu Ser Ala Leu Glu Ser
 225 230 235 240
 Ser Pro Arg Glu Leu Asp Arg Ile Pro Ala Tyr Ala His
 245 250

<210> 6171

<211> 433

<212> PRT

<213> Enterobacter cloacae

<400> 6171

Val Leu Ser Phe Val Val Pro Arg Ile Ser Phe Phe Ile Pro Pro Trp
 1 5 10 15
 Arg Thr Ser Val Ser Lys Arg Arg Val Val Val Thr Gly Leu Gly Met
 20 25 30
 Leu Ser Pro Val Gly Asn Thr Val Glu Ser Thr Trp Lys Ala Leu Leu
 35 40 45

Ala Gly Gln Ser Gly Ile Ser Leu Ile Asp His Phe Asp Thr Ser Ala
 50 55 60
 Tyr Ala Thr Lys Phe Ala Gly Leu Val Lys Asp Phe Asn Cys Glu Glu
 65 70 75 80
 Ile Ile Ser Arg Lys Glu Gln Arg Lys Met Asp Ala Phe Ile Gln Tyr
 85 90 95
 Gly Ile Val Ala Gly Val Gln Ala Met Gln Asp Ser Gly Leu Glu Ile
 100 105 110
 Thr Glu Glu Asn Ala Thr Arg Ile Gly Ala Ala Ile Gly Ser Gly Ile
 115 120 125
 Gly Gly Leu Gly Leu Ile Glu Asn His Thr Ser Leu Met Asn Gly
 130 135 140
 Gly Pro Arg Lys Ile Ser Pro Phe Phe Val Pro Ser Thr Ile Val Asn
 145 150 155 160
 Met Val Ala Gly His Leu Thr Ile Met Phe Gly Leu Arg Gly Pro Ser
 165 170 175
 Ile Ser Ile Ala Thr Ala Cys Thr Ser Gly Val His Asn Ile Gly Gln
 180 185 190
 Ala Ala Arg Ile Ile Ala Tyr Gly Asp Ala Asp Ala Met Val Ala Gly
 195 200 205
 Gly Ala Glu Lys Ala Ser Thr Pro Leu Gly Val Gly Gly Phe Gly Ala
 210 215 220
 Ala Arg Ala Leu Ser Thr Arg Asn Asp Asn Pro Gln Ala Ala Ser Arg
 225 230 235 240
 Pro Trp Asp Lys Asp Arg Asp Gly Phe Val Leu Gly Asp Gly Ala Gly
 245 250 255
 Met Ile Val Leu Glu Glu Tyr Glu His Ala Lys Lys Arg Gly Ala Lys
 260 265 270
 Ile Tyr Ala Glu Val Val Gly Phe Gly Met Ser Ser Asp Ala Tyr His
 275 280 285
 Met Thr Ser Pro Pro Glu Asn Gly Ala Gly Ala Leu Ala Met Glu
 290 295 300
 Asn Ala Ile Arg Asp Ala Gly Ile Thr Pro Ala Gln Ile Gly Tyr Val
 305 310 315 320
 Asn Ala His Gly Thr Ser Thr Pro Ala Gly Asp Lys Ala Glu Ala Gln
 325 330 335
 Ala Val Lys Ser Ile Phe Gly Glu Ser Ala Ser Arg Val Leu Val Ser
 340 345 350
 Ser Thr Lys Ser Met Thr Gly His Leu Leu Gly Ala Ala Gly Ala Val
 355 360 365
 Lys Ser Ile Tyr Ser Ile Leu Ala Leu Arg Asp Gln Ala Val Pro Pro
 370 375 380
 Thr Ile Asn Leu Asp Asn Pro Asp Glu Gly Cys Asp Leu Asp Phe Val
 385 390 395 400
 Pro His Glu Ala Arg Gln Val Ser Gly Met Glu Tyr Thr Leu Cys Asn
 405 410 415
 Ser Phe Gly Phe Gly Gly Thr Asn Gly Ser Leu Ile Phe Lys Lys Val
 420 425 430

<210> 6172

<211> 273

<212> PRT

<213> Enterobacter cloacae

<400> 6172

Gly Ala Thr Met Phe Leu Ile Asn Gly Leu Glu Gln Asp Thr Leu Pro
 1 5 10 15
 Ala Ser Asp Arg Ala Thr Gln Phe Gly Asp Gly Cys Phe Thr Thr Ala
 20 25 30

```

Arg Ile Leu Asp Gly Asp Val Cys Leu Leu Gly Ala His Ile Leu Arg
   35                               40                               45
Leu Gln Lys Ala Cys Glu Thr Leu Leu Ile Pro Phe Ser Gln Trp Asp
   50                               55                               60
Ile Leu Glu Ser Glu Met Arg Arg Leu Ala Ser Glu Lys Ala Ser Gly
  65                               70                               75                               80
Val Leu Lys Val Ile Ile Ser Arg Gly Ser Gly Gly Arg Gly Tyr Ser
                               85                               90                               95
Gly Ser Ala Cys Leu His Pro Thr Arg Ile Leu Ser Val Ser Asp Tyr
                               100                              105                              110
Pro Ser His Tyr Ala His Trp Arg Glu Glu Gly Val Ala Leu Ala Leu
                               115                              120                              125
Ser Pro Val Arg Leu Gly Arg Asn Pro Met Leu Ala Gly Ile Lys His
                               130                              135                              140
Leu Asn Arg Leu Glu Gln Val Leu Ile Arg Thr His Leu Glu Gln Thr
 145                               150                               155                               160
Glu Ala Gly Glu Ala Leu Val Leu Asp Ser Glu Gly Tyr Ile Thr Glu
                               165                               170                               175
Cys Cys Ala Ala Asn Leu Leu Trp Arg Lys Gly Ser Glu Val Phe Thr
                               180                              185                              190
Pro Ser Leu Glu Gln Ala Gly Val Asn Gly Ile Met Arg Gln Phe Cys
                               195                              200                              205
Met His Leu Leu Ala Arg Ala Gly Phe Arg Val Val Glu Val Asn Ala
 210                               215                               220
Lys Glu Glu Ala Leu Leu Ala Ala Asp Glu Val Val Ile Cys Asn Ala
 225                               230                               235                               240
Leu Met Pro Val Val Pro Val Arg Ala Tyr Gly Arg Lys Cys Trp Ser
                               245                               250                               255
Ser Arg Glu Leu Phe Gln Phe Leu Ala Pro Leu Cys Glu Gln Thr Arg
                               260                               265                               270

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<210> 6173

<211> 220

<212> PRT

<213> Enterobacter cloacae

<400> 6173

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Arg His Leu Arg Lys Lys Met Arg Ser Lys Tyr Ile Val Ile Glu Gly
 1                               5                               10                               15
Leu Glu Gly Ala Gly Lys Thr Thr Ala Arg Asn Val Val Val Asp Thr
                               20                               25                               30
Leu Thr Ser Leu Gly Val Ala Asp Met Val Phe Thr Arg Glu Pro Gly
                               35                               40                               45
Gly Thr Gln Leu Ala Glu Lys Leu Arg Ser Leu Val Leu Asp Ile Lys
 50                               55                               60
Ser Val Gly Asp Glu Val Ile Thr Asp Lys Ala Glu Val Leu Met Phe
 65                               70                               75                               80
Tyr Ala Ala Arg Val Gln Leu Val Glu Thr Val Ile Lys Pro Ala Leu
                               85                               90                               95
Ala Glu Gly Lys Trp Val Ile Gly Asp Arg His Asp Leu Ser Thr Gln
                               100                              105                              110
Ala Tyr Gln Gly Gly Gly Arg Gly Ile Asp Gln Thr Met Leu Ala Thr
                               115                              120                              125
Leu Arg Asn Ala Val Leu Gly Asp Phe Arg Pro Asp Leu Thr Leu Tyr
 130                               135                               140
Leu Asp Val Thr Pro Glu Val Gly Leu Lys Arg Ala Arg Ala Arg Gly
 145                               150                               155                               160
Glu Leu Asp Arg Ile Glu Gln Glu Ser Phe Asp Phe Phe Asn Arg Thr
                               165                               170                               175

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Arg Ala Arg Tyr Leu Glu Leu Ala Gly Gln Asp Lys Thr Ile Arg Thr
 180 185 190
 Ile Asp Ala Thr Gln Ser Leu Glu Asp Val Thr Arg Asp Ile Gln Gln
 195 200 205
 Thr Val Thr Gln Trp Leu Gln Glu Gln Gln Ala
 210 215 220

<210> 6174

<211> 336

<212> PRT

<213> Enterobacter cloacae

<400> 6174

Leu Val Glu Tyr Met Thr Ile Lys Val Gly Ile Asn Gly Phe Gly Arg
 1 5 10 15
 Ile Gly Arg Ile Val Phe Arg Ala Ala Gln Lys Arg Ser Asp Ile Glu
 20 25 30
 Ile Val Gly Ile Asn Asp Leu Leu Asp Ala Glu Tyr Met Ala Tyr Met
 35 40 45
 Leu Lys Tyr Asp Ser Thr His Gly Arg Phe Asp Gly Thr Val Glu Val
 50 55 60
 Lys Asp Gly His Leu Val Val Asn Gly Lys Thr Ile Arg Val Thr Ala
 65 70 75 80
 Glu Lys Asp Pro Ala Asn Leu Lys Trp Asn Glu Ile Gly Val Asp Val
 85 90 95
 Val Ala Glu Ala Thr Gly Ile Phe Leu Thr Asp Glu Thr Ala Arg Lys
 100 105 110
 His Ile Thr Ala Gly Ala Lys Lys Val Val Leu Thr Gly Pro Ser Lys
 115 120 125
 Asp Asn Thr Pro Met Phe Val Arg Gly Ala Asn Phe Glu Thr Tyr Ala
 130 135 140
 Gly Gln Asp Ile Val Ser Asn Ala Ser Cys Thr Thr Asn Cys Leu Ala
 145 150 155 160
 Pro Leu Ala Lys Val Ile Asn Asp Asn Phe Gly Ile Ile Glu Gly Leu
 165 170 175
 Met Thr Thr Val His Ala Thr Thr Ala Thr Gln Lys Thr Val Asp Gly
 180 185 190
 Pro Ser His Lys Asp Trp Arg Gly Arg Gly Ala Ala His Asn Ile
 195 200 205
 Ile Pro Ser Ser Thr Gly Ala Ala Lys Ala Val Gly Lys Val Leu Pro
 210 215 220
 Glu Leu Asn Gly Lys Leu Thr Gly Met Ala Phe Arg Val Pro Thr Pro
 225 230 235 240
 Asn Val Ser Val Val Asp Leu Thr Val Arg Leu Glu Lys Ala Ala Ser
 245 250 255
 Tyr Glu Glu Ile Lys Lys Ala Ile Lys Ala Ala Ser Glu Gly Pro Met
 260 265 270
 Lys Gly Val Leu Gly Tyr Thr Glu His Asp Val Val Ser Thr Asp Phe
 275 280 285
 Asn Gly Glu Val Cys Thr Ser Val Phe Asp Ala Lys Ala Gly Ile Ala
 290 295 300
 Leu Asn Asp Asn Phe Val Lys Leu Val Ser Trp Tyr Asp Asn Glu Thr
 305 310 315 320
 Gly Tyr Ser Asn Lys Val Leu Asp Leu Ile Ala His Ile Ser Lys
 325 330 335

<210> 6175

<211> 300

<212> PRT

<213> Enterobacter cloacae

<400> 6175

Thr Glu Asp Cys Leu Met Ile Asn Lys Ile Phe Ala Leu Pro Val Val
 1 5 10 15
 Glu Gln Leu Thr Pro Val Leu Ser Arg Arg Gln Ile Asp Gly Ala Asp
 20 25 30
 Ile Ile Val Val Asp His Pro Arg Val Lys Ala Ser Val Ala Leu Asn
 35 40 45
 Gly Ala His Leu Leu Ser Trp Lys Pro Glu Gly Glu Glu Glu Gly Leu
 50 55 60
 Trp Leu Ser Glu Ala Thr Ser Phe Lys Arg Gly Ala Ala Ile Arg Gly
 65 70 75 80
 Gly Val Pro Ile Cys Trp Pro Trp Phe Gly Pro Ser Ala Gln Gln Gly
 85 90 95
 Leu Pro Ser His Gly Phe Ala Arg Asn Gln Gln Trp Thr Leu Lys Ala
 100 105 110
 His Asn Glu Asp Glu Asn Gly Ala Val Leu Thr Phe Glu Leu Gln Ala
 115 120 125
 Asn Asp Glu Thr Arg Ala Leu Trp Pro His Glu Phe Thr Leu Tyr Ala
 130 135 140
 Arg Phe Lys Leu Gly Lys Thr Cys Glu Ile Glu Leu Glu Ala His Gly
 145 150 155 160
 Glu Phe Glu Thr Thr Ser Ala Leu His Thr Tyr Phe Asn Val Gly Asp
 165 170 175
 Ile Gln Ala Val Lys Val Ser Gly Leu Gly Asp Thr Phe Ile Asp Lys
 180 185 190
 Val Asp Asn Ala Lys Glu Gly Lys Leu Asp Asp Gly Val Gln Thr Phe
 195 200 205
 Pro Asp Arg Thr Asp Arg Val Tyr Leu His Pro Glu Ala Cys Ser Val
 210 215 220
 Ile His Asp Ser Ala Leu Asn Arg Gly Ile Asp Val Val His His His
 225 230 235 240
 His Ser Asn Val Val Gly Trp Asn Pro Gly Pro Ala Leu Ser Val Ser
 245 250 255
 Met Ala Asp Ile Pro Asp Asp Gly Tyr Lys Thr Phe Val Cys Val Glu
 260 265 270
 Thr Ala Cys Val Thr Ala Pro Gln Lys Thr Ser Glu Glu Lys Pro Ser
 275 280 285
 Arg Leu Gly Gln Thr Ile Lys Ile Val Lys Arg
 290 295 300

<210> 6176

<211> 525

<212> PRT

<213> Enterobacter cloacae

<220>

<221> UNSURE

<222> (525)

<400> 6176

Lys Thr Lys Gly Arg His Ala Met Asn Ile Phe Asp His Tyr Arg Gln
 1 5 10 15
 Arg Tyr Glu Ala Ala Lys Asp Glu Glu Phe Thr Leu Gln Glu Phe Leu
 20 25 30
 Thr Ile Cys Arg Gln Asp Arg Ser Ala Tyr Ala Asn Ala Ala Glu Arg
 35 40 45
 Leu Leu Met Ala Ile Gly Glu Pro Asn Met Val Asp Thr Ala Leu Glu
 50 55 60
 Pro Arg Leu Ser Arg Leu Phe Ser Asn Arg Val Val Ala Arg Tyr Pro
 65 70 75 80
 Ala Phe Glu Glu Phe Tyr Gly Met Glu Asp Ala Ile Glu Gln Ile Val

				85					90					95			
Ser	Tyr	Leu	Lys	His	Ala	Ala	Gln	Gly	Leu	Glu	Glu	Lys	Lys	Gln	Ile		
			100					105					110				
Leu	Tyr	Leu	Leu	Gly	Pro	Val	Gly	Gly	Gly	Lys	Ser	Ser	Leu	Ala	Glu		
		115					120						125				
Arg	Leu	Lys	Ala	Leu	Met	Gln	Arg	Val	Pro	Ile	Tyr	Val	Leu	Ser	Ala		
	130					135					140						
Asn	Gly	Glu	Arg	Ser	Pro	Val	Asn	Asp	His	Pro	Leu	Cys	Leu	Phe	Asn		
145					150				155						160		
Pro	Gln	Glu	Asp	Ala	Gln	Ile	Leu	Glu	Lys	Glu	Phe	Gly	Ile	Pro	His		
			165					170						175			
Arg	Tyr	Leu	Gly	Thr	Ile	Met	Ser	Pro	Trp	Ala	Ala	Lys	Arg	Leu	His		
		180						185					190				
Glu	Phe	Gly	Gly	Asp	Ile	Thr	Lys	Phe	Arg	Val	Val	Lys	Val	Trp	Pro		
	195						200					205					
Ser	Ile	Leu	Glu	Gln	Ile	Ala	Ile	Ala	Lys	Thr	Glu	Pro	Gly	Asp	Glu		
	210					215					220						
Asn	Asn	Gln	Asp	Ile	Ser	Ala	Leu	Val	Gly	Lys	Val	Asp	Ile	Arg	Lys		
225					230					235					240		
Leu	Glu	His	His	Ala	Gln	Asn	Asp	Pro	Asp	Ala	Tyr	Gly	Tyr	Ser	Gly		
			245					250					255				
Ala	Leu	Cys	Arg	Ala	Asn	Gln	Gly	Ile	Met	Glu	Phe	Val	Glu	Met	Phe		
		260					265						270				
Lys	Ala	Pro	Ile	Lys	Val	Leu	His	Pro	Leu	Leu	Thr	Ala	Thr	Gln	Glu		
	275						280					285					
Gly	Asn	Tyr	Asn	Gly	Thr	Glu	Gly	Ile	Ser	Ala	Leu	Pro	Phe	Asn	Gly		
	290					295					300						
Ile	Ile	Leu	Ala	His	Ser	Asn	Glu	Ser	Glu	Trp	Val	Thr	Phe	Arg	Asn		
305					310					315					320		
Asn	Lys	Asn	Asn	Glu	Ala	Phe	Leu	Asp	Arg	Val	Tyr	Ile	Val	Lys	Val		
			325						330					335			
Pro	Tyr	Cys	Leu	Arg	Ile	Ser	Glu	Glu	Ile	Lys	Ile	Tyr	Glu	Lys	Leu		
		340						345					350				
Leu	Asn	His	Ser	Glu	Leu	Val	His	Ala	Pro	Cys	Ala	Pro	Gly	Thr	Leu		
	355						360					365					
Glu	Thr	Leu	Ser	Arg	Phe	Ser	Ile	Leu	Ser	Arg	Leu	Lys	Glu	Pro	Glu		
	370					375					380						
Asn	Ser	Ser	Ile	Tyr	Ser	Lys	Met	Arg	Val	Tyr	Asp	Gly	Glu	Ser	Leu		
385					390					395					400		
Lys	Asp	Thr	Asp	Pro	Lys	Ala	Lys	Ser	Tyr	Gln	Glu	Tyr	Arg	Asp	Tyr		
			405						410					415			
Ala	Gly	Val	Asp	Glu	Gly	Met	Asn	Gly	Leu	Ser	Thr	Arg	Phe	Ala	Phe		
		420						425					430				
Lys	Ile	Leu	Ser	Arg	Val	Phe	Asn	Phe	Asp	His	Ala	Glu	Val	Ala	Ala		
	435						440					445					
Asn	Pro	Val	His	Leu	Phe	Tyr	Val	Leu	Glu	Gln	Gln	Ile	Glu	Arg	Glu		
	450					455					460						
Gln	Phe	Pro	Gln	Glu	Gln	Ala	Glu	Arg	Tyr	Leu	Glu	Phe	Leu	Lys	Gly		
465					470					475					480		
Tyr	Leu	Ile	Pro	Lys	Tyr	Ala	Glu	Phe	Ile	Gly	Lys	Glu	Ile	Gln	Thr		
			485						490					495			
Ala	Tyr	Leu	Glu	Ser	Tyr	Ser	Glu	Tyr	Gly	Gln	Asn	Ile	Phe	Glu	Ser		
		500						505					510				
Ser	Pro	Arg	Gly	Ser	Lys	Asp	His	Glu	Arg	Ser	Arg	Xaa					
		515					520					525					

<210> 6177

<211> 258

<212> PRT

<213> Enterobacter cloacae

<400> 6177

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Leu Phe Asp Tyr Arg Lys Glu Trp Ile Val Thr Lys Leu Lys Leu Leu
1      5      10      15
Ala Leu Gly Ile Leu Ala Ala Thr Ala Ala Ser Thr Val Gln Ala Glu
20      25      30
Ser Gln Trp Thr Val Gly Ala Gly Ala Gly Val Ile Asn Ser Pro Tyr
35      40      45
Lys Gln Tyr Asp Arg Asp Val Tyr Pro Val Pro Val Val Thr Tyr Glu
50      55      60
Gly Asp Asn Phe Trp Phe Arg Gly Leu Gly Gly Gly Tyr Tyr Leu Trp
65      70      75      80
Asn Asp Thr Ala Asp Lys Leu Ser Ile Met Ala Tyr Tyr Asp Pro Thr
85      90      95
His Phe Lys Pro Gly Asp Ser Asp Ser Asn Ala Leu Arg Gln Leu Asp
100     105     110
Lys Arg Arg Ser Ser Leu Met Ala Gly Leu Ser Tyr Val His Asn Thr
115     120     125
Glu Tyr Gly Phe Leu Arg Thr Ala Leu Ala Gly Asp Thr Leu Asp Asn
130     135     140
Ser Asn Gly Phe Ile Trp Asp Leu Ala Trp Leu Tyr Arg Tyr Thr Asn
145     150     155     160
Gly Ala Val Thr Leu Thr Pro Gly Ile Gly Val Gln Tyr Ser Ser Glu
165     170     175
Asn Tyr Asn Asp Tyr Tyr Tyr Gly Val Ser Lys Ala Glu Ser Arg Arg
180     185     190
Ser Gly Leu Asn Ser Tyr Ser Ala Asp Asp Gly Trp Asp Pro Tyr Leu
195     200     205
Glu Leu Thr Ala Ser Tyr Asn Phe Leu Gly Asp Trp Asn Val Tyr Gly
210     215     220
Thr Gly Arg Tyr Ile Arg Leu Ser Asp Glu Val Lys Asp Ser Pro Met
225     230     235     240
Val Asp Lys Ser Trp Ser Gly Ile Phe Ser Val Gly Val Thr Tyr Lys
245     250     255
Phe

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<210> 6178

<211> 61

<212> PRT

<213> Enterobacter cloacae

<400> 6178

```

Asn Val Asp Phe Leu Gln Gly Asp Phe Arg Asp Glu Leu Val Leu Lys
1      5      10      15
Ala Leu Leu Asp Arg Val Gly Asp Ser Lys Val Gln Val Val Met Ser
20      25      30
Asp Met Ala Pro Asn Met Cys Gly Asn Thr Gly Gly Gly Tyr Pro Pro
35      40      45
Arg His Val Ser Gly Gly Thr Ser Val Arg Asn Val Ser
50      55      60

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<210> 6179

<211> 311

<212> PRT

<213> Enterobacter cloacae

<400> 6179

```

Ser Val Cys Leu Tyr Leu Lys Pro Trp Ser Leu Leu Arg Gly Phe Ser
1      5      10      15
Tyr Leu Phe Asn His Ile Asn Pro Arg Asp Phe Thr Met Lys Leu Phe
20      25      30

```

Ala Gln Asp Ser His Leu Asp Leu Thr His Pro His Val Met Gly Ile
 35 40 45
 Leu Asn Val Thr Pro Asp Ser Phe Ser Asp Gly Gly Thr His Asn Ser
 50 55 60
 Leu Ile Asp Ala Val Lys His Ala Asn Leu Met Ile Asn Ala Gly Ala
 65 70 75 80
 Thr Ile Ile Asp Val Gly Gly Glu Ser Thr Arg Pro Gly Ala Ala Glu
 85 90 95
 Val Ser Val Glu Glu Glu Leu Ala Arg Val Val Pro Val Val Glu Ala
 100 105 110
 Ile Ala Arg Arg Phe Glu Val Trp Ile Ser Val Asp Thr Ser Lys Pro
 115 120 125
 Glu Val Ile Arg Glu Val Ala Arg Val Gly Ala His Ile Ile Asn Asp
 130 135 140
 Ile Arg Ser Leu Thr Glu Pro Gly Ala Ile Glu Ala Ala Ala Glu Thr
 145 150 155 160
 Gly Leu Pro Val Cys Leu Met His Met Gln Gly Gln Pro Lys Thr Met
 165 170 175
 Gln Glu Ala Pro Lys Tyr Glu Asp Val Phe Ala Asp Val Thr Arg Phe
 180 185 190
 Phe Ile Glu His Ile Glu Arg Cys Glu Arg Ala Gly Ile Ala Lys Glu
 195 200 205
 Lys Leu Leu Leu Asp Pro Gly Phe Gly Phe Gly Lys Asn Leu Ser His
 210 215 220
 Asn Tyr Ala Leu Leu Ala Arg Leu Ser Glu Phe His Gln Phe Gly Leu
 225 230 235 240
 Pro Leu Leu Val Gly Met Ser Arg Lys Ser Met Ile Gly Gln Leu Leu
 245 250 255
 Asn Val Gly Pro Ser Glu Arg Leu Ser Gly Ser Leu Ala Cys Ala Val
 260 265 270
 Ile Ala Ala Met Gln Gly Ala His Ile Ile Arg Val His Asp Val Lys
 275 280 285
 Glu Thr Val Glu Ala Met Arg Val Val Glu Ala Thr Leu Ala Ala Lys
 290 295 300
 Glu Asn Lys Arg Tyr Glu
 305 310

<210> 6180

<211> 96

<212> PRT

<213> Enterobacter cloacae

<400> 6180

Val Thr Val Arg Ser Arg Leu Ser Cys Arg Ile Trp Arg Gln Ile Cys
 1 5 10 15
 Val Glu Thr Pro Ala Val Asp Ile Pro Arg Ala Met Tyr Leu Val Glu
 20 25 30
 Leu Ala Leu Glu Met Cys Arg Asp Val Leu Ala Pro Gly Gly Ser Phe
 35 40 45
 Val Val Lys Val Phe Gln Gly Glu Gly Phe Glu Glu Tyr Leu Lys Glu
 50 55 60
 Ile Arg Ser Leu Phe Ala Lys Val Lys Val Arg Lys Pro Asp Ser Ser
 65 70 75 80
 Arg Ala Arg Ser Arg Glu Val Tyr Ile Val Ala Thr Gly Arg Lys
 85 90 95

<210> 6181

<211> 653

<212> PRT

<213> Enterobacter cloacae

Tyr 1	Glu	Val	Asn	Pro 5	Leu	Ser	Asp	Met	Ala 10	Lys	Asn	Leu	Ile	Leu 15	Trp
Leu	Val	Ile	Ala 20	Val	Val	Leu	Met	Ser 25	Val	Phe	Gln	Ser	Phe 30	Gly	Pro
Ser	Glu	Ser 35	Asn	Gly	Arg	Lys	Val 40	Asp	Tyr	Ser	Thr	Phe 45	Leu	Gln	Glu
Val	Asn 50	Gln	Asp	Gln	Val	Arg 55	Glu	Ala	Arg	Ile	Asn 60	Gly	Arg	Glu	Ile
Asn 65	Val	Thr	Lys	Lys 70	Asp	Ser	Asn	Arg	Tyr	Thr 75	Thr	Tyr	Ile	Pro	Val 80
Asn	Asp	Pro	Lys 85	Leu	Leu	Asp	Asn	Leu 90	Leu	Thr	Lys	Asn	Val	Lys 95	Val
Val	Gly	Glu	Pro 100	Pro	Glu	Glu	Pro	Ser 105	Leu	Leu	Ala	Ser	Ile 110	Phe	Ile
Ser	Trp	Phe 115	Pro	Met	Leu	Leu	Leu 120	Ile	Gly	Val	Trp	Ile 125	Phe	Phe	Met
Arg	Gln 130	Met	Gln	Gly	Gly	Gly 135	Gly	Lys	Gly	Ala	Met 140	Ser	Phe	Gly	Lys
Ser 145	Lys	Ala	Arg	Met 150	Leu	Thr	Glu	Asp	Gln	Ile 155	Lys	Thr	Thr	Phe	Ala 160
Asp	Val	Ala	Gly 165	Cys	Asp	Glu	Ala	Lys	Glu 170	Glu	Val	Gly	Glu	Leu 175	Val
Glu	Tyr	Leu 180	Arg	Glu	Pro	Ser	Arg 185	Phe	Gln	Lys	Leu	Gly 190	Gly	Lys	Ile
Pro	Lys 195	Gly	Val	Leu	Met	Val	Gly 200	Pro	Pro	Gly	Thr 205	Gly	Lys	Thr	Leu
Leu 210	Ala	Lys	Ala	Ile	Ala	Gly 215	Glu	Ala	Lys	Val	Pro 220	Phe	Pne	Thr	Ile
Ser 225	Gly	Ser	Asp	Phe 230	Val	Glu	Met	Phe	Val	Gly 235	Val	Gly	Ala	Ser	Arg 240
Val	Arg	Asp	Met 245	Phe	Glu	Gln	Ala	Lys	Lys 250	Ala	Ala	Pro	Cys	Ile 255	Ile
Phe	Ile	Asp 260	Glu	Ile	Asp	Ala	Val 265	Gly	Arg	Gln	Arg	Gly 270	Ala	Gly	Leu
Gly	Gly	Gly 275	His	Asp	Glu	Arg	Glu 280	Gln	Thr	Leu	Asn	Gln 285	Met	Leu	Val
Glu	Met 290	Asp	Gly	Phe	Glu	Gly 295	Asn	Glu	Gly	Ile	Ile 300	Val	Ile	Ala	Ala
Thr 305	Asn	Arg	Pro	Asp 310	Val	Leu	Asp	Pro	Ala	Leu 315	Leu	Arg	Pro	Gly	Arg 320
Phe	Asp	Arg	Gln 325	Val	Val	Val	Gly	Leu	Pro 330	Asp	Val	Arg	Gly	Arg 335	Glu
Gln	Ile	Leu 340	Lys	Val	His	Met	Arg 345	Arg	Val	Pro	Leu	Ala 350	Pro	Asp	Ile
Asp	Ala 355	Ala	Ile	Ile	Ala	Arg	Gly 360	Thr	Pro	Gly	Phe	Ser 365	Gly	Ala	Asp
Leu	Ala 370	Asn	Leu	Val	Asn	Glu 375	Ala	Ala	Leu	Phe	Ala 380	Ala	Arg	Gly	Asn
Lys 385	Arg	Val	Val	Ser 390	Met	Val	Glu	Phe	Glu	Lys 395	Ala	Lys	Asp	Lys	Ile 400
Met	Met	Gly	Ala 405	Glu	Arg	Arg	Ser	Met	Val 410	Met	Thr	Glu	Ala	Gln 415	Lys
Glu	Ser	Thr 420	Ala	Tyr	His	Glu	Ala 425	Gly	His	Ala	Ile	Ile 430	Gly	Arg	Leu
Val	Pro 435	Glu	His	Asp	Pro	Val	His 440	Lys	Val	Thr	Ile 445	Ile	Pro	Arg	Gly
Arg	Ala 450	Leu	Gly	Val	Thr	Phe 455	Phe	Leu	Pro	Glu	Gly 460	Asp	Ala	Ile	Ser
Ala 465	Ser	Arg	Gln	Lys 470	Leu	Glu	Ser	Gln	Ile	Ser 475	Thr	Leu	Tyr	Gly	Gly 480

Arg Leu Ala Glu Glu Ile Ile Tyr Gly Ala Glu His Val Ser Thr Gly
 485 490 495
 Ala Ser Asn Asp Ile Lys Val Ala Thr Asn Leu Ala Arg Asn Met Val
 500 505 510
 Thr Gln Trp Gly Phe Ser Asp Lys Leu Gly Pro Leu Leu Tyr Ala Glu
 515 520 525
 Glu Glu Gly Glu Val Phe Leu Gly Arg Ser Val Ala Lys Ala Lys His
 530 535 540
 Met Ser Asp Glu Thr Ala Arg Ile Ile Asp Gln Glu Val Lys Ala Leu
 545 550 555 560
 Ile Glu Arg Asn Tyr Ala Arg Ala Arg Gln Ile Leu Asn Asp Asn Met
 565 570 575
 Asp Ile Leu His Ser Met Lys Asp Ala Leu Met Lys Tyr Glu Thr Ile
 580 585 590
 Asp Ala Pro Gln Ile Asp Asp Leu Met Ala Arg Arg Glu Val Arg Pro
 595 600 605
 Pro Ala Gly Trp Glu Asp Pro Gly Ala Ser Asn Asn Ser Asp Asn Asn
 610 615 620
 Gly Thr Pro Arg Ala Pro Arg Pro Val Asp Glu Pro Arg Thr Pro Asn
 625 630 635 640
 Pro Gly Asn Thr Met Ser Glu Gln Leu Gly Asp Lys
 645 650

<210> 6182

<211> 375

<212> PRT

<213> Enterobacter cloacae

<400> 6182

Lys Pro Cys Val Trp Trp Lys Pro His Trp Gln Arg Arg Lys Thr Asn
 1 5 10 15
 Ala Met Ser Asn Arg Lys Tyr Phe Gly Thr Asp Gly Ile Arg Gly Arg
 20 25 30
 Val Gly Asp Ala Pro Ile Thr Pro Asp Phe Val Leu Lys Leu Gly Trp
 35 40 45
 Ala Ala Gly Lys Val Leu Ala Arg His Gly Ser Arg Lys Ile Ile Ile
 50 55 60
 Gly Lys Asp Thr Arg Ile Ser Gly Tyr Met Leu Glu Ser Ala Leu Glu
 65 70 75 80
 Ala Gly Leu Ala Ala Ala Gly Leu Ser Ala Ser Phe Thr Gly Pro Met
 85 90 95
 Pro Thr Pro Ala Val Ala Tyr Leu Thr Arg Thr Phe Arg Ala Glu Ala
 100 105 110
 Gly Ile Val Ile Ser Ala Ser His Asn Pro Phe Tyr Asp Asn Gly Ile
 115 120 125
 Lys Phe Ser Ile Asp Gly Thr Lys Leu Pro Asp Asp Val Glu Glu
 130 135 140
 Ala Ile Glu Ala Glu Met Glu Lys Glu Ile Thr Cys Val Asp Ser Ala
 145 150 155 160
 Glu Leu Gly Lys Ala Asn Arg Ile Val Asp Ala Ala Gly Arg Tyr Ile
 165 170 175
 Glu Phe Cys Lys Gly Thr Phe Pro Asn Glu Leu Ser Leu Ala His Leu
 180 185 190
 Lys Ile Val Val Asp Cys Ala Asn Gly Ala Thr Tyr His Ile Ala Pro
 195 200 205
 Asn Val Phe Arg Glu Leu Gly Ala Lys Val Ile Thr Ile Gly Cys Glu
 210 215 220
 Pro Asp Gly Leu Asn Ile Asn Glu Glu Val Gly Ala Thr Asp Val Arg
 225 230 235 240
 Ala Leu Gln Ala Arg Val Leu Ala Glu Lys Ala Asp Leu Gly Ile Ala
 245 250 255

Leu Asp Gly Asp Gly Asp Arg Val Ile Met Val Asp His Glu Gly Asn
 260 265 270
 Lys Val Asp Gly Asp Gln Ile Leu Tyr Ile Ile Ala Arg Glu Gly Leu
 275 280 285
 Arg Gln Gly Gln Leu Arg Gly Gly Ala Val Gly Thr Leu Met Ser Asn
 290 295 300
 Met Gly Leu Glu Leu Ala Leu Lys Gln Leu Gly Ile Pro Phe Val Arg
 305 310 315 320
 Ala Lys Val Gly Asp Arg Tyr Val Leu Glu Lys Leu Gln Glu Lys Gly
 325 330 335
 Trp Arg Ile Gly Ala Glu Asn Ser Gly His Val Ile Leu Leu Asp Lys
 340 345 350
 Thr Thr Thr Gly Asp Gly Ile Val Ala Ala Leu His Phe Ser Leu Gly
 355 360 365
 Val Ala Glu Pro Arg Ile Glu
 370 375

<210> 6183

<211> 726

<212> PRT

<213> Enterobacter cloacae

<220>

<221> UNSURE

<222> (65)

<400> 6183

His Ala Ser Thr Gly Val Glu Asn Ser Pro Thr Pro Val Pro Ile Thr
 1 5 10 15
 Tyr Pro Ala Ser Gly Arg Leu Phe Phe Val Phe His Phe Phe Glu Leu
 20 25 30
 Ser Val Asp Asn Ile Ile Val Phe Arg Val Val Arg Arg Ser Ile Ser
 35 40 45
 Ala Arg Leu Leu Leu Cys Val Leu Leu Leu Ser Asp Phe His Gln Leu
 50 55 60
 Xaa Arg Asn Leu Cys Gln Leu Leu His Leu Arg Phe Asp Val Arg Phe
 65 70 75 80
 Val Phe Ala Phe Gln Arg Arg Phe Gln Arg Ala Gln Cys Ser Phe Asp
 85 90 95
 Cys Ser Phe Val Phe Arg Trp Gln Phe Ile Ala Arg Phe Phe Asn Leu
 100 105 110
 Leu Thr Gly Ala Val Gln Gln Met Val Thr Leu Val Thr Gly Leu Asn
 115 120 125
 Gln Leu Phe Lys Leu Thr Val Gly Phe Arg Val Ser Phe Gly Ile Thr
 130 135 140
 Asn His Phe Phe Asp Phe Arg Phe Val Gln Ala Arg Arg Cys Leu Asp
 145 150 155 160
 Gly Asn Leu Leu Leu Phe Thr Ala Val Phe Val Phe Arg Arg His Val
 165 170 175
 Gln Asp Thr Val Ser Ile Asp Val Glu Gly Asp Phe Asp Leu Trp His
 180 185 190
 Ala Ala Trp Cys Arg Val Asn Thr Val Gln Val Glu Leu Thr Gln Arg
 195 200 205
 Phe Val Ile Arg Arg Ala Leu Thr Leu Thr Leu Asn His Met Asp Gly
 210 215 220
 Tyr Arg Arg Leu Val Val Phe Ser Gly Arg Glu His Leu Ala Val Phe
 225 230 235 240
 Arg Arg Asp Ser Gly Val Phe Val Asp Glu Arg Ser His His Thr Ala
 245 250 255
 His Gly Phe Asp Thr Gln Arg Gln Arg Gly Asn Val Gln Gln Gln Tyr
 260 265 270

Val	Phe	His	Phe	Thr	Gly	Gln	Tyr	Thr	Thr	Leu	Asn	Arg	Ser	Thr	Asp		
		275					280					285					
Ser	Asn	Arg	Phe	Val	Arg	Val	His	Val	Phe	Thr	Trp	Leu	Phe	Thr	Lys		
	290					295					300						
Glu	Phe	Ser	His	Phe	Leu	Asn	His	Arg	His	Thr	Ser	Leu	Thr	Thr			
305					310				315					320			
Tyr	Gln	Asp	Asn	Val	Leu	Asn	Val	Arg	His	Gly	Gln	Ala	Ser	Val	Leu		
				325					330					335			
Gln	Cys	Asn	Phe	Gln	Trp	Leu	Asp	Arg	Thr	Val	His	Gln	Val	Phe	Tyr		
			340					345					350				
Gln	Ala	Phe	Gln	Phe	Arg	Thr	Gly	His	Phe	Asp	Val	His	Val	Phe	Trp		
	355						360					365					
Thr	Gly	Arg	Val	Cys	Ser	Asp	Val	Arg	Gln	Val	His	Val	Gly	Leu	Leu		
	370					375					380						
Ser	Gly	Arg	Gln	Leu	Asp	Leu	Arg	Phe	Leu	Ser	Gly	Phe	Phe	Gln	Ala		
385					390					395					400		
Leu	His	Ser	Gln	Arg	Val	Val	Thr	Gln	Val	Asn	Ala	Leu	Ile	Phe	Leu		
			405						410					415			
Glu	Leu	Val	Asn	Glu	Val	Val	Asp	Gln	Thr	Gly	Ile	Glu	Val	Phe	Thr		
			420					425					430				
Thr	Gln	Val	Gly	Ile	Thr	Val	Gly	Cys	Gln	Asn	Phe	Glu	Gly	Phe	Phe		
	435						440					445					
Ala	Val	Asn	Ile	Val	Asp	Phe	Asp	Asn	Arg	Asn	Ile	Glu	Gly	Thr	Thr		
	450				455						460						
Thr	Gln	Val	Val	Asn	Arg	Asp	Ser	Thr	Val	Ala	Asn	Phe	Phe	Ile	Gln		
465				470						475					480		
Thr	Val	Ser	Gln	Cys	Cys	Cys	Gly	Trp	Phe	Val	Asp	Asp	Thr	Phe	Tyr		
			485					490					495				
Phe	Gln	Ala	Cys	Asp	Thr	Ala	Ser	Ile	Phe	Gly	Cys	Leu	Thr	Leu	Ser		
			500				505						510				
Ile	Val	Glu	Val	Ser	Arg	Tyr	Gly	Asp	Asn	Ser	Phe	Ser	Tyr	Arg	Phe		
	515						520					525					
Thr	Gln	Val	Ile	Phe	Arg	Ser	Phe	Leu	His	Phe	Leu	Gln	His	Phe	Ser		
	530					535					540						
Arg	Asp	Leu	Arg	Arg	Cys	Ser	Phe	Gly	Ala	Phe	His	Ile	Lys	Pro	Cys		
545					550					555					560		
Ile	Ala	Val	Ile	Gly	Cys	Asp	Asp	Phe	Val	Arg	His	Asp	Gly	Asn	Val		
			565					570						575			
Thr	Leu	Asn	Phe	Phe	Val	Leu	Glu	Ala	Ala	Ala	Asn	Gln	Ala	Phe	Asp		
			580					585					590				
Arg	Lys	Gln	Gly	Val	Leu	Arg	Val	Cys	His	Cys	Leu	Thr	Phe	Ser	Arg		
	595						600					605					
Leu	Thr	Asn	Gln	Ser	Phe	Thr	Ile	Leu	Gly	Ile	Ser	Asn	Asp	Arg	Arg		
	610					615					620						
Arg	Gly	Ala	Ile	Ala	Leu	Gly	Val	Leu	Gln	His	Thr	Cys	Ser	Ser	Ala		
625					630					635					640		
Ile	His	Asn	Arg	Tyr	Thr	Arg	Val	Gly	Ser	Thr	Gln	Val	Asp	Thr	Asn		
			645					650					655				
Asn	Phe	Thr	His	Leu	Asn	Val	Ser	Thr	Lys	Asn	Ser	Val	Asn	Met	Trp		
			660					665					670				
Leu	Cys	Thr	Cys	Asn	Lys	Gly	Arg	Thr	Cys	Phe	Phe	Asn	Cys	Pro	Asp		
	675						680					685					
Leu	Ile	Phe	Phe	Arg	Ser	Thr	His	Cys	Gly	Cys	Leu	Gln	Asp	Gly	Val		
	690					695					700						
Thr	Thr	Ala	Ser	Ile	Lys	Gly	Gly	Arg	Ile	Lys	Asn	Phe	Leu	Ile	Ser		
705					710					715					720		
Pro	Pro	Met	Arg	Ser													
				725													

<210> 6184

<211> 229

<212> PRT

<213> Enterobacter cloacae

<400> 6184

```

Ser Gly Arg Tyr Arg Asp Tyr Arg Ala Val Leu His Gln Arg Ser Val
1      5      10      15
Arg Ser Val Ala Glu Arg Gly Gly Arg Gly Tyr Cys Gly Ala Gly Val
      20      25      30
Ala Glu Arg Leu Gln Arg Pro Thr His Gly Asp Leu Tyr Ser Gly Gly
      35      40      45
Asp Gly Ala Val Asp Gly Gly Ala Glu Val Trp Arg Ala Cys His Ala
      50      55      60
Gly Gly Arg His Arg Trp Leu Leu Tyr Ser Ala Glu Gly Thr Gly Arg
      65      70      75      80
Gln Ile Ala Cys Gln Thr Ala Gly Ala Cys Ala Ser Ser Val Gly Gly
      85      90      95
Phe Tyr Asp Pro Ala Ala Val Cys Val Cys Gln Arg Gly Cys Phe Pro
      100     105     110
Trp Pro Gly Val Thr Leu Asp Gly Leu Thr Ser Val Leu Pro Leu Gly
      115     120     125
Ile Ile Ala Gly Leu Phe Ile Gly Lys Pro Leu Gly Ile Ser Leu Phe
      130     135     140
Cys Trp Leu Ala Leu Lys Leu Lys Leu Ala Ser Leu Pro Asn Gly Thr
      145     150     155     160
Thr Phe Ser Gln Ile Met Ala Val Gly Val Leu Cys Gly Ile Gly Phe
      165     170     175
Thr Met Ser Ile Phe Ile Ser Thr Leu Ala Phe Gly Ala Ser Ala Pro
      180     185     190
Glu Leu Ile Val Trp Ala Lys Leu Gly Ile Leu Ile Gly Ser Phe Leu
      195     200     205
Ala Ala Val Met Gly Tyr Thr Leu Leu Lys Val Lys Leu Ser Gly Gln
      210     215     220
Ala Val Gln Thr
225

```

<210> 6185

<211> 638

<212> PRT

<213> Enterobacter cloacae

<400> 6185

```

Met Gly Lys Ile Ile Gly Ile Asp Leu Gly Thr Thr Asn Ser Cys Val
1      5      10      15
Ala Ile Met Asp Gly Thr Thr Ala Arg Val Leu Glu Asn Ala Glu Gly
      20      25      30
Asp Arg Thr Thr Pro Ser Ile Ile Ala Tyr Thr Gln Asp Gly Glu Thr
      35      40      45
Leu Val Gly Gln Pro Ala Lys Arg Gln Ala Val Thr Asn Pro Gln Asn
      50      55      60
Thr Leu Phe Ala Ile Lys Arg Leu Ile Gly Arg Arg Phe Gln Asp Glu
      65      70      75      80
Glu Val Gln Arg Asp Val Ser Ile Met Pro Tyr Lys Ile Ile Ala Ala
      85      90      95
Asp Asn Gly Asp Ala Trp Leu Asp Val Lys Gly Thr Lys Thr Ala Pro
      100     105     110
Pro Gln Ile Ser Ala Glu Val Leu Lys Lys Met Lys Lys Thr Ala Glu
      115     120     125
Asp Tyr Leu Gly Glu Pro Val Thr Glu Ala Val Ile Thr Val Pro Ala
      130     135     140
Tyr Phe Asn Asp Ala Gln Arg Gln Ala Thr Lys Asp Ala Gly Arg Ile
      145     150     155     160

```

Ala	Gly	Leu	Glu	Val	Lys	Arg	Ile	Ile	Asn	Glu	Pro	Thr	Ala	Ala	Ala
				165					170					175	
Leu	Ala	Tyr	Gly	Leu	Asp	Lys	Glu	Val	Gly	Asn	Arg	Thr	Ile	Ala	Val
			180					185					190		
Tyr	Asp	Leu	Gly	Gly	Gly	Thr	Phe	Asp	Ile	Ser	Ile	Ile	Glu	Ile	Asp
		195					200					205			
Asp	Val	Asp	Gly	Glu	Lys	Thr	Phe	Glu	Val	Leu	Ala	Thr	Asn	Gly	Asp
	210					215					220				
Thr	His	Leu	Gly	Gly	Glu	Asp	Phe	Asp	Thr	Arg	Leu	Ile	Asn	Tyr	Leu
225					230					235					240
Val	Asp	Glu	Phe	Lys	Lys	Asp	Gln	Gly	Ile	Asp	Leu	Arg	Asn	Asp	Pro
				245					250					255	
Leu	Ala	Met	Gln	Arg	Leu	Lys	Glu	Ala	Ala	Glu	Lys	Ala	Lys	Ile	Glu
			260					265					270		
Leu	Ser	Ser	Ala	Gln	Gln	Thr	Asp	Val	Asn	Leu	Pro	Tyr	Ile	Thr	Ala
		275					280					285			
Asp	Ala	Thr	Gly	Pro	Lys	His	Met	Asn	Ile	Lys	Val	Thr	Arg	Ala	Lys
	290					295					300				
Leu	Glu	Ser	Leu	Val	Glu	Asp	Leu	Val	Asn	Arg	Ser	Ile	Glu	Pro	Leu
305					310					315					320
Lys	Val	Ala	Leu	Gln	Asp	Ala	Gly	Leu	Ser	Val	Ser	Asp	Ile	Gln	Asp
				325					330					335	
Val	Ile	Leu	Val	Gly	Gly	Gln	Thr	Arg	Met	Pro	Met	Val	Gln	Lys	Lys
			340					345					350		
Val	Ala	Glu	Phe	Phe	Gly	Lys	Glu	Pro	Arg	Lys	Asp	Val	Asn	Pro	Asp
		355					360					365			
Glu	Ala	Val	Ala	Ile	Gly	Ala	Ala	Val	Gln	Gly	Gly	Val	Leu	Thr	Gly
	370					375					380				
Glu	Val	Lys	Asp	Val	Leu	Leu	Leu	Asp	Val	Thr	Pro	Leu	Ser	Leu	Gly
385					390					395					400
Ile	Glu	Thr	Met	Gly	Gly	Val	Met	Thr	Ala	Leu	Ile	Asn	Lys	Asn	Thr
			405						410					415	
Thr	Ile	Pro	Thr	Lys	His	Ser	Gln	Val	Phe	Ser	Thr	Ala	Glu	Asp	Asn
			420					425					430		
Gln	Ser	Ala	Val	Thr	Ile	His	Val	Ile	Gln	Gly	Glu	Arg	Lys	Arg	Ala
		435					440					445			
Ala	Asp	Asn	Lys	Ser	Leu	Gly	Gln	Phe	Asn	Leu	Asp	Gly	Ile	Asn	Pro
	450					455					460				
Ala	Pro	Arg	Gly	Met	Pro	Gln	Ile	Glu	Val	Thr	Phe	Asp	Ile	Asp	Ala
465					470					475					480
Asp	Gly	Ile	Leu	His	Val	Ser	Ala	Lys	Asp	Lys	Asn	Ser	Gly	Lys	Glu
				485					490					495	
Gln	Lys	Ile	Thr	Ile	Lys	Ala	Ser	Ser	Gly	Leu	Asn	Glu	Ala	Glu	Ile
		500						505					510		
Glu															

<210> 6186
 <211> 337
 <212> PRT
 <213> Enterobacter cloacae

<400> 6186

```

Ser Val Phe Thr Asp Leu Phe Ala Leu Ile Leu Trp Phe Tyr Arg Gly
1      5      10      15
Ile Val Val Lys Glu Ser Leu Asn Val Lys Leu Leu His Arg Phe Phe
20     25     30
Ser Ser Glu Ala Ser Gly Gly Val Ile Leu Ile Ala Ala Ala Ala
35     40     45
Ala Met Leu Leu Ala Asn Met Gly Met Thr Arg Asp Leu Tyr His Ala
50     55     60
Phe Leu Glu Thr Pro Val Glu Leu Lys Val Gly Ala Leu Glu Ile Asn
65     70     75     80
Lys Asn Met Leu Leu Trp Ile Asn Asp Ala Leu Met Ala Val Phe Phe
85     90     95
Leu Leu Val Gly Leu Glu Val Lys Arg Glu Leu Val Ser Gly Ser Leu
100    105    110
Ala Ser Arg Gln Arg Ala Ala Phe Pro Val Ile Ala Ala Ile Gly Gly
115    120    125
Met Ile Val Pro Ala Leu Leu Phe Leu Ala Phe Ala Trp Gln Asp Pro
130    135    140
Val Ala Arg Asp Gly Trp Ala Ile Pro Ala Ala Thr Asp Ile Ala Phe
145    150    155    160
Ala Leu Gly Val Leu Ser Leu Leu Gly Ser Arg Val Pro Val Ala Leu
165    170    175
Lys Ile Phe Leu Met Ala Leu Ala Ile Ile Asp Asp Leu Gly Ala Ile
180    185    190
Val Ile Ile Ala Leu Phe Tyr Thr Ser Asp Leu Ser Val Leu Ser Leu
195    200    205
Ser Val Ala Ala Val Ala Ile Ala Val Leu Ala Leu Leu Asn Val Phe
210    215    220
Asn Val Arg Arg Thr Gly Ile Tyr Ile Leu Val Gly Met Val Leu Trp
225    230    235    240
Thr Ala Val Leu Lys Ser Gly Val His Ala Thr Leu Ala Gly Val Ile
245    250    255
Val Gly Phe Phe Ile Pro Leu Lys Glu Gln Asp Gly Lys Ser Pro Ala
260    265    270
Arg Gln Leu Glu His Val Leu His Pro Trp Val Gly Phe Met Ile Leu
275    280    285
Pro Leu Phe Ala Phe Ala Asn Ala Gly Val Ser Pro Gly Pro Gly Leu
290    295    300
Pro Trp Thr Asp Ser Pro Leu Cys Cys Arg Trp Val Ser Ser Pro Val
305    310    315    320
Cys Leu Leu Val Ser Arg Trp Ala Ser Ala Cys Ser Ala Gly Trp Arg
325    330    335

```

<210> 6187
 <211> 329
 <212> PRT
 <213> Enterobacter cloacae

<400> 6187

```

Ser Cys Pro Asp Arg Leu Ser Arg His Asn Arg Lys Pro Gly Glu Gly
1      5      10      15
Lys Pro Ser Pro Asp Lys Leu Ser Gly Ser Glu Asn Val Met Ser His
20     25     30

```

Leu Asn Tyr Asn His Leu Tyr Tyr Phe Trp His Val Tyr Lys Gln Gly
 35 40 45
 Ser Val Val Gly Ala Ala Glu Ala Leu Tyr Leu Thr Pro Gln Thr Ile
 50 55 60
 Thr Gly Gln Ile Lys Ala Leu Glu Glu Arg Leu Gln Gly Lys Leu Phe
 65 70 75 80
 Lys Arg Lys Gly Arg Gly Ile Glu Pro Ser Glu Leu Gly Glu Leu Val
 85 90 95
 Phe Arg Tyr Ala Asp Lys Met Phe Thr Leu Ser Gln Glu Met Leu Asp
 100 105 110
 Ile Val Asn Tyr Arg Lys Glu Leu Asn Leu Leu Phe Asp Val Gly Val
 115 120 125
 Ala Asp Ala Leu Ser Lys Arg Leu Val Ser Gly Val Leu Asp Ala Ala
 130 135 140
 Val Val Glu Asp Glu Gln Ile His Leu Arg Cys Phe Glu Ser Thr His
 145 150 155 160
 Glu Met Leu Leu Glu Gln Leu Ser Gln His Lys Leu Asp Met Ile Ile
 165 170 175
 Ser Asp Cys Pro Ile Asp Ser Thr Gln Gln Glu Gly Leu Phe Ser Val
 180 185 190
 Lys Ile Gly Glu Cys Gly Val Ser Phe Trp Cys Ile Asn Pro Pro Pro
 195 200 205
 Glu Lys Pro Phe Pro Ala Cys Leu Glu Glu Arg Arg Leu Leu Val Pro
 210 215 220
 Gly Arg Arg Ser Met Leu Gly Arg Lys Leu Leu Asn Trp Phe Asn Ser
 225 230 235 240
 Gln Gly Leu Asn Val Glu Ile Leu Gly Glu Phe Asp Asp Ala Ala Leu
 245 250 255
 Met Lys Ala Phe Gly Glu Ala His Asn Ala Ile Phe Val Ala Pro Thr
 260 265 270
 Leu Tyr Val His Asp Leu Tyr Ser Asp Asp Lys Ile Thr Glu Ile Gly
 275 280 285
 Arg Val Asp Asn Val Met Glu Glu Tyr His Ala Ile Phe Ala Glu Arg
 290 295 300
 Met Ile Gln His Pro Ala Val Gln Arg Ile Cys Asn Arg Asp Tyr Ser
 305 310 315 320
 Ala Leu Phe Thr Pro Pro Ala Ile
 325

<210> 6188

<211> 372

<212> PRT

<213> Enterobacter cloacae

<400> 6188

Ala Phe Arg Lys Leu Arg Lys Ser Val Lys Ser Lys Lys Ala Tyr Lys
 1 5 10 15
 Arg Leu Ala Met Lys Phe His Pro Asp Arg Asn Gln Gly Asp Lys Glu
 20 25 30
 Ala Glu Ala Lys Phe Lys Glu Ile Lys Glu Ala Tyr Glu Val Leu Thr
 35 40 45
 Asp Ala Gln Lys Arg Ala Ala Tyr Asp Gln Tyr Gly His Ala Ala Phe
 50 55 60
 Glu Gln Gly Gly Met Gly Gly Gly Gly Phe Gly Gly Gly Gly Phe Gly
 65 70 75 80
 Gly Gly Ala Asp Phe Ser Asp Ile Phe Gly Asp Val Phe Gly Asp Ile
 85 90 95
 Phe Gly Gly Gly Arg Gly Arg Gln Arg Ala Ala Arg Gly Ala Asp Leu
 100 105 110
 Arg Tyr Asn Met Asp Leu Thr Leu Glu Glu Ala Val Arg Gly Val Thr
 115 120 125

Lys Glu Ile Arg Ile Pro Thr Leu Glu Glu Cys Asp Val Cys His Gly
 130 135 140
 Ser Gly Ala Lys Ala Gly Thr Gln Pro Gln Thr Cys Pro Thr Cys His
 145 150 155 160
 Gly Ser Gly Gln Val Gln Met Arg Gln Gly Phe Phe Ala Val Gln Gln
 165 170 175
 Ala Cys Pro His Cys His Gly Arg Gly Thr Leu Ile Lys Asp Pro Cys
 180 185 190
 Thr Lys Cys His Gly His Gly Arg Val Glu Lys Thr Lys Thr Leu Ser
 195 200 205
 Val Lys Ile Pro Ala Gly Val Asp Thr Gly Asp Arg Ile Arg Leu Ala
 210 215 220
 Gly Glu Gly Glu Ala Gly Glu His Gly Ala Pro Ala Gly Asp Leu Tyr
 225 230 235 240
 Val Gln Val Gln Val Lys Gln His Ala Ile Phe Glu Arg Glu Gly Asn
 245 250 255
 Asn Leu Tyr Cys Glu Val Pro Ile Asn Phe Ala Met Ala Ala Leu Gly
 260 265 270
 Gly Glu Ile Glu Val Pro Thr Leu Asp Gly Arg Val Asn Leu Lys Ile
 275 280 285
 Pro Gly Glu Thr Gln Thr Gly Lys Leu Phe Arg Met Arg Gly Lys Gly
 290 295 300
 Val Lys Ser Val Arg Gly Gly Ala Gln Gly Asp Leu Leu Cys Arg Val
 305 310 315 320
 Val Val Glu Thr Pro Val Gly Leu Asn Asp Lys Gln Lys Gln Leu Leu
 325 330 335
 Lys Glu Leu Gln Glu Ser Phe Gly Gly Pro Thr Gly Glu Lys Asn Ser
 340 345 350
 Pro Arg Ser Lys Ser Phe Phe Asp Gly Val Lys Lys Phe Phe Asp Asp
 355 360 365
 Leu Thr Arg
 370

<210> 6189

<211> 106

<212> PRT

<213> Enterobacter cloacae

<400> 6189

Arg Gly Ala Ser Gly Gly Ser Trp Ala Lys Val Leu Thr Thr Asp Gln
 1 5 10 15
 Lys Arg Glu Ala Val Met Leu Met Cys Asp Ala Thr Gly Leu Ser Gln
 20 25 30
 Arg Arg Ala Cys Arg Leu Thr Ser Leu Ser Leu Ser Thr Cys Arg Tyr
 35 40 45
 Glu Ala His Arg Pro Ala Ala Asp Ala His Leu Ser Gly Arg Ile Thr
 50 55 60
 Glu Leu Ala Leu Glu Arg Arg Arg Phe Gly Tyr Arg Arg Asn Leu Ala
 65 70 75 80
 Asn Cys Cys Pro Val Lys Gly Phe Met Leu Ile Ile Ser Ala Gly Thr
 85 90 95
 Gly Phe Ile Thr Ser Val Ala Trp Ala
 100 105

<210> 6190

<211> 98

<212> PRT

<213> Enterobacter cloacae

<400> 6190

Cys Leu His Lys Pro His Glu Asp Ile Pro Met Lys Lys Arg Phe Ser

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1           5           10           15
Asp Glu Gln Ile Ile Ser Ile Leu Arg Glu Ala Glu Ala Gly Val Pro
      20           25           30
Ala Arg Glu Leu Cys Arg Lys His Ala Ile Ser Asp Ala Thr Phe Tyr
      35           40           45
Ile Trp Arg Lys Lys Tyr Gly Gly Met Glu Val Pro Glu Val Lys Arg
      50           55           60
Leu Lys Ser Leu Glu Glu Glu Asn Ala Arg Leu Lys Lys Leu Leu Ala
65           70           75           80
Glu Ala Met Leu Asp Lys Glu Ala Leu Gln Val Ala Leu Gly Arg Lys
      85           90           95
Tyr

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<210> 6191
<211> 187
<212> PRT
<213> Enterobacter cloacae

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<220>
<221> UNSURE
<222> (7)

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<400> 6191
Lys Gly Trp Gln Gln Asn Xaa Cys Arg Cys Ser Val Pro Ala Ala Pro
1           5           10           15
Asn Leu Thr Trp Ser Met Asp Phe Val Met Asp Ala Leu Ser Thr Gly
      20           25           30
Arg Arg Ile Lys Cys Leu Thr Cys Val Asp Asp Phe Thr Lys Glu Cys
      35           40           45
Leu Thr Val Thr Val Ala Phe Gly Ile Ser Gly Val Gln Val Thr Arg
      50           55           60
Ile Leu Asp Ser Ile Ala Leu Phe Arg Gly Tyr Pro Ala Thr Ile Arg
65           70           75           80
Thr Asp Gln Gly Pro Glu Phe Thr Cys Arg Ala Leu Asp Gln Trp Ala
      85           90           95
Phe Glu His Gly Val Glu Leu Arg Leu Ile Gln Pro Gly Lys Pro Thr
      100          105          110
Gln Asn Gly Phe Ile Glu Ser Phe Asn Gly Arg Phe Arg Asp Glu Cys
      115          120          125
Leu Asn Glu His Trp Phe Ser Asp Ile Val His Ala Arg Lys Ile Ile
      130          135          140
Asn Asp Trp Arg Gln Asp Tyr Asn Glu Cys Arg Pro His Ser Thr Leu
145          150          155          160
Asn Tyr Gln Thr Pro Ser Glu Phe Ala Ala Gly Trp Arg Lys Gly His
      165          170          175
Ser Glu Asn Glu Asp Ser Asp Val Thr Asn
      180          185

```

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<210> 6192
<211> 806
<212> PRT
<213> Enterobacter cloacae

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```

<400> 6192
Gly Thr Gly Asn Trp Leu Gln Asn Cys Asn Val Glu Thr Ser Lys Lys
1           5           10           15
Thr Val Thr Thr His Tyr Pro Asp Tyr Lys Glu Phe Tyr Cys Asn Ser
      20           25           30
Pro Lys Gln Asp Asn Phe Ser Ser Cys Thr Ile Thr Arg Asp Phe Ser
      35           40           45

```

Val Pro Val Tyr Ile Ser Gly Gly Asn Gly Asp Met Ser Met Cys Gly
 50 55 60
 Asp Asn Cys Val Arg Ile Trp Phe Gly Arg Arg Asp Asp Asn Tyr Trp
 65 70 75 80
 Ser Asp Gly Val Tyr Asp Asn Glu Leu Thr Leu Lys Phe His Pro Asp
 85 90 95
 Ala Lys Leu Ala Ser Ala Lys Ile Val Asn Ala Glu Trp Asp Asp His
 100 105 110
 Met Arg Val Thr Leu Asp Gly Thr Gln Ile Phe Ala His Ile Asp Gly
 115 120 125
 Ala Tyr Arg Glu Ser Asp Tyr Pro Ala Pro Lys Gly Ser Trp Glu Leu
 130 135 140
 Lys Lys Ser Trp Lys Leu Asp Lys Val Tyr Asp Val Thr Asp Lys Val
 145 150 155 160
 Arg Lys Ser Val Tyr Glu Glu Pro Asp Arg Glu Val Thr Met Ala Ser
 165 170 175
 Arg Val Trp Val Gly Gly Lys Gly Glu Gly Tyr Phe Glu Val Glu Leu
 180 185 190
 Thr Phe Glu Asn Met Lys Leu Glu Asp Lys His Val Gln Glu Pro Ala
 195 200 205
 Gly Cys Tyr Asp Ala Val Gln Ala Pro Asn Thr Phe Cys Arg Phe Asp
 210 215 220
 Arg Phe Lys Asp Met Asp Val Gly Thr Lys Arg Leu Pro Glu Ser Val
 225 230 235 240
 Leu Ser Leu Ala Lys Pro Leu Tyr Glu Gly Asp Lys Gly Phe Leu Thr
 245 250 255
 Trp Lys Thr Asn Leu Glu Gly Tyr Phe Cys Asp Pro Leu Ala Lys Asp
 260 265 270
 Lys Ile Cys Ser Tyr Asp Ala Ser Gly Lys Ile Met Lys Asp Ala Asn
 275 280 285
 Gly Lys Asp Leu Cys Tyr Asn Tyr Glu Glu Ile Lys Ser Met Pro Asp
 290 295 300
 Ala Cys Ser Ala Tyr Lys Asn Asp Ala Ala Cys Val Leu Asp Lys Gln
 305 310 315 320
 Thr Cys Ala Glu Gly Trp Phe Asp Glu Gly Thr Asn Ser Cys Tyr Met
 325 330 335
 Tyr Glu Gln Lys Tyr Thr Cys Asp Arg Gly Lys Asp Val Val Arg Glu
 340 345 350
 Val Glu Ser Ser Thr Asn Ala Cys Val Gly Met Ile Pro Cys Ser Gly
 355 360 365
 Gly Thr Cys Glu Thr Gly Pro Lys Glu Glu Asn Asn Asp Phe Gly Lys
 370 375 380
 Val Ala Ala Tyr Ser Asn Met Val Gln Tyr Met Gln Gly Glu Ala Lys
 385 390 395 400
 Cys Glu Asp Pro Asn Asp Ala Asn Ser Cys Ser Val Phe Glu Gly Lys
 405 410 415
 Pro Glu Trp Cys Gly Arg Ser Val Gly Phe Val Asn Gly Leu Ala Lys
 420 425 430
 Thr Asp Cys Cys Glu Ala Pro Gln Gly Thr Ala Gly Ala Leu Glu Gly
 435 440 445
 Ile Met Leu Ala Gly Ser Met Ile Arg Asn Thr Asn Trp Thr Arg Val
 450 455 460
 Asn Ala Gln Leu Ile Lys Trp Thr Gly Gly Asp Thr Gly Thr Trp Ala
 465 470 475 480
 Ser Met Ser Asn Ala Val Gly Glu Trp Thr Ala Ser Ala Gly Lys Thr
 485 490 495
 Val Gly Gln Met Trp Asn Asn Val Thr Ser Ser Leu Thr Ser Val Tyr
 500 505 510
 Glu Asn Val Ala Gly Asn Leu Ser Arg Ala Val Gly Ser Ser Ala Thr
 515 520 525
 Ser Gly Gly Ala Gly Gly Ala Gly Gln Leu Ala Gln Glu Thr Met Ser

530 535 540
 Ser Phe Gly Ile Gly Gln Leu Lys Gln Met Ala Met Lys Lys Ala Tyr
 545 550 555 560
 Glu Leu Leu Pro Asp Thr Val Arg Asp Phe Val Phe Lys Asn Val Ala
 565 570 575
 Thr Thr Gly Gly Glu Val Val Phe Ser Ala Ala Val Gln Asn Phe Met
 580 585 590
 Leu Ala Leu Asn Val Ile Gly Trp Ile Tyr Thr Ala Tyr Gln Val Thr
 595 600 605
 Lys Met Leu Leu Glu Met Leu Val Ala Cys Asp Gln Lys Glu Met Glu
 610 615 620
 Ala Ser Ile His Lys Asn Gln Lys Ser Cys Phe Thr Leu Asp Thr Glu
 625 630 635 640
 Arg Cys Val Lys Tyr Leu Asn Val Gly Phe Thr Lys Lys Cys Val Lys
 645 650 655
 Lys Ala Thr Asp Met Cys Cys Tyr Asn Ser Met Leu Ser Arg Val Ile
 660 665 670
 Met Gln Gln Ala Tyr Pro Gln Leu Gly Ile Asp Pro Val Ala Ser Asn
 675 680 685
 Cys Val Gly Leu Ser Ile Lys Gln Ile Gln Gln Leu Asp Phe Asp Lys
 690 695 700
 Ile Asp Leu Thr Glu Trp Ile Asn Asp Ala Val Gln Val Gly Glu Val
 705 710 715 720
 Pro Asp Gln Tyr Ser Lys Phe Ser Glu Glu Ser Ile Val Glu Asn Leu
 725 730 735
 Pro Phe Gln Asn Glu Asn Tyr Gln Leu Pro Ser Glu Arg Thr Lys Glu
 740 745 750
 Ala Met Gly Gly Glu Glu Asn Met Ile Lys Ala Arg Gln Glu Asn Ala
 755 760 765
 Gln Ala Ile Lys Glu Glu Asn Val Asp Cys Ser Tyr Leu Pro Arg Pro
 770 775 780
 Ala Ile Cys Glu Val Gly Ser Thr Thr Leu Asp Pro Val Thr Gly Lys
 785 790 795 800
 Gln Leu Pro Lys Tyr
 805

<210> 6193
 <211> 560
 <212> PRT
 <213> Enterobacter cloacae

<400> 6193
 Leu Leu Lys Arg Ser Asn Glu Val Glu Met Gly Lys Pro Thr Glu Glu
 1 5 10 15
 Gln Arg Pro Val Ile Glu Asn Ala Ser Ala Asn Asn Met Val Ile Ala
 20 25 30
 Ala Pro Gly Ser Gly Lys Ser Phe Thr Met Ile Glu Ala Val Ile Ser
 35 40 45
 Ile Leu Lys Lys Tyr Pro Tyr Ala Arg Ile Gly Met Val Thr Phe Thr
 50 55 60
 Arg Ala Ala Thr Asn Ala Leu Ala Ala Lys Leu Gln Lys Arg Leu Ser
 65 70 75 80
 Lys Lys Asp Leu Asp Arg Val Leu Val Asp Thr Phe His Gly Leu Val
 85 90 95
 Lys Lys Gln Leu Asp Met Ile Arg Trp Pro Gly Lys Met Leu Ile Gly
 100 105 110
 Pro Ala Gln Arg Ser Val Ile His Arg Ala Leu Lys Glu Ser Gly Val
 115 120 125
 Thr Met Lys Phe Ala Glu Ala Glu Phe Val Ile Asp Ala Ile Gly Arg
 130 135 140
 Glu Met Asp Thr Asp Val Ile Ser Val Arg His Asn Arg Gln Gln Ile

145 150 155 160
 His Leu Phe Asn Thr Tyr Gln Ala Leu Cys Gln Lys Asp His Val Ala
 165 170 175
 Asp Leu Asn Ala Leu Ser Lys Phe Val Val Gly Gln Met His Ser Gly
 180 185 190
 Lys Met Arg Thr Leu Asp Leu Thr His Leu Ile Val Asp Glu Val Gln
 195 200 205
 Asp Thr Asp Ser Ile Gln Phe Ser Trp Ile Ala Leu His Thr Arg Ala
 210 215 220
 Gly Val Tyr Thr Ser Ile Val Gly Asp Asp Asp Gln Ala Ile Tyr Ser
 225 230 235 240
 Phe Arg Ser Ser Gly Gly Val Lys Ile Phe Gln Gln Phe Glu Lys His
 245 250 255
 Phe Arg Pro Asn Ile Phe Tyr Leu Asn Thr Cys Phe Arg Cys Glu Pro
 260 265 270
 Glu Ile Leu Glu Val Ala Gly Ala Leu Ile Gly Lys Asn Val Tyr Arg
 275 280 285
 Tyr Ala Lys Glu Leu Arg Ser Ala Lys Lys Gly Gly Gly Lys Val Thr
 290 295 300
 Phe Arg Ser Tyr Val Asp Met Glu Glu Gln Ile Gln Gly Ile Leu Ser
 305 310 315 320
 Leu Ile Asn Gln Asp Pro His Gly Trp Ala Ile Leu Ser Arg Asn Asn
 325 330 335
 Ala His Leu Asp Glu Leu Glu Ser Leu Ile Glu Gln Pro Val Ile Arg
 340 345 350
 Tyr Gly Gly Lys Ser Phe Trp Asp Glu Lys Glu Thr Ser Asp Val Leu
 355 360 365
 Ser Leu Met Ala Phe Phe Arg Gln Ser Asn Asp Pro Arg Leu Met Lys
 370 375 380
 Arg Val Leu Ala Leu Phe Gly Glu Gln Glu Ser Val Leu Asp Glu Val
 385 390 395 400
 Ala Leu Ser Met Arg Gly Arg Lys Val Thr Phe Gly Asp Leu Ala Ile
 405 410 415
 Pro Glu Asp Ser Ser Leu Glu Thr Lys Thr Leu His Ser Asn Phe Val
 420 425 430
 Arg Phe Thr Gln Glu Ser Ser Asp Lys Val Glu Ile Ala Lys Arg Phe
 435 440 445
 Ala Asn Leu Thr Lys Trp Met Glu Ser Ser Ser Ile Lys Met Arg Ser
 450 455 460
 Asn Lys Gly Thr Ala Thr Leu Thr Lys Ile Ala Leu Asp Thr Cys Lys
 465 470 475 480
 Gln Trp Ala Glu Lys Thr Gly Trp Met Asn Met Ile Asn Arg Ala Ala
 485 490 495
 Ala Met Ser Leu Gly Pro Arg Lys Lys Asp Glu Glu Tyr Ser Pro Glu
 500 505 510
 Lys Val Val Leu Ser Thr Leu His Gly Ser Lys Gly Leu Glu Trp Asn
 515 520 525
 Lys Val Ile Ile Met Ser Cys Asn Ala Asp Gln Ile Pro Ser Lys Arg
 530 535 540
 Ser Val Gly Glu Glu Ala Ile Lys Lys Glu Arg Arg Leu Leu Tyr Val
 545 550 555 560

<210> 6194

<211> 107

<212> PRT

<213> Enterobacter cloacae

<400> 6194

Leu Lys Val Tyr Leu Met Lys Lys Thr Thr Ser Arg Lys Ala Ala Arg
 1 5 10 15
 Arg Pro Ala Lys His Thr Asp Leu Tyr Arg Gln Ile Thr Asp Arg Ile

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<210> 6195
<211> 300
<212> PRT
<213> Enterobacter cloacae
```

Met 1	Ser	Arg	Phe	Ser 5	Lys	Gln	Leu	Cys	Lys 10	Gln	Leu	Val	Thr		Leu 15	Ala
Arg	Gln	Gly	Arg	Gly 20	Ser	Tyr	Lys	Thr	Val 25	Ala	Asp	Arg	Ser	Arg	Ile	
Ala	Glu	Arg	Phe	Ser 35	Glu	Arg	Leu	Ser	Glu 40	Leu	Asn	Ile	Gln	Ile	Arg	
Asp	Val	Lys	His	Ile 50	Lys	Thr	Ser	His	Ile 55	Glu	Lys	Tyr	Ile	Glu	Ser	
Arg	Lys	Ala	Asp	Asn 65	Leu	Ser	Leu	Arg	Thr 70	Leu	Gln	Asn	Glu	Met	Ser	
Ala	Ile	Arg	Ser	Val 85	Leu	Leu	Ser	Ala	Gly 90	Arg	Asn	Lys	Leu	Ala	Asp	
Pro	Ser	His	Ile	Asn 100	Leu	Ser	Asn	Gln	Ala 105	Leu	Gly	Ile	Ser	Gly	Ala	
Asn	Arg	Asp	Gly	Thr 115	Lys	Leu	Pro	Ile	Thr 120	Asp	Glu	Lys	Leu	Asn	Ala	
Val	Val	Ser	Phe	Ala 130	Gln	Arg	Lys	Asp	Glu 135	Gly	Val	Ala	Leu	Ala	Val	
Gln	Leu	Ser	Arg	Tyr 145	Leu	Gly	Leu	Arg	Thr 150	Gln	Lys	Thr	Val	Gln	Ser	
Ala	Lys	Ser	Leu	Lys 165	Thr	Trp	Arg	Gln	Ala 170	Leu	Ile	Asn	Asn	His	Glu	
Arg	Val	Arg	Val	Val 180	Phe	Gly	Thr	Lys	Gly 185	Gly	Arg	Pro	Arg	Glu	Thr	
Thr	Val	Phe	Asn	Arg 195	Glu	Lys	Val	Leu	Ser 200	Ile	Leu	Asp	Lys	Ala	Ile	
His	Tyr	Val	Ser	Glu 210	His	Asn	Gly	Lys	Leu 215	Ile	Asp	Asn	Pro	Ser	Leu	
His	Ser	Ala	Ile	Asp 225	Arg	Tyr	Arg	Asn	Ile 230	Val	Arg	Glu	Ala	Gly	Met	
Asn	Gly	Lys	Asn	Ala 245	Pro	His	Ser	Leu	Arg 250	Tyr	Ala	Tyr	Ser	Arg	Asp	
Ala	Val	Asn	His	His 260	Ile	Lys	Asn	Gly	Met 265	Ser	Arg	Asp	Glu	Ala	Glu	
Ala	Leu	Val	Ser	Met 275	Asp	Leu	Gly	His	Gly 280	Asp	Gly	Arg	Gly	Arg	Tyr	
Ile	Lys	Gln	Val	Tyr 290	Phe	Arg	Gly	Glu	Ala 295	Glu						

```
<210> 6196
<211> 243
<212> PRT
<213> Enterobacter cloacae
```

<400> 6196

Leu Thr Gly Arg Arg Ser Gln Ala Gly Gly Gln Val Arg Lys Gly Glu
 1 5 10 15
 Lys Ala Thr Leu Ala Val Val Tyr Lys Asp Trp Thr Lys Gln Ala Glu
 20 25 30
 Asp Arg Glu Gly Asn Arg Leu Tyr Asp Ser Asp Gly Lys Pro Leu Thr
 35 40 45
 Glu Thr Val Pro Met Leu Lys Pro Leu Gln Leu Phe Asn Ala Glu Gln
 50 55 60
 Cys Glu Gly Leu Pro Ala Glu Val Ala Ala Ser Pro Glu Gln Pro Pro
 65 70 75 80
 Ala Val Asp Glu Asp Gly Ile Leu Ser Pro Asp Val Met Asp Arg Val
 85 90 95
 Leu Arg Met Val Asn Ala Thr Gly Val Lys His Arg Met Leu Pro Gln
 100 105 110
 Asn Arg Ala Tyr Tyr Arg Pro Leu Thr Asp Glu Ile Val Met Pro Val
 115 120 125
 Ala Gly Gln Phe Phe Thr Glu Ala Asp Trp Trp Ser Thr Leu Leu His
 130 135 140
 Glu Leu Val His Ser Thr Gly His Thr Lys Arg Leu Asn Arg Glu Gly
 145 150 155 160
 Ile Thr Ser Ser Ser Arg Gln Phe Gly Asp Pro Val Tyr Ala Phe Glu
 165 170 175
 Glu Leu Ile Ala Glu Met Gly Ser Ala Phe Leu Cys Ala Gln Leu Gly
 180 185 190
 Val Ser Gly Glu Val Gln His Asp Ser Tyr Val Asp His Trp Leu Lys
 195 200 205
 Val Leu Lys Ser Asp Lys Lys Ala Leu Phe Arg Ala Cys Arg His Ala
 210 215 220
 Arg Glu Ala Ser Glu Tyr Leu Leu Ala Leu Pro Gly Arg Gln Thr Val
 225 230 235 240
 Ala Ala

<210> 6197

<211> 64

<212> PRT

<213> Enterobacter cloacae

<400> 6197

Glu Tyr Phe Ala Asp Arg Gln Leu Arg Gly Glu Asp Ile Gln Glu Leu
 1 5 10 15
 Glu His Gln Ser Gly Lys Leu Ala Asp Trp Val Arg Asp Leu Leu Cys
 20 25 30
 Arg Lys Ser Asn Phe Val Val Thr Cys Ala Leu Ala Asn Lys Leu Ala
 35 40 45
 Arg Ile Ala Trp Ala Leu Thr Ala Arg Gln Gln Thr Tyr Val Ala
 50 55 60

<210> 6198

<211> 160

<212> PRT

<213> Enterobacter cloacae

<400> 6198

Arg Asn Asp Ile Asp Phe Gly Leu Glu Leu Ala Thr Thr Ser Ser Thr
 1 5 10 15
 Arg Ser Gly His Gly Leu Pro Leu Val Ala Leu Gly Ala Gly Lys Arg
 20 25 30
 Leu Thr Met Gln Asn Arg Gly Glu Leu Phe His Lys Val Val Val Val

```

      35              40              45
Gln Phe Gln Phe Val His Ala Leu Val Gln Thr Val Val Arg His Tyr
 50              55              60
Arg Arg Asn Cys Gly Glu Gln Thr Asp Cys Gly Arg Asp Gln Cys Phe
65              70              75              80
Cys Asp Thr Arg Cys Asn His Leu Gln Arg Cys Leu Leu His Arg Pro
      85              90              95
Gln Gly Asp Lys Gly Val His Asp Pro Pro His Arg Thr Lys Gln Ala
      100              105              110
Asp Ile Arg Ala Asp Gly Ala Asn Gly Ser Glu Glu Arg Asn Met Arg
      115              120              125
Phe Lys Ile Phe Gln Phe Ala Val His Gly Asp Ala His Arg Thr Arg
      130              135              140
Arg Pro Phe Tyr His Gly Phe Arg Arg Met Ala Val Ser Ala Met
145              150              155              160

```

<210> 6199

<211> 150

<212> PRT

<213> Enterobacter cloacae

<400> 6199

```

Arg Ser Leu Lys Ala Pro Thr Phe Leu Val Leu Pro Gly Cys Lys Val
1      5      10      15
Asn Thr Thr Leu Phe Arg Trp Pro Val Arg Val Tyr Tyr Glu Asp Thr
      20      25      30
Asp Ala Gly Gly Val Val Tyr His Ala Ser Tyr Val Ala Phe Tyr Glu
      35      40      45
Arg Ala Arg Thr Glu Met Leu Arg His His His Phe Ser Gln Gln Val
      50      55      60
Leu Leu Ala Glu Arg Val Ala Phe Val Val Arg Lys Met Thr Leu Glu
65      70      75      80
Tyr Phe Ala Pro Ala Arg Leu Asp Asp Met Leu Glu Val Gln Thr Glu
      85      90      95
Ile Thr Ser Met Arg Gly Thr Ser Leu Val Phe Thr Gln Arg Ile Val
      100      105      110
Asn Ala Glu Asn Thr Val Leu Asn Ser Ala Glu Val Leu Ile Val Cys
      115      120      125
Val Asp Pro Thr Ile Met Lys Pro Arg Ala Leu Pro Lys Ser Ile Val
      130      135      140
Ala Glu Phe Lys Gln
145              150

```

<210> 6200

<211> 376

<212> PRT

<213> Enterobacter cloacae

<400> 6200

```

Leu Ser Leu Phe Asp His Leu Arg Ser Phe Trp Glu Pro Ile Val Ser
1      5      10      15
Lys Ala Thr Glu Gln Asn Asp Lys Leu Lys Arg Ala Ile Ile Val Ser
      20      25      30
Ala Val Leu His Val Phe Leu Phe Ala Ala Leu Ile Trp Ser Ser Phe
      35      40      45
Asp Glu His Leu Asp Ala Ser Gly Gly Asp Gly Gly Ser Ser Ile Asp
      50      55      60
Ala Val Met Val Asp Pro Gly Ala Val Val Gln Asn Tyr Asn Arg Gln
65      70      75      80
Gln Gln Gln Gln Ala Ser Ala Lys Arg Ala Glu Glu Gln Arg Glu Lys
      85      90      95

```

Gln Ala Gln Gln Gln Ala Glu Glu Leu Arg Glu Lys Gln Ala Ala Glu
 100 105 110
 Gln Glu Arg Leu Lys Gln Leu Glu Lys Glu Arg Leu Gln Ala Gln Glu
 115 120 125
 Ala Ala Lys Glu Gln Ala Glu Gln Gln Lys Gln Ala Glu Ala Ala Ala
 130 135 140
 Lys Lys Ala Gln Glu Gln Gln Lys Gln Ala Glu Glu Ala Ala Ala Lys
 145 150 155 160
 Ala Ala Ala Asp Ala Lys Ala Gln Ala Asp Ala Gln Ala Lys Leu Ala
 165 170 175
 Ala Glu Ala Ala Lys Lys Ala Ala Ala Asp Ala Gln Lys Lys Ala Glu
 180 185 190
 Ala Glu Ala Ala Lys Lys Ala Ala Ala Asp Ala Lys Lys Lys Ala Glu
 195 200 205
 Ala Glu Ala Ala Lys Lys Ala Ala Ala Asp Ala Gln Lys Lys Ala Glu
 210 215 220
 Ala Glu Ala Ala Lys Lys Ala Ala Gln Glu Ala Glu Lys Lys Ala Ala
 225 230 235 240
 Ala Asp Ala Ala Lys Lys Ala Ala Ala Ala Glu Lys Ala Ala Ala Glu
 245 250 255
 Lys Ala Ala Ala Glu Lys Ala Ala Ala Glu Lys Lys Ala Ala Ala
 260 265 270
 Glu Lys Ala Ala Ala Asp Lys Lys Ala Ala Ala Glu Lys Ala Ala Ala
 275 280 285
 Lys Lys Ala Ala Ala Glu Lys Ala Ala Ala Ala Gly Val Asp Asp
 290 295 300
 Leu Leu Gly Asp Leu Ser Ser Gly Lys Asn Ala Pro Lys Thr Gly Gly
 305 310 315 320
 Gly Ala Lys Gly Ser Asn Ala Ala Pro Ala Gly Ser Gly Asn Thr Lys
 325 330 335
 Asn Asn Gly Ala Ser Gly Ala Glu Ile Asn Asp Tyr Lys Asn Gln Ile
 340 345 350
 Ala Ala Ala Ile Ala Ser Arg Leu Asn Asp Lys Ser Val Leu His Arg
 355 360 365
 Arg Gly Trp Lys Glu Glu Pro Ser
 370 375

<210> 6201

<211> 505

<212> PRT

<213> Enterobacter cloacae

<400> 6201

Arg Phe Leu Phe Val Pro Leu Thr Leu Gly Met Ala Phe Leu Leu Ala
 1 5 10 15
 Ile Met Glu Thr Val Tyr Val Leu Ser Gly Lys Gln Ile Tyr Lys Asp
 20 25 30
 Met Thr Lys Phe Trp Gly Lys Leu Phe Gly Ile Asn Phe Ala Leu Gly
 35 40 45
 Val Ala Thr Gly Leu Thr Met Glu Phe Gln Phe Gly Thr Asn Trp Ser
 50 55 60
 Tyr Tyr Ser His Tyr Val Gly Asp Ile Phe Gly Ala Pro Leu Ala Ile
 65 70 75 80
 Glu Gly Leu Met Ala Phe Phe Leu Glu Ser Thr Phe Val Gly Leu Phe
 85 90 95
 Phe Phe Gly Trp Asp Arg Leu Gly Lys Val Gln His Met Ala Val Thr
 100 105 110
 Trp Leu Val Ala Leu Gly Ser Asn Leu Ser Ala Leu Trp Ile Leu Val
 115 120 125
 Ala Asn Gly Trp Met Gln Asn Pro Ile Ala Ser Asp Phe Asn Phe Glu
 130 135 140

Thr Met Arg Met Glu Met Val Ser Phe Ala Glu Leu Val Leu Asn Pro
 145 150 155 160
 Val Ala Gln Val Lys Phe Val His Thr Val Ala Ser Gly Tyr Val Cys
 165 170 175
 Gly Ala Met Phe Val Leu Gly Ile Ser Ser Tyr Tyr Met Leu Arg Gly
 180 185 190
 Arg Asp Phe Ala Phe Ala Lys Arg Ser Phe Ala Ile Ala Ala Ser Phe
 195 200 205
 Gly Met Ala Ala Ile Leu Ser Val Ile Val Leu Gly Asp Glu Ser Gly
 210 215 220
 Tyr Glu Met Gly Asp Val Gln Lys Thr Lys Leu Ala Ala Ile Glu Ala
 225 230 235 240
 Glu Trp Glu Thr Gln Pro Ala Pro Ala Phe Thr Leu Phe Gly Val
 245 250 255
 Pro Asp Gln Glu Ala Gln Glu Asn Arg Phe Ala Ile Gln Ile Pro Tyr
 260 265 270
 Ala Leu Gly Ile Ile Ala Thr Arg Ser Val Asp Lys Gln Val Thr Gly
 275 280 285
 Leu Lys Asp Leu Met Val Gln His Glu Glu Arg Ile Arg Asn Gly Met
 290 295 300
 Lys Ala Tyr Ser Leu Leu Glu Gln Leu Arg Ala Gly Ser Thr Asp Gln
 305 310 315 320
 Ala Val Arg Asp Gln Phe Asn Asp Val Lys Lys Asp Leu Gly Tyr Gly
 325 330 335
 Leu Leu Leu Lys Arg Tyr Thr Pro Asn Val Ser Asp Ala Thr Glu Ala
 340 345 350
 Gln Ile Gln Met Ala Thr Lys Asp Ser Ile Pro Arg Val Ala Pro Leu
 355 360 365
 Tyr Phe Ala Phe Arg Ile Met Val Gly Cys Gly Ile Ile Met Leu Leu
 370 375 380
 Ile Ile Ala Ala Ser Phe Trp Ser Val Ile Arg Asn Arg Ile Gly Glu
 385 390 395 400
 Lys Lys Trp Leu Leu Arg Thr Ala Leu Tyr Gly Ile Pro Leu Pro Trp
 405 410 415
 Ile Ala Ile Glu Ser Gly Trp Phe Val Ala Glu Tyr Gly Arg Gln Pro
 420 425 430
 Trp Ala Ile Gly Glu Val Leu Pro Thr Ala Val Ala Asn Ser Ser Leu
 435 440 445
 Thr Ala Gly Asp Leu Ile Phe Ser Met Leu Leu Ile Cys Gly Leu Tyr
 450 455 460
 Thr Leu Phe Leu Val Ala Glu Leu Phe Leu Met Phe Lys Phe Ala Arg
 465 470 475 480
 Leu Gly Pro Ser Ser Leu Lys Thr Gly Arg Tyr His Tyr Glu Gln Ser
 485 490 495
 Val Ala Thr Thr Gln Pro Ala Arg
 500 505

<210> 6202

<211> 385

<212> PRT

<213> Enterobacter cloacae

<400> 6202

Asp Arg Ser His Gln Met Ile Asp Tyr Glu Val Leu Arg Phe Ile Trp
 1 5 10 15
 Trp Leu Leu Ile Gly Val Leu Leu Ile Gly Phe Ala Val Thr Asp Gly
 20 25 30
 Phe Asp Met Gly Val Gly Met Leu Thr Arg Phe Leu Gly Arg Asn Asp
 35 40 45
 Thr Glu Arg Arg Ile Met Ile Asn Ser Ile Ala Pro His Trp Asp Gly
 50 55 60

Asn Gln Val Trp Leu Ile Thr Ala Gly Gly Ala Leu Phe Ala Ala Trp
 65 70 75 80
 Pro Met Val Tyr Ala Ala Ala Phe Ser Gly Phe Tyr Val Ala Met Ile
 85 90 95
 Leu Val Leu Ala Ser Leu Phe Phe Arg Pro Val Gly Phe Asp Tyr Arg
 100 105 110
 Ser Lys Ile Glu Asp Thr Arg Trp Arg Asn Met Trp Asp Trp Gly Ile
 115 120 125
 Phe Ile Gly Ser Phe Val Pro Pro Leu Val Ile Gly Val Ala Phe Gly
 130 135 140
 Asn Leu Leu Gln Gly Val Pro Phe His Val Asp Glu Tyr Met Arg Leu
 145 150 155 160
 Phe Tyr Thr Gly Asn Phe Phe Gln Leu Leu Asn Pro Phe Gly Leu Leu
 165 170 175
 Ala Gly Val Val Ser Val Ala Met Ile Ile Thr Gln Gly Ala Thr Tyr
 180 185 190
 Leu Gln Met Arg Thr Val Gly Glu Leu His Leu Arg Ser Arg Ala Thr
 195 200 205
 Ala Gln Val Ala Ala Leu Val Thr Leu Val Cys Phe Ala Leu Ala Gly
 210 215 220
 Val Trp Val Val Tyr Gly Ile Asp Gly Tyr Val Val Thr Ser Ala Ile
 225 230 235 240
 Asn His Thr Ala Pro Ser Asn Pro Leu Thr Lys Glu Val Ala Arg Gln
 245 250 255
 Ala Gly Ala Trp Leu Val Asn Phe Asn Asn Thr Pro Ala Leu Trp Ala
 260 265 270
 Ile Pro Ala Leu Gly Val Leu Leu Pro Leu Leu Thr Val Leu Thr Ser
 275 280 285
 Arg Leu Glu Lys Gly Ala Leu Ala Phe Val Phe Ser Ser Leu Thr Leu
 290 295 300
 Ala Cys Ile Ile Leu Thr Ala Gly Ile Ala Met Phe Pro Phe Val Met
 305 310 315 320
 Pro Ser Ser Thr Met Met Asn Ala Ser Leu Thr Met Trp Asp Ala Thr
 325 330 335
 Ser Ser Gln Leu Thr Leu Asn Leu Met Thr Tyr Val Ala Cys Val Phe
 340 345 350
 Val Pro Ile Ile Leu Leu Tyr Thr Thr Trp Cys Tyr Trp Lys Met Phe
 355 360 365
 Gly Arg Ile Thr Lys Glu His Ile Glu Ser Asn Thr His Ser Met Tyr
 370 375 380

385

<210> 6203

<211> 101

<212> PRT

<213> Enterobacter cloacae

<400> 6203

Arg Lys Ala Leu Met Asn Ile Ile Ala Thr Leu Tyr Ala Val Met Asp
 1 5 10 15
 Lys Arg Pro Leu Arg Ala Leu Ser Leu Ile Met Ala Leu Leu Leu Ala
 20 25 30
 Gly Cys Ile Phe Trp Asp Pro Ser Arg Phe Ala Ala Lys Thr Ser Glu
 35 40 45
 Leu Glu Ile Trp His Gly Phe Leu Ile Met Trp Ala Val Cys Ala Gly
 50 55 60
 Val Ile His Gly Val Gly Phe Arg Pro Lys Ala Leu His Trp Gln Gly
 65 70 75 80
 Ile Phe Cys Pro Leu Ile Ala Asp Leu Val Leu Leu Ala Gly Leu Ile
 85 90 95

Phe Phe Phe Phe
100

<210> 6204

<211> 232

<212> PRT

<213> Enterobacter cloacae

<400> 6204

Ala	Val	Thr	Asp	Met	Asn	Ile	Leu	Asp	Leu	Phe	Leu	Lys	Ala	Ser	Leu
1				5					10					15	
Leu	Val	Lys	Leu	Ile	Met	Leu	Ile	Leu	Ile	Gly	Phe	Ser	Ile	Ala	Ser
			20					25					30		
Trp	Ala	Ile	Ile	Ile	Gln	Arg	Thr	Arg	Ile	Leu	Asn	Ala	Ala	Gly	Arg
		35					40					45			
Glu	Ala	Glu	Ala	Phe	Glu	Asp	Lys	Phe	Trp	Ser	Gly	Ile	Glu	Leu	Ser
	50					55				60					
Arg	Leu	Tyr	Gln	Glu	Ser	Gln	Gly	Arg	Arg	Asp	Asn	Leu	Ser	Gly	Ser
65					70					75				80	
Glu	Gln	Ile	Phe	Tyr	Ser	Gly	Phe	Lys	Glu	Phe	Ala	Arg	Leu	His	Arg
			85					90					95		
Ala	Asn	Ser	His	Ala	Pro	Glu	Ala	Val	Val	Glu	Gly	Ala	Ser	Arg	Ala
			100					105					110		
Met	Arg	Ile	Ser	Met	Asn	Arg	Glu	Leu	Glu	Asn	Leu	Glu	Thr	His	Ile
		115					120					125			
Pro	Phe	Leu	Gly	Thr	Val	Gly	Ser	Ile	Ser	Pro	Tyr	Ile	Gly	Leu	Phe
	130					135					140				
Gly	Thr	Val	Trp	Gly	Ile	Met	His	Ala	Phe	Ile	Ala	Leu	Gly	Ala	Val
145					150					155					160
Lys	Gln	Ala	Thr	Leu	Gln	Met	Val	Ala	Pro	Gly	Ile	Ala	Glu	Ala	Leu
			165					170						175	
Ile	Ala	Thr	Ala	Ile	Gly	Leu	Phe	Ala	Ala	Ile	Pro	Ala	Val	Met	Ala
		180					185						190		
Tyr	Asn	Arg	Leu	Asn	Gln	Arg	Val	Asn	Lys	Leu	Glu	Leu	Asn	Tyr	Asp
	195					200					205				
Asn	Phe	Met	Glu	Glu	Phe	Thr	Ala	Ile	Leu	His	Arg	Gln	Ala	Phe	Thr
	210					215					220				
Ser	Thr	Glu	Ser	Asn	Lys	Gly									
225					230										

<210> 6205

<211> 144

<212> PRT

<213> Enterobacter cloacae

<400> 6205

Thr	Met	Ala	Arg	Ser	Arg	Gly	Arg	Gly	Arg	Arg	Glu	Leu	Lys	Ser	Glu
1				5					10					15	
Ile	Asn	Ile	Val	Pro	Leu	Leu	Asp	Val	Leu	Leu	Val	Leu	Leu	Leu	Ile
			20					25					30		
Phe	Met	Ala	Thr	Ala	Pro	Ile	Ile	Thr	Gln	Ser	Val	Glu	Val	Asp	Leu
	35						40					45			
Pro	Asp	Ala	Thr	Glu	Ser	Gln	Ala	Val	Ser	Thr	Asn	Asp	Asp	Pro	Pro
	50					55					60				
Val	Ile	Ile	Glu	Val	Ser	Gly	Val	Gly	Gln	Tyr	Ser	Val	Val	Val	Glu
65					70				75					80	
Lys	Asp	Arg	Met	Asp	Gln	Leu	Pro	Pro	Glu	Gln	Val	Ile	Ala	Glu	Ala
			85					90						95	
Gln	Arg	Arg	Leu	Glu	Ser	Asn	Pro	Lys	Thr	Val	Phe	Leu	Ile	Gly	Gly
			100				105						110		
Ala	Lys	Asp	Val	Pro	Tyr	Asp	Glu	Ile	Ile	Lys	Ala	Leu	Asn	Leu	Leu

115 120 125
 His Ser Ala Gly Val Lys Ser Val Gly Leu Met Thr Gln Pro Ile
 130 135 140

<210> 6206

<211> 301

<212> PRT

<213> Enterobacter cloacae

<400> 6206

Leu Thr Gln Tyr His Val Ile Arg Asp Pro Arg Glu His Ile Leu Asn
 1 5 10 15
 Arg Leu Pro Ser Ser Ala Ser Ala Leu Ala Cys Thr Ala His Ala Leu
 20 25 30
 Asn Leu Ile Glu Lys Arg Thr Leu Asp His Glu Glu Met Lys Gln Leu
 35 40 45
 Asn Arg Glu Val Ile Asp Tyr Phe Lys Glu His Val Asn Pro Gly Phe
 50 55 60
 Leu Glu Tyr Arg Lys Ser Val Thr Ala Gly Gly Asp Tyr Gly Ala Val
 65 70 75 80
 Glu Trp Gln Ala Gly Ser Leu Asn Thr Leu Val Asp Thr Gln Gly Gln
 85 90 95
 Glu Phe Ile Asp Cys Leu Gly Gly Phe Gly Ile Phe Asn Val Gly His
 100 105 110
 Arg Asn Pro Val Val Val Ser Ala Val Gln Asn Gln Leu Ala Lys Gln
 115 120 125
 Pro Leu His Ser Gln Glu Leu Leu Asp Pro Leu Arg Ala Met Leu Ala
 130 135 140
 Lys Thr Leu Ala Ala Leu Thr Pro Gly Lys Leu Lys Tyr Ser Phe Phe
 145 150 155 160
 Ser Asn Ser Gly Thr Glu Ser Val Glu Ala Ala Ile Lys Leu Ala Lys
 165 170 175
 Ala Tyr Gln Ser Pro Arg Gly Lys Phe Thr Phe Ile Ala Thr Ser Gly
 180 185 190
 Ala Phe His Gly Lys Ser Leu Gly Ala Leu Ser Ala Thr Ala Lys Ser
 195 200 205
 Thr Phe Arg Lys Pro Phe Met Pro Leu Leu Pro Gly Phe Arg His Val
 210 215 220
 Pro Phe Gly Asp Ile Asn Ala Met Arg Thr Met Leu Gly Glu Cys Arg
 225 230 235 240
 Lys Thr Gly Asp Asp Val Ala Ala Val Ile Leu Glu Pro Ile Gln Gly
 245 250 255
 Glu Gly Gly Val Ile Leu Pro Pro Gln Gly Tyr Leu Pro Ala Val Arg
 260 265 270
 Gln Leu Cys Asp Glu Phe Gly Ala Leu Leu Ile Leu Asp Glu Val Gln
 275 280 285
 Thr Arg Asp Gly Ala His Arg Gln Asp Val Arg Leu
 290 295 300

<210> 6207

<211> 192

<212> PRT

<213> Enterobacter cloacae

<400> 6207

Ser Ser Thr Lys Cys Lys Pro Gly Met Gly Arg Thr Gly Lys Met Phe
 1 5 10 15
 Ala Cys Glu His Glu Asn Val Gln Pro Asp Ile Leu Cys Leu Ala Lys
 20 25 30
 Ala Leu Gly Gly Gly Val Met Pro Ile Gly Ala Thr Val Ala Thr Glu
 35 40 45

Glu Val Phe Ser Val Leu Phe Asp Asn Pro Phe Leu His Thr Thr Thr
 50 55 60
 Phe Gly Gly Asn Pro Leu Ala Cys Ala Ala Ala Leu Ala Thr Ile Asn
 65 70 75 80
 Val Leu Leu Glu Gln Asn Leu Pro Ala Gln Ala Glu Gln Lys Gly Asp
 85 90 95
 Met Leu Leu Asp Gly Phe Arg Gln Leu Gly Arg Glu Tyr Pro Asp Leu
 100 105 110
 Val Gln Asp Ala Arg Gly Lys Gly Met Leu Met Ala Ile Glu Phe Val
 115 120 125
 Asp Asn Glu Thr Gly Tyr Ser Phe Ala Ser Glu Met Phe Arg Gln Arg
 130 135 140
 Val Leu Val Ala Gly Thr Leu Asn Asn Ser Lys Thr Ile Arg Ile Glu
 145 150 155 160
 Pro Pro Leu Thr Leu Thr Ile Glu Gln Cys Glu Gln Val Leu Lys Ala
 165 170 175
 Ala Arg Lys Ala Leu Ala Ala Leu Arg Val Ser Val Glu Glu Ala
 180 185 190

<210> 6208

<211> 202

<212> PRT

<213> Enterobacter cloacae

<400> 6208

Pro Met Thr Asp Lys Val Asn Ile Met Thr Asp Ala Gly Ala Asp Val
 1 5 10 15
 Ala Gln Val Ser Leu Ala Val Ala Asn Arg Ile Arg Ser Trp Arg Lys
 20 25 30
 Glu Lys Lys Leu Ser Leu Asp Glu Leu Ser Arg Arg Ala Ser Val Ser
 35 40 45
 Lys Gly Met Leu Val Glu Ile Glu Lys Gly Ala Ala Asn Pro Ser Ile
 50 55 60
 Ala Ile Leu Cys Lys Leu Ala Ala Ala Leu Gly Val Ser Val Ala Asp
 65 70 75 80
 Ile Val Asn Val Ser Ser Glu Pro Gln Ile His Ile Ile Arg Glu Glu
 85 90 95
 Ala Ile Pro Val Leu Trp Gln Gly Ala Gln Gly Gly Tyr Ala Arg Leu
 100 105 110
 Leu Ala Gly Thr Ala Gly Pro Asp Met Ile Glu Leu Trp Gln Trp Glu
 115 120 125
 Met His Pro Gly Glu Thr Phe Thr Ser Pro Gly His Pro Ala Gly Thr
 130 135 140
 Phe Glu Leu Leu His Val Asn Glu Gly Met Leu Thr Leu Thr Val Asp
 145 150 155 160
 Glu Thr Val Thr Gln Val Ala Ala Gly Ala Ser Ala Val Ala Lys Thr
 165 170 175
 Glu Ala Ala His Gly Tyr Ala Asn Glu Ser Asp Thr Val Leu Arg Phe
 180 185 190
 Thr Met Thr Val Ala Glu Phe His Arg
 195 200

<210> 6209

<211> 138

<212> PRT

<213> Enterobacter cloacae

<400> 6209

Ile Leu Asn Ser Ser Glu Gln Thr Val Asn Leu Gly Gln Tyr Arg Thr
 1 5 10 15
 Ala Lys Phe Thr Lys Val Gly Asp Thr Thr Ser Asn Ile Pro Phe Thr

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<210> 6210
<211> 204
<212> PRT
<213> Enterobacter cloacae
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<210> 6211
<211> 862
<212> PRT
<213> Enterobacter cloacae
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<400> 6211																
Arg	Gln	Pro	Val	Ser	Arg	Asp	Arg	Ala	Met	Asn	Thr	Gln	Trp	Arg	Tyr	
1				5					10					15		
Cys	Pro	Val	Ala	Leu	Ala	Leu	Met	Ala	Thr	Leu	Trp	Pro	Leu	Ala	Gly	
			20					25					30			
Trp	Gly	Glu	Ser	Tyr	Phe	Asn	Pro	Ala	Phe	Leu	Ser	Asp	Asp	Thr	Ala	
		35					40					45				

Asn Val Ala Asp Leu Ser Arg Phe Glu Lys Gly His Gln Gln Ala Pro
 50 55 60
 Gly Val Tyr Arg Val Asp Ile Trp Arg Asn Asp Glu Phe Ile Gly Thr
 65 70 75 80
 Gln Asp Val Arg Phe Glu Gln Ala Asp Asn Thr Pro Pro Val Ala Gly
 85 90 95
 Gly Leu Ser Pro Cys Ile Thr Arg Ala Met Leu Asp Arg Phe Gly Val
 100 105 110
 Asn Ile Ala Ala Phe Pro Glu Leu Ser Asn Val Gln Gly Asp Thr Cys
 115 120 125
 Val Pro Leu Thr Thr Ala Ile Pro Gly Ser Glu Ala Ala Phe Asn Phe
 130 135 140
 Ala Ser Leu Arg Leu Asn Val Ser Leu Pro Gln Val Ala Met Gln Asn
 145 150 155 160
 Ser Ala Arg Gly Tyr Ile Pro Pro Glu Gln Trp Asp Glu Gly Ile Pro
 165 170 175
 Ala Ala Leu Leu Asn Tyr Ser Phe Thr Gly Asn Arg Gly Ser Asp Asp
 180 185 190
 Asp Ser Tyr Tyr Leu Asn Leu Gln Ser Gly Leu Asn Tyr Gly Ala Trp
 195 200 205
 Arg Leu Arg Asn Asn Gly Ala Trp Arg Tyr Thr Glu Ser Asn Gly Gln
 210 215 220
 Arg His Ser Ser Trp Gln Asn Ile Gly Thr Trp Ala Gln Arg Thr Ile
 225 230 235 240
 Ile Pro Leu Lys Ser Glu Leu Val Leu Gly Asp Ser Asn Thr Gly Asn
 245 250 255
 Asp Val Phe Asp Ser Val Gly Phe Arg Gly Gly Arg Leu Tyr Ser Ser
 260 265 270
 Asp Ser Met Tyr Pro Asp Ser Leu Gln Gly Tyr Ala Pro Thr Val Arg
 275 280 285
 Gly Ile Ala Arg Thr Pro Ala Lys Val Val Ile Arg Gln Asn Gly Tyr
 290 295 300
 Val Ile Tyr Gln Ser Tyr Val Gln Pro Gly Ala Phe Ala Ile Thr Asp
 305 310 315 320
 Leu Asn Pro Thr Ser Ser Ser Gly Asp Leu Glu Val Thr Val Glu Glu
 325 330 335
 Lys Asp Gly Ser Gln Gln Arg Tyr Thr Val Pro Tyr Ser Thr Val Pro
 340 345 350
 Leu Leu Gln Arg Glu Gly Arg Trp Lys Tyr Asp Leu Val Ala Gly Asp
 355 360 365
 Tyr Arg Ser Gly Asn Ser Glu Gln Asp Thr Pro Phe Phe Thr Gln Gly
 370 375 380
 Thr Met Ile Ala Gly Leu Ala Asp Gly Tyr Thr Leu Tyr Gly Gly Thr
 385 390 395 400
 Gln Leu Ala Ser Arg Tyr Thr Ala Ile Ala Ile Gly Ala Gly Lys Asn
 405 410 415
 Leu Gly Asp Trp Gly Ala Val Ser Leu Asp Leu Thr His Ala Arg Ser
 420 425 430
 Gln Leu Ala Asp Asp Ser Arg His Glu Gly Gln Ser Leu Arg Phe Leu
 435 440 445
 Tyr Ala Lys Ser Leu Asn Gly Phe Gly Thr Asn Phe Gln Leu Leu Gly
 450 455 460
 Tyr Arg Tyr Ser Thr Lys Gly Phe Tyr Thr Leu Asp Asp Val Ala Trp
 465 470 475 480
 Arg Thr Met Glu Gly Tyr Gln Tyr Gly Asp Asp Gln Asp Asp Asp Gly
 485 490 495
 Val Pro Asp Val Gln Ser Tyr His Asn Leu Thr Leu Asn Lys Lys Gly
 500 505 510
 Arg Phe Gln Leu Asn Ile Ser Gln Ser Leu Gly Asp Tyr Gly Ser Val
 515 520 525
 Tyr Val Ser Gly Ser Gln Gln Asn Tyr Trp Gly Thr Ser Glu Ser Asn

530 535 540
 Val Trp Tyr Gln Leu Gly Tyr Ala Gly Gly Val Lys Gly Val Ser Tyr
 545 550 555 560
 Ala Leu Ser Trp Ser Trp Asn Lys Ala Val Gly Ile Asp Gly Thr Asp
 565 570 575
 Arg Ile Ala Ser Phe Asn Val Ser Val Pro Phe Ser Leu Phe Thr Arg
 580 585 590
 His Gly Tyr Arg Arg Asp Asn Ala Ile Asp Arg Ala Tyr Ala Thr Ala
 595 600 605
 Ser Ala Ser Arg Asn Ser Asp Gly Asp Thr Ser Trp Gln Thr Gly Ile
 610 615 620
 Ser Gly Thr Leu Leu Lys Asp Arg Asn Leu Asn Tyr Ser Val Thr Gln
 625 630 635 640
 Gly His Thr Ser Asn Asn Gly Ala Ser Gly Ser Ala Ser Ala Asn Trp
 645 650 655
 Gln Ala Thr Tyr Gly Thr Leu Gly Val Gly Tyr Asn Tyr Thr Arg Asp
 660 665 670
 Gln His Asp Leu Asn Trp Gln Leu Ser Gly Gly Val Val Gly His Ser
 675 680 685
 Asp Gly Ile Thr Phe Ser Gln Pro Leu Gly Asp Thr Asn Val Leu Ile
 690 695 700
 Lys Ala Pro Gly Ala Ser Gly Val Ser Val Glu Asn Gln Thr Gly Val
 705 710 715 720
 Lys Thr Asp Trp Arg Gly Tyr Ala Val Met Pro Tyr Ala Thr Val Tyr
 725 730 735
 Arg Tyr Asn Arg Val Ala Leu Asp Thr Asn Thr Met Ser Asn Asn Thr
 740 745 750
 Asp Ile Glu Asn Asn Val Ser Ser Val Val Pro Thr Asn Gly Ala Leu
 755 760 765
 Val Arg Ala Ser Phe Asp Thr Arg Ile Gly Val Arg Ala Leu Leu Thr
 770 775 780
 Val Lys Arg Asp Asn Gln Pro Val Pro Phe Gly Ala Val Val Arg Glu
 785 790 795 800
 Thr Gln Ser Gly Val Thr Ser Met Val Gly Asp Asp Gly Gln Ile Tyr
 805 810 815
 Leu Ser Gly Leu Pro Leu Ser Gly Glu Leu Leu Ile Gln Trp Gly Asp
 820 825 830
 Gly Lys Gln Ser Gln Cys Arg Ala Pro Tyr Ser Leu Pro Glu Gln Ser
 835 840 845
 Leu Gln Gln Ala Ile Thr Leu Lys Gly Ile Arg Cys Glu
 850 855 860

<210> 6212

<211> 246

<212> PRT

<213> Enterobacter cloacae

<400> 6212

Phe Ile Pro Asp Ala Cys Glu Leu Ile Ile Lys Gly Thr Val Val Met
 1 5 10 15
 Asn Thr Leu Ile Lys Pro Gly Leu Phe Leu Ser Phe Ile Leu Met Met
 20 25 30
 Val Ser Ala Ser Thr Asn Ala Ser Gly Gly Ile Ala Leu Gly Ala Thr
 35 40 45
 Arg Val Ile Tyr Pro Ala Asp Ala Lys Gln Thr Ser Leu Ala Ile Thr
 50 55 60
 Asn Ser Asn Lys Gln Glu Arg Tyr Leu Ile Asn Ala Trp Ile Glu Asn
 65 70 75 80
 Ala Asn Gly Gln Lys Glu Lys Thr Phe Ala Val Thr Pro Pro Leu Phe
 85 90 95
 Val Ser Glu Pro Ala Ser Glu Asn Thr Leu Arg Ile Ile Tyr Ala Gly

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      100      105      110
Pro Ala Leu Pro Ala Asp Arg Glu Ser Leu Phe Tyr Met Asn Val Lys
      115      120      125
Ala Ile Pro Ser Val Ser Lys Lys His Gln Asp Gly Asn Asn Val Leu
      130      135      140
Gln Leu Ala Ile Leu Ser Arg Ile Lys Leu Phe Val Arg Pro Ala Asn
      145      150      155      160
Leu Ala Met Pro Pro Glu Glu Ala Leu Ser Gln Leu Arg Phe Glu Arg
      165      170      175
Val Gly Asn His Leu Lys Val Ser Asn Ala Ser Pro Tyr Tyr Val Thr
      180      185      190
Leu Val Asn Leu Lys Leu Gly Gly Gln Thr Leu Asp Asn Leu Met Val
      195      200      205
Ala Pro Lys Ser Ser Ala Gln Gln Val Leu Pro Ala Ala Thr Ser Gly
      210      215      220
Thr Leu Ser Trp Gln Ser Val Asn Asp Tyr Gly Ala Ile Thr Pro Ala
      225      230      235      240
Arg Ser Val Ser Leu
      245

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<210> 6213
<211> 368
<212> PRT
<213> Enterobacter cloacae

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<400> 6213
Phe Ser Gly Glu Thr Gly Ser Ser Pro Ser Val Val Arg Pro Thr Ala
1      5      10      15
Cys Gln Asn Arg Ala Cys Asn Arg Arg Ser His Leu Arg Gly Ser Ala
      20      25      30
Val Asn Lys Ile His Tyr Leu Gly Leu Ser Leu Leu Ala Phe Leu Pro
      35      40      45
Leu Ser Gln Ala Phe Ala Thr Val Cys Val Asn Glu Asn Gly Val Pro
      50      55      60
Thr Glu Val Tyr Tyr Asp Leu Thr Asp Lys Phe Asn Ser Ser Asn Asn
      65      70      75      80
Gln Val Gly Gln Ile Val Thr Leu Ser Glu Lys Ser Gln Trp Val Gly
      85      90      95
Val Asn Ala Val Cys Pro Lys Gly Thr Ser Gly Asn Thr Thr Lys Arg
      100      105      110
Ser Tyr Val Thr Asp Tyr Pro Val Thr Gly Thr Ser Asp Gly Tyr Gln
      115      120      125
Tyr Leu Lys Leu Asn Asp Tyr Leu Asp Gly Ala Met Lys Ile Thr Asp
      130      135      140
Ser Tyr Ala Gly Thr Phe Tyr Pro Pro Arg Lys Tyr Ile Gln Met Gly
      145      150      155      160
Ser His Pro Asn Val Ser Lys Asn Lys Pro Phe Gly Val Gln Asp Ser
      165      170      175
Ser Leu Val Phe Arg Leu Lys Val Thr Arg Arg Phe Ile Asn Met Val
      180      185      190
Val Ile Pro Arg Ala Thr Met Phe Arg Val Tyr Val Thr Thr Thr Ser
      195      200      205
Ser Asp Pro Leu Thr Thr Pro Val Tyr Thr Ile Ser Tyr Ser Gly Thr
      210      215      220
Ile Gln Val Pro Gln Ser Cys Glu Ile Asn Ala Gly Asn Val Val Glu
      225      230      235      240
Phe Asp Phe Gly Asp Ile Gly Ala Ser Leu Phe Ser Lys Ala Gly Ile
      245      250      255
Gly Asn Lys Pro Glu Gly Ile Ser Ala Gln Ser Lys Thr Ile Gly Ile
      260      265      270
Lys Cys Thr Asn Val Glu Ala Asn Ala Met Leu Thr Met Arg Val Glu

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      275              280              285
Ala Glu Lys Val Ser Gly Ser Thr Leu Val Ser Asp Asn Ala Asp Val
   290              295              300
Gly Phe Val Ile Ala Asn Ser Asn Gly Val Pro Leu Thr Pro Asn Asn
  305              310              315              320
Leu Thr Ser Lys Ile Pro Phe Arg Leu Asp Asp Ser Ala Gln Ala Gln
              325              330              335
Val Gly Ile Arg Ala Trp Pro Val Ser Val Thr Gly Lys Lys Pro Ala
              340              345              350
Glu Gly Arg Phe Thr Ser Arg Gly Tyr Leu Arg Val Asp Tyr Asp
   355              360              365

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<210> 6214
 <211> 80
 <212> PRT
 <213> Enterobacter cloacae

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<400> 6214
Thr Tyr Phe Leu Phe Pro Asn Met Arg Gly Lys Gly Tyr Leu His Phe
 1              5              10              15
Lys Gly Ile Asp Met Lys Leu Ser Asn Ile Ala Ser Thr Val Ile Ala
   20              25              30
Thr Leu Ala Leu Val Ala Gly Ala Ala His Ala Glu Asp Pro Val Ala
   35              40              45
Pro Val Ser Val Asn Gly Gly Thr Val His Phe Lys Gly Glu Leu Val
   50              55              60
Asn Ala Ala Cys Ser Val Asn Thr Glu Leu Phe Arg Ala Asp Gly
 65              70              75              80

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<210> 6215
 <211> 166
 <212> PRT
 <213> Enterobacter cloacae

```

<400> 6215
Pro Ser Arg Cys Phe Ala Leu Cys Ser Pro Ala His Ala Glu Met Ala
 1              5              10              15
Leu Gly Glu Ile Asn Ile Gln Leu Tyr Gly Asn Ile Val Asp Phe Thr
   20              25              30
Cys Val Ala Glu Gly Asp Asp Ser Asn Lys Thr Val Thr Ile Gly Thr
   35              40              45
Trp Pro Thr Lys Gln Leu Arg Thr Thr Gly Ser Arg Thr Gln Pro Val
   50              55              60
Leu Phe Thr Leu Lys Leu Thr Gly Cys Pro Pro Gly Ala Ala Ser Val
 65              70              75              80
Thr Phe Thr Gly Lys Met Asp Gly His Asp Asn Ser Leu Leu Ala Leu
   85              90              95
Asn Asp Ala Ser Ala Ala Ser Asn Val Ser Val Glu Ile Leu Asp Arg
  100              105              110
Asp Lys Thr Arg Leu Ala Leu Gln Gln Ala Ser Gln Thr Val Ala Val
  115              120              125
Asp Ala Gln Gly Asn Ala Glu Leu Ser Phe Tyr Ala Asn Tyr Ile Ala
  130              135              140
Thr Ala Asp Asn Pro Gln Pro Gly Arg Ala Asp Ala Asp Ala Thr Phe
 145              150              155              160
Met Ile Asn Tyr Asn
              165

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<210> 6216
 <211> 167
 <212> PRT

<213> Enterobacter cloacae

<400> 6216

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Arg Tyr Leu Arg Ile Phe Pro Arg Leu Ile Pro Leu Phe Ser Asp Leu
1           5           10           15
Asn Gln Leu Leu Ser Ser Arg Leu Val Val Asn Ile Glu Thr Arg Ala
          20           25           30
Ser Pro Ile Ile Asp Leu Leu Asp Arg Leu Arg Arg His Ser Leu Leu
          35           40           45
Ala Pro Tyr Leu Thr Pro Tyr Met Phe Phe Arg Ala Asp Asp Tyr Asp
          50           55           60
Ala Arg Leu Phe Cys Lys Ala Ala Gly Pro Phe His Val Leu Ala Arg
65           70           75           80
Gln Leu Thr Ala Leu Asp Met Gln Gln Thr Leu Met Glu Ala Pro Ala
          85           90           95
Pro Ala Gly Asn Arg Lys Glu Trp Phe Ser Arg Asp Glu Trp Pro Ile
          100          105          110
Leu Gln Ala Leu Ser Gln Gly Ser Ser Leu Arg Gln Ile Ala Gln Leu
          115          120          125
Gln Asn Arg Pro Tyr Ser Cys Ile Ile Tyr Ser Leu Ser Cys Ile Leu
          130          135          140
Ala Lys Leu Gly Leu Asn Tyr Arg His Glu Leu Leu His Leu Leu Asn
145          150          155          160
Asn Leu Ser Asp Phe Thr Tyr
          165

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<210> 6217

<211> 92

<212> PRT

<213> Enterobacter cloacae

<400> 6217

```

Gln Arg Arg Ser Leu Leu Thr Lys Tyr Arg Gln Ser Pro Leu Ser Asn
1           5           10           15
Val Thr Asp Gly Ile Phe Ser Leu Met Ala Ala Lys Ile Ile Asp Gly
          20           25           30
Lys Thr Ile Ala Gln Gln Val Arg Ser Glu Val Ala Glu Lys Val Lys
          35           40           45
Ala Arg Lys Ala Ala Gly Phe Arg Ala Pro Gly Leu Ala Val Val Leu
          50           55           60
Val Gly Ser Asn Pro Ala Ser Gln Ile Tyr Val Gly Ser Lys Arg Lys
65           70           75           80
Ala Cys Glu Glu Val Gly Phe Val Ser Arg Ser
          85           90

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<210> 6218

<211> 212

<212> PRT

<213> Enterobacter cloacae

<400> 6218

```

Lys Met Lys Pro Ala Ser Val Ile Ile Met Asp Glu His Pro Ile Val
1           5           10           15
Arg Met Ser Ile Glu Val Leu Leu Gln Lys Asn Lys Asn Ile Gln Val
          20           25           30
Lys Leu Lys Ser Gly Asp Ser His Glu Val Leu Asp Cys Ile Arg Asn
          35           40           45
His Pro Ile Asp Leu Val Ile Leu Asp Ile Glu Met Thr Asp Thr Asp
          50           55           60
Gly Phe Val Leu Leu Lys Arg Ile Arg Asn Leu Asn Lys Asp Ile Lys
65           70           75           80

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Val Leu Phe Leu Ser Ser Lys Ser Glu Ala Leu Tyr Ala Gly Arg Ala
 85 90 95
 Ile Arg Ala Gly Asp Asn Gly Phe Val Ser Lys Arg Lys Asp Leu Gly
 100 105 110
 Glu Ile Tyr Asn Ala Val Glu Met Ile Leu Thr Gly Tyr Ser Phe Phe
 115 120 125
 Pro Ser Glu Thr Leu Ser Phe Ile Asn His Leu Gly Ser Arg Thr Gly
 130 135 140
 Ala Ala Val Asp Met Pro Leu Ser Asn Arg Glu Val Thr Val Leu Arg
 145 150 155 160
 Tyr Leu Ala Asn Gly Leu Ser Asn Lys Glu Ile Ala Asp Gln Leu Leu
 165 170 175
 Leu Ser Asn Lys Thr Ile Ser Ala His Lys Ser Asn Ile Phe Ser Lys
 180 185 190
 Leu Gly Val Gln Ser Ile Val Glu Leu Ile Asp Tyr Ala Lys Ala His
 195 200 205
 Glu Leu Leu
 210

<210> 6219

<211> 251

<212> PRT

<213> Enterobacter cloacae

<400> 6219

His Ser Met Asn Leu Gln Thr Tyr Glu Ser Thr Ser Ala Ile Thr Met
 1 5 10 15
 Ser Ala Ile Ser Asn Ala Ile Leu Asn Gly Leu Ser Pro Leu Arg Val
 20 25 30
 Thr Ile Pro Met Thr Gly Val Glu Trp Ala Asp Lys Tyr Phe Tyr Leu
 35 40 45
 Pro Glu Gly Ser Ser His Ile Ala Gly Arg Trp Lys Thr Gln Pro Val
 50 55 60
 Gln Leu Ala Met Leu Asn Met Met Thr Asn Asp Ala Ile Lys Ile Val
 65 70 75 80
 Ser Ile Arg Lys Ser Ala Arg Leu Gly Tyr Thr Lys Val Met Val Val
 85 90 95
 Ala Leu Leu Tyr Phe Ala Glu His Lys Lys Arg Ser Ser Val Ala Tyr
 100 105 110
 Gln Pro Val Asp Asp Glu Ala Glu Gly Phe Val Ser Asp Glu Ile Asp
 115 120 125
 Pro Ala Ile Cys Glu Met Pro Val Ile Gln Lys Ile Phe Pro Asp Trp
 130 135 140
 Asp Ser Ser Asn Glu Arg Asn Asn Ile Lys Arg Lys Glu Met Ser Gly
 145 150 155 160
 Ala Ile Leu Asp Phe Arg Gly Ala Asn Ser Pro Gly Asn Phe Arg Arg
 165 170 175
 Leu Thr Lys Gln Val Val Ala Gly Asp Glu Val Asp Gly Trp Pro Leu
 180 185 190
 Glu Val Ser Lys Lys Gly Lys Gly Glu Gly Ser Pro Ile Glu Leu Ala
 195 200 205
 Leu Val Arg Ile Lys Gly Ala Ser Tyr Pro Lys Ala Ile Phe Gly Ser
 210 215 220
 Thr Pro Thr Val Thr Gly Lys Ser Gln Ile Glu Met Leu Glu Asp Gly
 225 230 235 240
 Ala Asp Leu Val Phe Arg Phe Tyr Leu Pro
 245 250

<210> 6220

<211> 111

<212> PRT

<213> Enterobacter cloacae

<400> 6220

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Gly Ala Val Met Thr Thr Glu Ser Cys Gln Pro Asp Asp Phe Phe Val
1          5          10          15
Gly Pro Asp Val Thr Thr Thr Thr Gly Ile Met Ala Ser Gly Val Asn
          20          25          30
Ile Ala Lys Tyr Thr Pro Val Met Ile Asp Ala Thr Ala Gly Thr Phe
          35          40          45
Lys Ser Trp Asp Gly Thr Pro Gly Lys Ala Val Gly Ile Thr Ala Met
          50          55          60
Ala Val Asn Ala Ser Ala Gly Gln Val Glu Phe Ser Tyr Tyr Asn Gly
65          70          75          80
Gly Thr Phe Arg Ala Ser Tyr Leu Asn Trp Ser Ala Asp Ala Val Lys
          85          90          95
Arg Lys Ser Ala Phe Ala Gly Thr Pro Val Ser Ile Gln Glu
          100          105          110

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<210> 6221

<211> 180

<212> PRT

<213> Enterobacter cloacae

<400> 6221

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Leu Asn Arg Ser Ser Pro Val Met Lys Ser Thr Ala Gly Arg Leu Lys
1          5          10          15
Ser Arg Arg Lys Ala Arg Ala Lys Gly Arg Arg Leu Asn Trp Leu Trp
          20          25          30
Tyr Val Leu Arg Ala Arg His Thr Arg Lys Pro Phe Ser Ala Leu Leu
          35          40          45
Arg Pro Leu Pro Ala Lys Ala Arg Leu Lys Cys Ser Arg Met Ala Pro
          50          55          60
Ile Trp Ser Ser Gly Phe Ile Cys Leu Ser Ala Gln Ala Ala Ser Asn
65          70          75          80
Glu Leu Ala Arg Val Met Ser Ile Ile Gly Cys Glu Glu Ala Lys Gly
          85          90          95
Arg Glu Gln Gln Ala His Ala Leu Ala Ala Ile Pro Gly Met Thr Leu
          100          105          110
Asp Gln Ala Lys Ala Val Leu Ala Ala Ala Pro Gln Thr Ala Gln Ala
          115          120          125
Arg Thr Glu Thr Ala Leu Asp Ala Leu Met Thr Lys Glu Ser Pro Glu
          130          135          140
Ala Val Ala Tyr Met Pro Ala Gln His Asn His Ser Ala Asp Gly Ser
145          150          155          160
Ala Ala Lys Ile Ser Leu Leu Val Gln Ala Gly Lys Ser Leu Ile Glu
          165          170          175
Glu Gln Leu
          180

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<210> 6222

<211> 345

<212> PRT

<213> Enterobacter cloacae

<400> 6222

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Met Ser Asp Ser Tyr Thr Thr Gln Glu Leu Ile Ala Ala Thr Gln Gln
1          5          10          15
Val Phe Lys Phe Gln Pro Leu Phe Leu Ser Leu Phe Phe Lys Glu Thr
          20          25          30
Tyr Thr Phe Asp Thr Glu Asp Val Phe Leu Asp Lys Ile Pro Gly Glu
          35          40          45

```

Val Ser Met Ala Val Tyr Cys Ser Pro Leu Ile Thr Gly Lys Val Asp
 50 55 60
 Arg Thr Arg Gly Phe Lys Thr Thr His Phe Lys Pro Gly Tyr Thr Lys
 65 70 75 80
 Pro Lys His Thr Val Asn Pro His Thr Val Ile Lys Arg Ser Ala Gly
 85 90 95
 Glu His Ile Gly Gln Pro Lys Thr Pro Ala Glu Arg Arg Ala Glu Ile
 100 105 110
 Ile Met Gln Asn Leu Lys Asp Glu Glu Leu Ser Ile Gln Gln Leu Glu
 115 120 125
 Glu Tyr Gln Ala Val Gln Ala Val Leu Lys Gly Lys Tyr Thr Ile Ser
 130 135 140
 Gly Pro Asn Ile Asp Thr Glu Ile Asp Met Gln Arg Ser Val Ala
 145 150 155 160
 Asn Asn Ile Val Gln Ser Gly Ser Thr Ala Trp Ser Ala Gln Asn Lys
 165 170 175
 Asp Thr Phe Asp Pro Ser Asn Asp Ile Glu Glu Tyr Ala Glu His Ala
 180 185 190
 Ser Gly Thr Ile Asn Val Met Val Leu Asp Gly Lys Ala Trp Lys Thr
 195 200 205
 Leu Lys Ser Phe Lys Leu Phe Arg Glu Ala Leu Asp Thr Arg Arg Gly
 210 215 220
 Ser Asn Ser Lys Leu Glu Leu Ala Leu Lys Asn Leu Gly Asp Val Val
 225 230 235 240
 Ser Phe Lys Gly Tyr Tyr Gly Asp Thr Ala Val Ile Val Tyr Lys Gly
 245 250 255
 Gln Tyr Ile Asp Pro Asp Thr Lys Ala Lys Thr Lys Tyr Met Pro Asp
 260 265 270
 Asn Thr Ile Ala Leu Gly Asn Leu Gln Ser Lys Gly Tyr Arg Thr Tyr
 275 280 285
 Gly Ala Val Gln Asp Glu Asp Ala Leu Arg Glu Gly Ile Thr Glu Ala
 290 295 300
 Thr Arg Tyr Pro Lys Ile Trp Thr Thr Thr Gly Asp Pro Ser Ile Thr
 305 310 315 320
 Gln Thr Met Thr Gln Ser Ala Pro Ala Met Val Leu Ala Asp Ala Asp
 325 330 335
 Ala Phe Val Ile Val Thr Leu Ala
 340 345

<210> 6223

<211> 148

<212> PRT

<213> Enterobacter cloacae

<400> 6223

Glu Pro Lys Gly Ser Phe Leu Tyr Pro Glu Thr Lys Met Ala Asn Lys
 1 5 10 15
 Thr Glu Leu Leu Ala Arg Ile Ser Asp Leu Ser Ala Gln Leu Gly Arg
 20 25 30
 Glu Leu Ser Thr Thr Gly Thr Asn Glu Ala Leu Gln Ala Val Ile Asp
 35 40 45
 Ser Ala Glu Ala Glu Leu Lys Leu Leu Asn Glu Asp Asp Gly Glu Thr
 50 55 60
 Leu Pro Leu Gln Pro Leu Pro Gly Gly Ser Asn Ser Gly Thr Leu Leu
 65 70 75 80
 Thr Ala Ser Ser Pro Asp Glu Asn Asp Glu Ala Asp Ala Asp Gly Ala
 85 90 95
 Ala Tyr Arg Leu Val Lys Leu Arg Ala Thr Leu His Val Val His Tyr
 100 105 110
 Val Asn Gln Lys Pro Val Arg Glu Ile Val Pro Ala Gly Gln Ser Ile
 115 120 125

Tyr Val Asp Pro Glu Glu Ala Ala Leu Leu Ile Ala Ala Asn His Val
 130 135 140
 Tyr Ala Leu
 145

<210> 6224

<211> 330

<212> PRT

<213> Enterobacter cloacae

<400> 6224

Phe Leu Ile Val Ala Phe Glu Ala Ser Arg Ile Ala Asn Glu Val Ser
 1 5 10 15
 Met Ile Lys Gln Lys Thr Ile Lys Asn Ile Val Glu Leu Ser Gly Ile
 20 25 30
 Gly Leu His Ser Gly Ser Ser Ile His Met Lys Ile Met Pro Ala Thr
 35 40 45
 Ala Asn Ser Gly Ile Arg Phe Arg Arg Thr Asp Leu Asn Pro Ser Val
 50 55 60
 Asp Ile Gln Leu Arg Ala Glu Gln Val His Asp Thr Met Leu Ala Thr
 65 70 75 80
 Ser Leu Ile Asn Pro Gln Gly Ile Arg Val Ser Thr Ile Glu His Phe
 85 90 95
 Leu Ser Ala Val Ser Ser Leu Gly Ile Asp Asn Leu Leu Val Glu Leu
 100 105 110
 Asp Ala Pro Glu Leu Pro Ile Leu Asp Gly Ser Ala Arg Glu Phe Ile
 115 120 125
 Asp Ser Leu Ile Asn Ala Gly Ser Ile Glu Gln Cys Ala Leu Lys Lys
 130 135 140
 Tyr Leu Leu Ile Lys Lys Thr Val Ser Val Lys Asp Gly Asp Lys Trp
 145 150 155 160
 Ala Leu Leu His Pro Asp Ser Lys Phe Ser Val Asp Phe Thr Ile Asp
 165 170 175
 Phe Lys His Pro Leu Ile Ser Ala Asp Thr Asn Lys Leu Asn Ile Glu
 180 185 190
 Met Ser Lys Glu Lys Tyr Ile Glu Glu Ile Ala Gly Ala Arg Thr Phe
 195 200 205
 Gly Phe Val His Asp Val Glu Lys Leu Gln Lys Ile Gly Leu Val Leu
 210 215 220
 Gly Ala Gly Leu Asn Asn Ala Ile Gly Leu Asp Glu Tyr Ser Val Leu
 225 230 235 240
 Asn Pro Glu Gly Leu Arg Phe Asn Asn Glu Leu Val Arg His Lys Val
 245 250 255
 Leu Asp Ala Ile Gly Asp Leu Phe Val Ser Gly Tyr Asn Ile Ile Gly
 260 265 270
 Ala Tyr His Ala Tyr Lys Ser Gly His Ala Leu Asn Asn Lys Leu Met
 275 280 285
 Leu Ala Leu Leu Asn Asp Thr Asp Ala Trp Glu Phe Val Asn Leu His
 290 295 300
 Asp Tyr Ser Arg Gly Lys Leu Lys Val Asn Met Leu Pro Ala Ile Asn
 305 310 315 320
 Lys Glu Cys Pro Val Ser Leu Thr Ile
 325 330

<210> 6225

<211> 151

<212> PRT

<213> Enterobacter cloacae

<220>

<221> UNSURE

<222>(6)

<400> 6225

Tyr His Arg Ile Ala Xaa Gly Glu Arg Met Ser Thr Ile Gly Asp Ala
 1 5 10 15
 Ala Arg Leu Ser Gly Val Ser Ala Lys Met Ile Arg Tyr Tyr Glu Glu
 20 25 30
 Ala Gly Leu Ile Pro Ser Val Ser Arg Thr Ala Ala Gly Tyr Arg Ile
 35 40 45
 Tyr Lys Asp Val Asp Val Tyr Lys Leu His Phe Ile Arg Arg Cys Arg
 50 55 60
 Glu Leu Gly Phe Ser Leu Ser Gln Thr Gly Asp Leu Leu Ser Leu Trp
 65 70 75 80
 Gly Asn His Ser Arg Gln Ser Ala Asp Val Lys Lys Leu Val Glu Ser
 85 90 95
 His Ile Asn Asp Leu Thr Ser Lys Ile Glu Glu Leu Gln Arg Ile Ala
 100 105 110
 Ser Thr Leu Thr Thr Leu Ser Asp Cys Cys Ala Gly Asp Asp Lys Pro
 115 120 125
 Asp Cys Pro Ile Leu Arg Ala Leu Tyr Leu Ala Glu Thr Ser Arg Lys
 130 135 140
 Asp Lys Glu Asn Ser Pro
 145 150

<210> 6226

<211> 311

<212> PRT

<213> Enterobacter cloacae

<400> 6226

Leu Met Lys Phe Pro His Phe Phe Ile Gln Arg Pro Ile Phe Ala Ile
 1 5 10 15
 Val Leu Ser Leu Phe Met Leu Ile Ala Gly Ala Leu Ala Phe Phe Gln
 20 25 30
 Leu Pro Leu Ser Glu Tyr Pro Ser Val Thr Pro Pro Thr Val Gln Val
 35 40 45
 Thr Ala Ser Tyr Pro Gly Ala Asn Pro Asn Val Ile Ala Asp Thr Val
 50 55 60
 Ala Ala Pro Leu Glu Gln Ala Ile Asn Gly Val Glu Gly Met Leu Tyr
 65 70 75 80
 Met Ser Ser Gln Thr Ser Ser Asp Gly Arg Met Val Leu Thr Ile Ser
 85 90 95
 Phe Arg Gln Gly Thr Asp Pro Asp Ile Ala Gln Ile Gln Val Gln Asn
 100 105 110
 Arg Val Ser Arg Ala Leu Pro Arg Leu Pro Ser Glu Val Gln Gln Ile
 115 120 125
 Gly Val Val Thr Glu Lys Thr Ser Pro Asp Ile Leu Met Val Val His
 130 135 140
 Leu Phe Ser Pro Asp Asn Arg Tyr Asn Pro Leu Tyr Val Ser Asn Tyr
 145 150 155 160
 Ala Met Leu Asn Val Arg Asp Glu Leu Ser Arg Leu Pro Gly Ile Ala
 165 170 175
 Ser Ile Ala Leu Trp Gly Glu Gly Glu Tyr Ala Met Arg Val Trp Leu
 180 185 190
 Asp Pro Asn Lys Ile Ala Ser Arg Gly Leu Thr Ala Ser Asp Val Thr
 195 200 205
 Ser Ala Ile Lys Glu Gln Asn Val Gln Val Ala Ala Gly Ser Val Gly
 210 215 220
 Gln Gln Pro Asn Thr Ser Ser Ser Phe Gln Val Thr Val Asn Ala Leu
 225 230 235 240
 Gly Arg Leu Thr Thr Glu Glu Gln Phe Gly Asp Ile Ile Ile Lys Ser

				245					250					255			
Gly	Thr	Asp	Gly	Gln	Val	Thr	Arg	Leu	Arg	Asp	Val	Ala	Arg	Ile	Glu		
			260					265					270				
Leu	Gly	Ser	Asp	Asn	Tyr	Ser	Leu	Arg	Ser	Leu	Leu	Asp	Asn	Lys	Asp		
		275					280					285					
Ala	Val	Gly	Met	Gln	Ile	Val	Met	Thr	Pro	Gly	Ala	Asn	Ala	Leu	Asp		
		290				295					300						
Val	Ser	Ala	Ser	Val	Arg	Ser											
305					310												

<210> 6227

<211> 1213

<212> PRT

<213> Enterobacter cloacae

<400> 6227

Gly	His	Cys	Ile	Trp	Arg	Arg	Leu	Arg	Val	Arg	Thr	Arg	Lys	Ile	Val		
1			5					10						15			
Leu	Asp	Val	Ile	Ile	Ala	Thr	Tyr	Leu	Glu	Ser	Leu	Gln	Pro	Gly	Phe		
		20						25				30					
Ile	Val	Arg	Asn	Leu	Tyr	Ala	Val	Asn	Phe	Asn	Gly	Asn	His	Cys	Leu		
		35				40					45						
His	Lys	Glu	Gln	Leu	Gln	Leu	Ser	Lys	Asp	His	Phe	Leu	Leu	Val	Arg		
	50			55						60							
Phe	Thr	Met	Leu	Asn	Ile	Ile	Pro	Gly	Tyr	Cys	Thr	Leu	Cys	Arg	Ser		
65				70					75					80			
Arg	Cys	Gly	Thr	Leu	Asn	Glu	Val	Ile	Glu	Asp	Leu	Leu	Phe	Leu	Val		
			85					90					95				
Arg	Pro	Asn	Pro	Val	Leu	Pro	Phe	Gly	Lys	Ala	Met	Cys	Met	Lys	Gly		
		100						105					110				
Lys	Ala	Ala	Pro	Glu	Leu	Val	Asp	Ser	Ala	Asn	Arg	Ile	Leu	His	Pro		
	115					120						125					
Met	Lys	Arg	Thr	His	Pro	Lys	Gly	Ala	Glu	Asn	Pro	Gly	Trp	Gln	Arg		
	130					135					140						
Ile	Ser	Trp	Glu	Glu	Ala	Met	Ser	Thr	Ile	Ala	Gly	Gln	Leu	Lys	Lys		
145				150					155					160			
Phe	Lys	Asn	Glu	Asn	Gly	Ala	Glu	Ser	Val	Ala	Phe	Gly	Phe	Thr	Ser		
		165							170					175			
Pro	Ser	Gly	Thr	Pro	Leu	Ser	Asp	Ala	Ile	Glu	Trp	Leu	Glu	Arg	Phe		
		180						185					190				
Val	Arg	Ile	Tyr	Gly	Ser	Pro	Asn	Thr	Ser	Tyr	Gly	Thr	Glu	Ile	Cys		
	195					200						205					
Asn	Trp	His	Lys	Asp	Val	Ala	His	Arg	Trp	Thr	Phe	Gly	Cys	Gly	Ile		
	210				215						220						
Pro	Val	Ala	Asp	Tyr	Ser	His	Ala	Glu	Leu	Ile	Ile	Leu	Trp	Gly	His		
225				230						235				240			
Asn	Pro	Ala	Asn	Thr	Trp	Leu	Ala	Gln	Ala	Asn	Ala	Ile	Gly	Thr	Gly		
		245						250					255				
Arg	Asn	Asn	Gly	Ala	Lys	Leu	Ile	Val	Ile	Asp	Pro	Arg	Pro	Thr	Pro		
	260							265				270					
Leu	Ala	Lys	Glu	Ala	Asn	Ala	Trp	Leu	Asn	Val	Cys	Pro	Gly	Thr	Asp		
	275						280				285						
Gly	Ala	Leu	Ala	Leu	Gly	Leu	Ser	His	Leu	Leu	Val	Glu	Arg	His	Met		
	290				295						300						
Phe	Asn	Gln	Glu	Phe	Val	Arg	Asp	Trp	Thr	Asn	Gly	Pro	Leu	Leu	Ile		
305				310						315				320			
Arg	Asn	Asp	Asn	Gly	Tyr	Phe	Leu	Arg	Glu	Ile	Asp	Ile	Asn	Pro	Phe		
		325						330					335				
Ala	Thr	Ser	Asn	Arg	Tyr	Val	Val	Trp	Asp	Glu	His	Ile	Gln	Gln	Val		
		340						345				350					
Ile	Phe	Ile	Asp	Ser	Glu	Thr	Arg	Thr	Glu	Glu	Thr	Leu	Thr	Pro	Thr		

		355						360						365				
Ala	Ala	Leu	Glu	Ser	Asp	Val	Glu	Val	Thr	Leu	Ala	Asp	Gly	Gly	Lys			
Ile	Ser	Cys	His	Thr	Ala	Phe	Ser	Ser	Phe	Lys	Asn	Ile	Leu	Ala	Asn			
385					390					395					400			
Tyr	Ser	Pro	Glu	Asn	Val	Ser	Arg	Ile	Thr	Gly	Ile	Ser	Val	Ala	Ser			
				405					410					415				
Ile	Glu	Ala	Ala	Ser	Met	Ile	Gly	Asn	Ala	Lys	Lys	Ile	Ala	Tyr				
			420				425						430					
His	Ser	Trp	Ser	Gly	Val	Ala	Gln	His	Thr	Asn	Ala	Thr	Gln	Thr	Glu			
		435					440					445						
Arg	Ala	Ile	Ala	Thr	Leu	Tyr	Ala	Leu	Thr	Gly	Cys	Phe	Asp	Gln	Glu			
	450					455					460							
Gly	Cys	Asn	Arg	Ile	Tyr	Ala	Ser	His	Pro	Val	Asn	Val	Val	Asn	Ser			
465					470					475					480			
Pro	Thr	Leu	Met	Pro	Lys	Thr	Gln	Trp	Glu	Lys	Ala	Leu	Gly	Leu	Glu			
				485					490					495				
Glu	Arg	Pro	Ile	Gly	Pro	Pro	Ser	Gln	Gly	Trp	Val	His	Ser	Gln	Asp			
			500					505					510					
Ile	Trp	His	Ser	Val	Leu	Glu	Gly	Thr	Pro	Tyr	Lys	Ile	Arg	Gly	Leu			
		515					520					525						
Ile	Gly	Phe	Gly	Ala	Asn	Ile	Leu	Leu	Ser	Gln	Ser	Asp	Thr	Ser	Leu			
	530					535					540							
Gly	Gln	Gln	Ala	Leu	Glu	Ala	Leu	Glu	Phe	Tyr	Ala	His	Val	Asp	Leu			
545					550					555					560			
Phe	Glu	Thr	Pro	Thr	Ser	Lys	Tyr	Ala	Asp	Ile	Leu	Leu	Pro	Val	Asn			
				565					570					575				
Thr	Ala	Trp	Glu	Arg	Glu	Gly	Leu	Arg	Ala	Gly	Phe	Glu	Ser	Ser	Ala			
			580					585					590					
Ala	Ala	Gln	Glu	His	Ile	Gln	Leu	Arg	Lys	Gln	Met	Val	Ser	Pro	Arg			
		595					600					605						
Gly	Glu	Ser	Arg	Ser	Asp	Leu	Glu	Ile	Val	Phe	Asp	Leu	Ala	Cys	Arg			
	610				615						620							
Leu	Gly	Met	Asn	Glu	Ala	Phe	Phe	Asp	Gly	Asn	Ile	Glu	Ser	Ala	Trp			
625					630					635					640			
Asn	Tyr	Gln	Leu	Lys	Pro	Leu	Gly	Leu	Thr	Val	Glu	Met	Leu	Arg	Asn			
				645					650					655				
Lys	Pro	Glu	Gly	Tyr	Asp	Ile	Pro	Leu	Glu	His	Lys	Val	Arg	Lys	Tyr			
			660					665					670					
Ala	Leu	Lys	Asp	Gln	Lys	Thr	Gly	Tyr	Leu	Thr	Gly	Phe	Asn	Thr	Glu			
		675					680					685						
Thr	Lys	Arg	Ala	Glu	Phe	Tyr	Ser	Glu	Val	Leu	His	Arg	His	Gly	Tyr			
	690					695					700							
Asn	Pro	Leu	Pro	Glu	Tyr	Val	Gln	Pro	Gln	Glu	Tyr	Gln	Arg	Asn	Asp			
705					710					715					720			
Pro	Asp	Phe	Pro	Leu	Met	Le												

Arg Ile Arg Arg Leu Asn Glu Phe Glu Leu Val Arg Arg Pro Trp Asp
 850 855 860
 Gly Arg Arg Thr Phe Gln Val Ile Ser Leu Lys Lys Glu Thr Asp Asn
 865 870 875 880
 Val Thr Thr Val Thr Phe Gln Ser Lys Ala Glu Gly Phe Leu Pro Asp
 885 890 895
 Tyr Glu Pro Gly Gln His Val Thr Ile Ser Cys Tyr Pro Leu Ile Asp
 900 905 910
 Ser Glu Asp Ile Val Thr Arg Ala Tyr Ser Leu Thr Gly Pro Ala Phe
 915 920 925
 Val Asp Ala Arg Lys Thr Tyr Ser Ile Ser Val Arg His Gln Thr Ala
 930 935 940
 Arg Asp Glu Asn Gly Glu Phe Val Glu Gly Ile Met Ser Ser Phe Ile
 945 950 955 960
 Asn Thr Arg Leu Gln Val Gly Ser Phe Val Glu Ile Thr Pro Pro Gly
 965 970 975
 Gly Asn Phe Ile Val Pro Leu Asn Ala Met Gln Pro Val Val Ile Phe
 980 985 990
 Ala Gly Gly Ile Gly Ile Thr Pro Phe Ile Cys Tyr Leu Glu Ser Ile
 995 1000 1005
 Asp Pro Asp Glu Thr Gly Pro Glu Ile Trp Leu Phe Tyr Ala Asn Gln
 1010 1015 1020
 Asn Ser Lys Gln His Ala Phe Lys Lys Arg Ile Gln Glu Leu Ser Ser
 1025 1030 1035 1040
 Leu Ile Ser Arg Leu Lys Val Ile Asn Val Tyr Asn Gln Pro Leu Asp
 1045 1050 1055
 Cys Asp Val Leu Gly Glu Asp Tyr Asp Arg Ala Gly Phe Ala Gly Ala
 1060 1065 1070
 Gly Asp Val Asp Ala His Leu Ile Glu Asn Asn Ala Arg Tyr Tyr Met
 1075 1080 1085
 Cys Gly Pro Met Pro Met Met Glu Ala Ile Ser Lys Gly Leu Gln Gln
 1090 1095 1100
 Arg Gly Val Pro Ala Phe Ala Ile Phe Tyr Glu Ile Phe Arg Ser Pro
 1105 1110 1115 1120
 Ala Lys Ile Asn Asp Asp Pro Ser Leu Arg His Lys Val Thr Phe Ala
 1125 1130 1135
 Lys Ser Gly Arg Glu Glu Ile Trp Thr Thr Asp Lys Gly Thr Leu Leu
 1140 1145 1150
 Asn Phe Gly Glu Lys Leu Gly Ile Ser Met Pro Ser Gly Cys Arg Val
 1155 1160 1165
 Gly Gln Cys Glu Ser Cys Ser Thr Lys Val Ile Thr Gly Ser Val Gln
 1170 1175 1180
 His Leu Asn Asn Val Glu Pro Ser Asp Glu Gly Ala Cys Leu Thr Cys
 1185 1190 1195 1200
 Gln Cys Ile Pro Ala Gly Asp Ile Thr Ile Asp Ala
 1205 1210

<210> 6228

<211> 433

<212> PRT

<213> Enterobacter cloacae

<400> 6228

Glu Ile Ala Thr Gly Ala Asn Phe Gly Leu Ser Glu Gly Phe Trp Gly
 1 5 10 15
 Thr Lys Arg Val Ile Met Met Lys Met Ser Ile Arg Thr Met Val Met
 20 25 30
 Ala Val Ala Val Ala Ile Thr Ala Ser Thr Ser Val Ala Val Ala Lys
 35 40 45
 Glu Asp Gly Ser Gly Lys Thr Ser Thr Ala Gln Ile Pro Ala Gly Pro
 50 55 60

Gln Val Pro Val Ala Glu Val Ile Ser Arg Asn Ile Ile Pro Ser Ala
 65 70 75 80
 Glu Phe Thr Gly Ser Leu Ala Ala Ile Lys Thr Val Glu Leu Arg Pro
 85 90 95
 Arg Val Gly Gly Thr Ile Glu Ser Val Ser Val Pro Glu Gly Ser Leu
 100 105 110
 Val His Lys Gly Gln Leu Leu Phe Gln Ile Asp Pro Arg Pro Phe Gln
 115 120 125
 Val Ala Leu Asp Ser Ala Lys Ala Gln Leu Arg Gln Ala Glu Ala Gln
 130 135 140
 Ala Phe Gln Ala Asn Arg Asn Phe Glu Arg Val Ser Arg Leu Val Asn
 145 150 155 160
 Asn Gly Ala Val Ser Arg Lys Asp Tyr Asp Asp Ala Ala Ser Asp Lys
 165 170 175
 Asn Ala Arg Ile Ala Gln Val Asn Val Ala Gln Ala Ala Val Glu Ala
 180 185 190
 Ala Lys Leu Asp Leu Ser Tyr Thr Arg Val Thr Ala Pro Ile Asp Gly
 195 200 205
 Arg Val Asp Arg Ile Leu Ile Thr Glu Gly Asn Leu Ile Ser Asn Ser
 210 215 220
 Glu Gly Gly Ala Ala Thr Leu Leu Thr Thr Ile Val Ser Ser Asn Pro
 225 230 235 240
 Leu Tyr Ala Tyr Phe Asp Ile Asp Glu Ala Thr Phe Leu Asn Thr Val
 245 250 255
 Ser Lys Ala Arg Pro Asp Ala Met Glu Gly Ser Lys Glu Lys Leu Pro
 260 265 270
 Val His Val Gly Leu Ala Thr Glu Lys Gly Tyr Pro His Ser Gly Thr
 275 280 285
 Leu Asp Phe Val Gly Asn Gln Ile Asp Arg Asn Thr Gly Thr Val Arg
 290 295 300
 Val Arg Ala Ile Ile Pro Asn Thr Asp Gly Leu Leu Thr Pro Gly Ala
 305 310 315 320
 Phe Ala Arg Val Gln Leu Gly Thr Gly Lys Ala Gln Gln Val Ile Leu
 325 330 335
 Ile Asn Asp Gln Ala Val Gly Thr Asn Gln Gly Asn Lys Tyr Val Leu
 340 345 350
 Val Ile Gly Asp Asp Ser Lys Ala Gln Tyr Arg Pro Ile Glu Leu Gly
 355 360 365
 Pro Val Val Asp Gly Leu Arg Ile Val Ala Lys Gly Leu Gln Ala Gly
 370 375 380
 Glu Lys Ile Ile Ile Lys Gly Leu Val Arg Pro Gly Met Ala Val Thr
 385 390 395 400
 Pro Ser Met Val Ser Met Gln Ser Leu Glu Ser Ser Leu Asp Ala Lys
 405 410 415
 Pro Ala Thr Gln Gly Lys Ala Ser Asp Ser Asn Asn Lys Gly Gly Asn
 420 425 430

<210> 6229

<211> 182

<212> PRT

<213> Enterobacter cloacae

<400> 6229

Thr Val Arg Cys Ser Gly Arg Asp Pro Pro Ser Ser Glu Arg Val Glu
 1 5 10 15
 Ala Gly Tyr Gly Arg Thr Gly His Ile Lys Lys Ser Arg Gly Val Leu
 20 25 30
 Arg Lys Ala Val Arg Leu Arg Tyr Ala Phe Ile Arg Asp Asn Ser Arg
 35 40 45

Cys Trp Pro Val Arg Leu Leu Cys Arg Val Leu Asp Val His Pro Ser
 50 55 60
 Gly Phe Tyr Phe Trp Leu Gln Gln Pro His Ser Gln Arg His Gln Thr
 65 70 75 80
 Asp Gln Met Leu Thr Gly Gln Ile Lys Gln Phe Trp Leu Glu Ser Gly
 85 90 95
 Cys Val Tyr Gly Tyr Arg Lys Ile Asn Leu Asp Leu Arg Asp Thr Gly
 100 105 110
 Gln Gln Cys Gly Val Asn Arg Val Trp Arg Leu Met Lys Arg Ala Gly
 115 120 125
 Ile Lys Ala Gln Val Gly Tyr Arg Thr Pro Arg Ala Arg Lys Gly Glu
 130 135 140
 Ser Ser Ile Val Thr Pro Asn Met Leu Gln Arg Gln Phe Asn Pro Asp
 145 150 155 160
 Ser Pro Asp Glu Arg Trp Val Thr Asp Ile Thr Tyr Ile Arg Thr His
 165 170 175
 Glu Cys Trp Leu Tyr Leu
 180

<210> 6230

<211> 97

<212> PRT

<213> Enterobacter cloacae

<400> 6230

Arg Glu Val Pro Met Ser Gly Lys Arg Tyr Pro Glu Glu Phe Lys Ile
 1 5 10 15
 Glu Ala Val Lys Gln Val Val Asp Arg Gly His Ser Val Ser Ser Val
 20 25 30
 Ala Thr Arg Leu Asp Ile Thr Thr His Ser Leu Tyr Ala Trp Ile Lys
 35 40 45
 Lys Tyr Gly Pro Asp Ser Ser Thr His Asn Glu Gln Ser Asp Ala Gln
 50 55 60
 Ala Glu Ile Arg Arg Leu Gln Lys Glu Leu Lys Arg Val Thr Asp Glu
 65 70 75 80
 Arg Asp Ile Leu Lys Lys Ala Ala Ala Tyr Phe Ala Lys Leu Ser Asp
 85 90 95

<210> 6231

<211> 794

<212> PRT

<213> Enterobacter cloacae

<400> 6231

Arg Gln Arg Leu Trp Glu Met Lys Lys Asn Ile Glu Asn Phe Glu Thr
 1 5 10 15
 Phe Ile Ile Glu Gln Lys Ala Trp Phe Glu Glu Asn Leu Ala Ala Asp
 20 25 30
 Phe Ala Glu Ser Trp Asp Ser Phe Val Trp Ile Cys Gly Ile Lys Gly
 35 40 45
 Ser Gly Trp Leu Arg Gly Asn Gly Ala Asn Leu Leu Arg Phe Asp Glu
 50 55 60
 Val Asn Arg Leu Lys Gly Ile Asp Asp Arg His Thr Val Ser Glu Pro
 65 70 75 80
 Tyr Gln Leu Phe Met Lys Ala Met Leu Val Leu Val Tyr Arg Gly Arg
 85 90 95
 Asn Arg Ser Ile Ser Ser Ala Val Ala Val Ala Thr Leu Ile Ile Leu
 100 105 110
 Lys Arg Trp Tyr Cys Ala Leu Ile Lys Leu Thr Gly Gln Thr His Pro

	115		120		125										
Ile	Tyr	Leu	Thr	Thr	Asp	Val	Val	Arg	Ser	Ala	Met	Asp	Thr	Leu	Ser
	130					135					140				
Ala	Ala	Ser	Arg	Pro	Gly	Asp	Thr	Asn	Leu	Ala	Asn	Tyr	Lys	Gly	Arg
145					150					155					160
Cys	Val	Lys	Ile	Gln	Lys	Leu	Val	Asn	His	His	Ala	Phe	Thr	Leu	Val
				165					170					175	
Thr	Leu	Gln	Tyr	Val	Ser	Asp	Asp	Cys	Tyr	Thr	Asn	Gln	Thr	Asn	Leu
			180					185					190		
Thr	Arg	Lys	Ala	Arg	Glu	Thr	Ile	Ser	Leu	Lys	Glu	Lys	Asp	Lys	Leu
	195						200					205			
Asp	Asp	Thr	Ser	Thr	Asp	Gly	Glu	Asp	Thr	Leu	Ile	Thr	Ile	Lys	Gly
	210					215					220				
Phe	Leu	Asn	Ile	Val	Ser	Leu	Ile	Gln	Arg	Val	Glu	Ser	Gly	Thr	Glu
225					230					235					240
Lys	Ile	Ala	Leu	Asn	Cys	Leu	Leu	Leu	Leu	Ile	Val	Thr	Gly	Phe	Arg
				245					250					255	
Ser	Val	Glu	Ala	Phe	Asn	Leu	Arg	Gln	Asp	Ala	Leu	Val	Lys	Arg	His
			260					265					270		
Ile	Asp	Asn	Ser	Asp	Leu	Ser	Lys	Arg	Leu	Arg	Asn	Lys	Gly	Leu	Pro
	275						280					285			
Asp	Tyr	Phe	Leu	Gly	Ile	Arg	Tyr	Val	Gly	Val	Lys	Gly	Ala	Gly	Glu
	290					295					300				
Arg	Thr	His	Trp	Val	Glu	Pro	Leu	Ala	Val	Pro	Leu	Val	Glu	Asn	Ile
305					310					315					320
Phe	Lys	Ser	Val	Lys	Leu	Leu	Thr	Ala	Glu	Phe	Arg	Lys	His	Ile	Glu
				325					330					335	
Tyr	Leu	Arg	Ser	Lys	Lys	Phe	Ser	Asp	Tyr	Leu	Pro	Lys	Pro	Ile	Ser
			340					345					350		
Asp	Ile	Thr	Gly	Glu	Leu	Val	Glu	Leu	Asp	Asp	Ile	Val	Lys	Tyr	Met
	355						360				365				
Val	Gln	Ser	Ser	Ser	Glu	Leu	Arg	Gly	Arg	Ala	Gly	Leu	Arg	Asp	Lys
	370					375				380					
Ala	Ser	Lys	Ala	Leu	Glu	Lys	Arg	Gly	Phe	Ile	Pro	Ala	Lys	Val	Ile
385					390					395					400
Leu	Lys	Ser	Gly	Asn	Glu	Lys	Glu	Lys	Tyr	Phe	Thr	Lys	Ser	Asp	Leu
				405					410					415	
Ser	Asn	Phe	Leu	Lys	Ser	Glu	Phe	Gly	Asp	Asn	Ser	Ala	Asn	Thr	Pro
			420					425					430		
Cys	Thr	His	Ala	Trp	Ala	Glu	Asn	Gly	Lys	Arg	Tyr	Glu	Ile	Lys	Tyr
	435						440					445			
Glu	Glu	Leu	Leu	Phe	Leu	Phe	Pro	Lys	Gly	Ser	Leu	Thr	Leu	Lys	Arg
	450					455					460				
Val	Leu	Gln	Leu	Lys	Ala	Thr	Pro	Leu	Pro	Leu	Asn	Asn	Asn	Gly	Leu
465					470					475					480
Asn	Lys	Phe	Leu	Gly	Asn	Val	Ala	Gly	Tyr	Val	Ser	Val	Phe	Ser	Lys
				485					490					495	
Tyr	Ser	Leu	Leu	Glu	Asp	Asp	Gly	Arg	Pro	Thr	Gln	Leu	Arg	Thr	His
			500				505						510		
Ile	Pro	Arg	His	Asn	Ile	Asn	Thr	Phe	Leu	Ala	Ile	Ala	Glu	Ile	Ser
	515						520					525			
Asp	His	Leu	Gln	Ala	Met	Leu	Met	Gly	Arg	Val	Asp	Ile	Thr	Gln	Asn
	530					535				540					
Gln	His	Tyr	Gln	His	Leu	Ala	Leu	Lys	Glu	Arg	Lys	Ala	Ala	Ser	
545					550					555				560	
Leu	Thr	Pro	Leu	Val	Pro	Thr	Val	Pro	Glu	Gln	Ser	Ala	Phe	Thr	Ala
				565					570					575	
Val	Asp	Val	Asp	Ser	Pro	Leu	Asp	Met	Val	Lys	Gln	Ser	Gly	Leu	Met
			580					585					590		
Thr	Phe	Asn	Ser	Ser	Gln	Ser	Leu	Glu	Thr	Asn	Ile	Lys	Ala	Asn	Leu
		595					600					605			

His Thr Phe Asp Asp Arg Tyr Asp Val Ala Gly Phe Ile Glu Ala Ser
 610 615 620
 Ser Gly Asp Gly Leu Phe Glu Asp Ile Ala Ala Phe Glu Glu Ile
 625 630 635 640
 Ser Lys Asn Glu Gly Pro Leu Gln Ala Ser Glu Met Val Gln Arg His
 645 650 655
 Ala Val Leu His Pro Leu Lys Leu Gly Ser Cys Met Arg Asp Val Asn
 660 665 670
 Leu Trp Gly Cys Pro Tyr Arg Met Lys Cys Gln Ala Leu Lys Pro Cys
 675 680 685
 Glu His Phe Thr Leu Thr Gly Arg Ile Asp Glu Tyr Ser Thr Ile Ala
 690 695 700
 Val Lys Gly Arg Ala Leu Asn Glu Ala Ser Leu Ala Phe Glu Gln Tyr
 705 710 715 720
 Ile Ala Ala Leu Pro Asp Asn Gln Leu Ile Gln Gly Asn Ile Glu Glu
 725 730 735
 Asn Leu Thr His Leu Asp Ala Leu Ser Asp Gln Leu Arg Arg Arg Ser
 740 745 750
 Asn Leu Leu Gln Val Leu Ser Ala Gln Glu Ile Leu Ser Gly Glu Ile
 755 760 765
 Lys Val Glu Gly Glu Ile Arg Thr Leu Ala Gln Leu Phe Ala Leu Glu
 770 775 780
 His His Lys Asn Lys Glu Glu Glu Asn
 785 790

<210> 6232

<211> 93

<212> PRT

<213> Enterobacter cloacae

<400> 6232

Arg Phe Thr Val Gly Asn Asn Asp Val Leu Glu Val Gly Val Ala Glu
 1 5 10 15
 Gln Leu Glu Phe Phe Pro Val Gln Ser Pro Cys Arg Gly Ile Cys Gln
 20 25 30
 Val Asp Glu Arg Gly Tyr Cys Arg Gly Cys Met Arg Thr Arg Asp Glu
 35 40 45
 Arg Phe Asn Trp Gln Asn Phe Ser Asp Ala Gln Lys Gln Glu Val Leu
 50 55 60
 Arg Leu Cys Arg Gln Arg Leu Leu Arg Lys Ile Arg Ala Asn Lys Ala
 65 70 75 80
 Val Glu Pro Glu Glu Pro Gln Gln Pro Ser Leu Phe
 85 90

<210> 6233

<211> 307

<212> PRT

<213> Enterobacter cloacae

<400> 6233

His Tyr Phe Leu Glu Glu Asn Val Met Val Gln Arg Ile Thr Leu Ala
 1 5 10 15
 Pro Gln Gly Pro Glu Phe Ser Arg Phe Val Met Gly Tyr Trp Arg Leu
 20 25 30
 Met Asp Trp Asn Met Ser Pro Val Gln Leu Ala Asp Phe Ile Glu Glu
 35 40 45
 His Leu Asp Leu Gly Ile Thr Val Asp His Ala Asp Ile Tyr Gly
 50 55 60
 Gly Tyr Gln Cys Glu Ala Ala Phe Gly Glu Ala Leu Lys Arg Ala Pro
 65 70 75 80
 Gly Leu Arg Glu Arg Met Glu Ile Val Thr Lys Cys Gly Ile Ala Thr

```

      85      90      95
Thr Ala Lys Pro Glu His Ala Leu Gly His Tyr Ile Thr Asp Ser Ala
      100      105      110
His Ile Val Lys Ser Ala Glu Gln Ser Leu Val Asn Leu Ala Thr Asp
      115      120      125
Arg Ile Asp Leu Leu Leu Ile His Arg Pro Asp Pro Leu Met Asp Ala
      130      135      140
Asp Glu Val Ala Glu Ala Phe Leu Thr Leu His Gln Ser Gly Lys Val
      145      150      155
Arg His Phe Gly Val Ser Asn Phe Thr Pro Ala Gln Phe Ala Leu Leu
      165      170      175
Gln Ser Arg Leu Pro Phe Thr Leu Ala Thr Asn Gln Val Glu Ile Ser
      180      185      190
Pro Val His Gln Pro Leu Leu Leu Asp Gly Thr Leu Asp Gln Leu Gln
      195      200      205
Gln Leu Arg Ile Arg Pro Met Ala Trp Ser Cys Leu Gly Gly Gly Arg
      210      215      220
Leu Phe Asn Asp Glu Ala Phe Gln Pro Leu Arg Asn Glu Leu Glu Thr
      225      230      235
Val Ala Arg Glu Leu Asn Ala Glu Ser Ile Glu Gln Val Val Tyr Ala
      245      250      255
Trp Ile Leu Arg Leu Pro Ser Lys Pro Leu Pro Ile Ile Gly Ser Gly
      260      265      270
Lys Ile Glu Arg Val Arg Ala Ala Leu Val Ala Glu Glu Leu Asp Met
      275      280      285
Thr Arg Gln Gln Trp Phe Arg Ile Arg Lys Ala Ala Leu Gly Tyr Asp
      290      295      300
Val Pro
305

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<210> 6234

<211> 191

<212> PRT

<213> Enterobacter cloacae

<400> 6234

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Asn Leu Arg Leu Trp Tyr Arg Leu Lys Val Gln Lys Ile Thr Arg Gly
1      5      10
Gly His Met Lys Arg Phe Ala Leu Ala Met Val Thr Leu Val Val Cys
      20      25      30
Ala Gly Ala Gln Ala Ala Ser Glu Asp Val Glu Met Asn Leu Val Thr
      35      40      45
Ser Gln Gly Val Gly Gln Ser Ile Gly Thr Val Lys Ile Thr Glu Thr
      50      55      60
Asp Lys Gly Leu Glu Phe Ala Pro Asp Leu Lys Ala Leu Pro Pro Gly
      65      70      75      80
Glu His Gly Phe His Val His Ala Lys Gly Ser Cys Gln Pro Ala Met
      85      90      95
Lys Glu Gly Lys Pro Thr Ala Ala Glu Ala Ala Gly Gly His Leu Asp
      100      105      110
Pro Gln Asn Ser Gly Lys His Glu Gly Pro Glu Gly Met Gly His Leu
      115      120      125
Gly Asp Leu Pro Val Leu Val Val Asn Asn Asp Gly Lys Ala Thr Asp
      130      135      140
Pro Val Val Ala Pro Arg Leu Lys Lys Leu Asp Glu Val Lys Gly Lys
      145      150      155      160
Ala Leu Met Ile His Val Gly Gly Asp Asn Met Ser Asp Gln Pro Lys
      165      170      175
Pro Leu Gly Gly Gly Gly Ala Arg Tyr Ala Cys Gly Val Ile
      180      185      190

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<210> 6235
 <211> 94
 <212> PRT
 <213> Enterobacter cloacae

<400> 6235
 Asn Leu Pro Leu Trp Pro Ser Phe His Arg Lys Gly Ser Leu Leu Val
 1 5 10 15
 Thr Leu Phe Ser Phe Ser Ala Gly Leu Pro Leu Gln Asp Leu Ile Val
 20 25 30
 Gly Ala Ser Val Tyr Phe Pro Pro Leu Phe Lys Ala Val Met Val Gly
 35 40 45
 Phe Val Ile Trp Leu Ile Ala His Arg Leu Leu Arg Asp Trp Met Tyr
 50 55 60
 Ser Gly Glu Ile Trp His Pro Met Leu Met Asp Leu Ser Leu Phe Thr
 65 70 75 80
 Leu Ser Val Cys Leu Gly Leu Ala Val Leu Thr Val Trp
 85 90

<210> 6236
 <211> 700
 <212> PRT
 <213> Enterobacter cloacae

<400> 6236
 Ser Thr Ala Glu Arg His Tyr Pro Gly Leu Trp His Asn Leu His Cys
 1 5 10 15
 Arg His Arg Ile Ala Met Met Asn Leu Gly Ala Leu Ser Trp Arg Asn
 20 25 30
 Thr Pro Trp Ile Lys Ala Thr Arg Pro Gln Trp Arg Tyr Ala Leu Arg
 35 40 45
 Asn Gly Ile Ala Met Cys Leu Ala Leu Thr Val Ala Tyr Tyr Leu Asn
 50 55 60
 Leu Asp Glu Pro Tyr Trp Ala Met Thr Ser Ala Ala Val Val Ser Phe
 65 70 75 80
 Pro Thr Val Gly Gly Val Ile Ser Lys Ser Leu Gly Arg Val Ala Gly
 85 90 95
 Ser Leu Leu Gly Ala Thr Ala Ala Leu Leu Ala Gly His Thr Leu
 100 105 110
 Asn Asp Pro Trp Leu Phe Leu Leu Ser Met Ser Ala Trp Leu Gly Leu
 115 120 125
 Cys Thr Trp Ala Cys Ala His Phe Thr Asn Asn Val Ala Tyr Ala Phe
 130 135 140
 Gln Leu Ala Gly Tyr Thr Ala Ala Ile Ile Ala Phe Pro Val Val Asn
 145 150 155 160
 Val Leu Asp Thr Thr Glu Leu Trp Asp Ile Ala Gln Ala Arg Val Cys
 165 170 175
 Glu Val Met Val Gly Ile Leu Cys Gly Gly Val Met Met Met Ile Leu
 180 185 190
 Pro Ser Thr Ser Asp Gly Thr Thr Leu Ile Thr Ala Leu Lys Thr Met
 195 200 205
 His Ala Arg Leu Leu Glu His Ala Ser Leu Leu Trp Gln Pro Asp Ser
 210 215 220
 Ser Asp Asp Ile Arg Leu Ala His Glu Lys Val Ile Gly Gln Ile Leu
 225 230 235 240
 Thr Met Asn Leu Leu Arg Ile Gln Ala Phe Trp Ser His Tyr Arg Phe
 245 250 255
 Arg Arg Gln Asn Thr Leu Leu Asn Tyr Leu Leu His Gln Gln Leu Arg
 260 265 270
 Met Thr Ser Ala Ile Ser Ser Leu Arg Arg Met Leu Leu Asn Trp Pro
 275 280 285

```

Thr Pro Pro Ala His Thr Arg Glu Ile Ile Glu Ala Leu Leu Ala Thr
 290          295          300
Leu Ala Arg Ser Asp Ala Asp Ile Tyr Thr Val Ala Arg Ile Ile Ala
305          310          315          320
Pro Leu Ala Pro Ala Asp Glu Tyr Asp Tyr Arg His Arg Ala Phe Trp
          325          330          335
Gln Arg Leu Asn Tyr Phe Cys Arg Leu Tyr Leu Arg Ser Ser Arg Trp
          340          345          350
Leu Lys Ala Val Glu Asn Ala Thr Pro Val Thr Glu Phe Ser Val Pro
          355          360          365
Gly Ser Pro Ala Leu Ala Arg His Thr Asp Ala Met Glu Ala Leu Trp
          370          375          380
Ser Gly Phe Arg Thr Phe Cys Ala Leu Thr Ala Val Gly Ala Trp Ala
385          390          395          400
Ile Thr Thr Gln Trp Asp Ala Gly Ser Ala Ala Leu Thr Leu Ala Ala
          405          410          415
Ile Ser Cys Val Leu Tyr Ser Val Ala Ala Ser Pro Phe Asn Ser Leu
          420          425          430
Thr Leu Leu Leu Arg Thr Leu Val Leu Leu Ser Leu Phe Ser Phe Val
          435          440          445
Val Lys Phe Gly Leu Met Val Gln Ile Thr Asp Leu Trp Gln Phe Leu
          450          455          460
Leu Phe Leu Phe Pro Leu Leu Thr Thr Met Gln Leu Leu Lys Leu Gln
465          470          475          480
Met Pro Lys Leu Ala Gly Leu Trp Gly Gln Leu Ile Val Phe Met Gly
          485          490          495
Ser Phe Ile Ser Val Thr Asn Pro Pro Val Tyr Asp Tyr Ala Asp Phe
          500          505          510
Leu Asn Asp Asn Leu Ala Lys Ile Leu Gly Val Gly Leu Ala Trp Leu
          515          520          525
Ala Phe Ala Val Leu Arg Pro Gly Ser Asp Ala Arg Lys Ser Arg Arg
          530          535          540
His Ile Arg Glu Leu Arg Arg Gly Phe Val Asp Gln Leu Ser Arg Arg
545          550          555          560
Pro His Leu Arg Glu Ser Glu Tyr Glu Ser Leu Val Tyr His His Val
          565          570          575
Ser Gln Leu Asn Asn Ser Gln Asp Ser Leu Ser Arg Arg Trp Leu Leu
          580          585          590
Arg Trp Gly Val Val Leu Leu Asn Cys Ser His Val Val Trp Gln Leu
          595          600          605
Arg Ala Trp Glu Thr Arg Ser Asp Pro Leu Ser Gln Val Arg Asp Asn
          610          615          620
Cys Ile Ser Met Leu Arg Asp Val Met Ser Glu Arg Gly Val Gln Gln
625          630          635          640
Arg Pro Leu Ser Val Thr Leu Ala Glu Leu Gln Arg Ile Cys Asp Thr
          645          650          655
Leu Ala His His His Gln Pro Ala Ala Arg Asp Leu Ala Ser Ile Ile
          660          665          670
Trp Arg Leu His Cys Ser Leu Ser Gln Leu Glu Gln Ala Pro Pro Pro
          675          680          685
Gly Thr Ile Gly Asp Gln Ile Thr Pro Gln Ala
          690          695          700

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<210> 6237

<211> 315

<212> PRT

<213> Enterobacter cloacae

<400> 6237

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Asn Leu Ala Pro Asp Val Asn Gly Ser Leu Pro Val Tyr Pro Leu Arg
1              5              10              15

```

Leu Ser Trp Pro Cys Arg Val Asn Arg Val Val Arg Ile Ala Leu Lys
 20 25 30
 Thr Leu Lys Tyr Phe Ser Thr Leu Phe Val Leu Ala Leu Ala Leu Ile
 35 40 45
 Ala Gly Trp Trp Leu Trp Asn Tyr Tyr Met Gln Ser Pro Trp Thr Arg
 50 55 60
 Asp Gly Lys Ile Arg Ala Glu Gln Val Ser Ile Thr Pro Gln Val Ser
 65 70 75 80
 Gly Ser Ile Ser Ala Leu Leu Val Lys Asp Asn Gln Ser Val His Ala
 85 90 95
 Gly Asp Val Leu Phe Arg Ile Asp Glu Thr Pro Phe His Ile Ala Val
 100 105 110
 Leu Asn Ala Gln Ala Gln Leu Ala Lys Ala Gln Ser Asp Leu Ala Lys
 115 120 125
 Ala Asn Asn Glu Ala Glu Arg Arg Arg His Leu Ser Arg Asn Tyr Ile
 130 135 140
 Ser Ala Glu Asp Leu Asp Thr Ala Asn Ile Asn Val Lys Ala Met Gln
 145 150 155 160
 Ala Ser Leu Lys Val Ala Glu Ala Thr Leu Lys Gln Ala Glu Trp Gln
 165 170 175
 Leu Thr Gln Thr Val Val Lys Ala Pro Val Asp Gly Trp Ile Thr Ser
 180 185 190
 Leu Ser Thr Arg Val Gly Asp Tyr Ala Thr Thr Gly Gln Pro Val Phe
 195 200 205
 Ala Leu Val Asp Ser Arg Ser Phe Tyr Val Val Gly Tyr Phe Glu Glu
 210 215 220
 Thr Lys Leu Arg His Ile Arg Glu Gly Ala Pro Ala Arg Ile Thr Leu
 225 230 235 240
 Tyr Ser Gly Ala Glu Thr Leu Gln Gly His Val Ser Ser Ile Gly Arg
 245 250 255
 Ala Ile Tyr Asp Gln Ser Val Glu Thr Asp Ser Gly Leu Val Pro Asp
 260 265 270
 Ile Lys Pro Asn Val Pro Trp Val Arg Leu Ala Gln Arg Val Pro Val
 275 280 285
 Arg Val Glu Phe Asp Gln Leu Pro Lys Asp Ile Thr Leu Val Ser Gly
 290 295 300
 Thr Thr Cys Thr Val Ala Ile Gly Ser Arg
 305 310 315

<210> 6238

<211> 400

<212> PRT

<213> Enterobacter cloacae

<400> 6238

Asn Gln Cys Ile Pro Val Ser Arg Met Lys Asn Gln Ser Val Ile Arg
 1 5 10 15
 Gln Phe Ser Glu Ser Glu Leu His Gln Gln Leu Glu Thr Phe Gly Asn
 20 25 30
 His Asp Lys Gln Leu Ser Arg Leu Ile Arg Tyr Phe Ser His Leu Arg
 35 40 45
 Tyr Asn Thr Ala Lys Thr Tyr Leu His Trp Leu Arg Val Trp Asn Glu
 50 55 60
 Trp Tyr Leu Ala Asn Ala Arg Leu His Thr Asp Trp Pro Val Ser Ser
 65 70 75 80
 Leu Pro Val Ser Glu Asp Ala Leu Leu Ala Phe Met Gly His Leu Glu
 85 90 95
 Gly Lys Leu Ser Arg Ser Ser Ile Asn Ser Cys Leu Gln Ala Leu Asn
 100 105 110
 Ser Ile His Lys Lys Gly Leu Asn Leu Pro Gly Ile Ile Thr Ser Glu
 115 120 125

Ala Trp Tyr Met Leu Glu Ala Leu Lys Gln Ser Glu Ala Arg Lys Arg
 130 135 140
 Lys Thr Thr Lys Gln Ala Thr Pro Phe Leu Ile Gly Asp Leu Lys Ala
 145 150 155 160
 Leu Ile Lys Leu Arg Ser Thr Thr Asn Ser Val Arg Lys Leu Arg Asp
 165 170 175
 Leu Cys Leu Ile Trp Thr Gly Phe Glu Thr Leu Leu Arg Ser Ser Glu
 180 185 190
 Ile Arg Arg Ile Arg Leu Lys Asp Leu Ser Leu Asp Ser Met Thr Gly
 195 200 205
 Glu Phe Asn Leu Thr Val Tyr Arg Thr Lys Thr Asn Ile Ser Thr Leu
 210 215 220
 Leu Thr Tyr Arg Leu Thr Arg Gln Leu Thr Asn Cys Leu Leu Arg Leu
 225 230 235 240
 Met Asn Leu Val Lys Met Asp Gln His Ser His Pro Asp Glu Tyr Leu
 245 250 255
 Phe Gln Ala Val Asn Phe His Asp Thr Gly Tyr Met Pro Pro Gly Trp
 260 265 270
 Lys Leu Arg Ser Lys Gly Asn Glu Leu Ser Glu Leu Leu Lys Arg His
 275 280 285
 Asn Leu Pro Tyr Arg Ala Lys Gln Ser Leu Leu Asn Asp Glu Asp Glu
 290 295 300
 Glu Asp Thr Val Asp Asp Ala Gly Met Leu Ser Lys Asn Ser Leu Leu
 305 310 315 320
 Arg Ala Phe Lys Glu Met Trp Asn Glu Leu Tyr Pro Asn Glu Thr Lys
 325 330 335
 Thr Arg Tyr Trp Thr Gly His Ser Val Arg Val Gly Gly Ala Ile Gln
 340 345 350
 Leu Asp Ile Glu Gly Tyr Ser Leu Pro Gln Ile Met Glu Met Gly Asn
 355 360 365
 Trp Ser Asn Glu Glu Met Val Met Arg Tyr Ile Arg Asn Ile Glu Ala
 370 375 380
 Gly Lys Lys Ala Met Ile Lys Leu Met Arg Asn Ala Phe Asp Glu
 385 390 395 400

<210> 6239

<211> 344

<212> PRT

<213> Enterobacter cloacae

<400> 6239

His Leu Cys Ser Ala Arg Ser Ala Trp Ala Ala Lys Leu Ile Gly Asn
 1 5 10 15
 Asn Met Ser Leu Glu Lys Arg Met Ser Tyr Asp Asp Leu Pro Tyr Phe
 20 25 30
 Arg Asp Gln Ile Leu Glu Arg Ile Asp Ser Leu Lys Cys Phe Phe Ser
 35 40 45
 Asn Thr Pro Pro Met Met Ala Asn Leu Met Thr Val Ser Thr Val Ser
 50 55 60
 Arg Thr Glu Glu Arg Leu Lys Gln Val Lys Pro Ile Arg Val Ser Ile
 65 70 75 80
 Lys Asp Asp Ala Ser Val Glu Glu Ile Ile Gln Ala Leu Thr Asp Ile
 85 90 95
 Cys Val Asp Asp Ile Glu Ser Leu Ser His Asp Ser Thr Lys Val Thr
 100 105 110
 Thr Lys Tyr Pro Gly Leu Ile Ile Val Pro Glu Arg Ala Asp Leu Leu
 115 120 125
 Glu Ser Leu Ile Thr Ser Ile Asn Glu Ala Lys Asn Asp Phe Ala Ala
 130 135 140
 Ala Met Arg Arg Ile Asp Asn Lys Lys Asn Val Arg Phe Asp Lys Val
 145 150 155 160

His Lys Lys Leu Pro Gly Leu Val Ala Met His Ser Thr Arg Asn Ile
 165 170 175
 Leu Phe Ile Lys Ser Gln Leu Lys Lys Val Thr Phe Ser Trp Arg Leu
 180 185 190
 Asn Arg Asn Gln Glu Val Lys Thr Ala Glu Gln Leu Val Ser Leu Leu
 195 200 205
 Glu Arg Arg Arg Ala Ser Glu Val Lys Asn Val Ala Thr Thr Asn Leu
 210 215 220
 Asn Val Val Ser Asn Ile Asp Lys Ala Leu His Arg Leu Glu Phe His
 225 230 235 240
 Pro Leu Lys Gln Gly Glu Ser Tyr Arg Leu Cys Arg Thr Asn Ser Phe
 245 250 255
 Pro Val Pro Ile Ala His Ile Phe Ala Phe Arg Pro Glu Gly Gln Glu
 260 265 270
 Arg Asn Gly Asn Lys Tyr Ala Glu Thr Asp Tyr Ser Val Val Lys Ala
 275 280 285
 Ser Leu Pro Ile Phe Ala Ala Gly Asn Ile Pro Gln Leu Lys Thr Leu
 290 295 300
 Ser Asp Trp Ala Pro Glu Asn Ser Gln Gly Pro Ser Asn Gln Arg Lys
 305 310 315 320
 Leu Ser Leu Lys Tyr Thr Glu Leu Val Pro Gly Ala Glu Leu Gly Ile
 325 330 335
 Phe Ile Val Ser Pro Glu Asn
 340

<210> 6240

<211> 202

<212> PRT

<213> Enterobacter cloacae

<400> 6240

Phe Ser Gln Ile Glu Lys Met Gly Arg Arg Phe Asn Phe Asn Ser Ser
 1 5 10 15
 Ala Ser Arg Tyr Ser Leu Asn Pro Leu Gly Tyr Ala Gly Ile Gly Ala
 20 25 30
 Asp Gly Ala Phe Asn Thr Ala Ile Ser Phe Thr Thr Asn Thr Asn Trp
 35 40 45
 Gln Trp Tyr Ser Gly Glu Ala Met Ser Asn Leu Ser Gln Met Leu
 50 55 60
 Ala Leu Thr Ile His Asn Phe Leu Ser Ala Ala Thr Gly Ile Ala Leu
 65 70 75 80
 Ala Phe Ala Leu Phe Arg Gly Phe Ala Arg Arg Glu Ala Thr Gly Ile
 85 90 95
 Gly Asn Phe Trp Ala Asp Val Thr Arg Val Thr Leu Tyr Val Leu Leu
 100 105 110
 Pro Ile Ser Val Val Tyr Gly Val Phe Leu Ile Ala Ser Gly Val Pro
 115 120 125
 Gln Thr Leu Ala Ala Ser Val Asp Val Ser Thr Leu Glu Gly Val Arg
 130 135 140
 Gln Thr Leu Gly Leu Gly Pro Val Ala Ser Gln Glu Ala Ile Lys Met
 145 150 155 160
 Leu Gly Thr Asn Gly Gly Gly Phe Phe Asn Ala Asn Ser Ala His Pro
 165 170 175
 Phe Glu Asn Pro Asp Ala Leu Thr Asn Phe Ile Glu Leu Leu Val Phe
 180 185 190
 Thr Thr Asp Ser Arg Ile Arg Thr Ser Gly
 195 200

<210> 6241

<211> 101

<212> PRT

<213> Enterobacter cloacae

<400> 6241

```

Ile Leu Ile Cys Ala Leu Ile Val Ser Val Leu Leu Leu Ile Pro Leu
1          5          10          15
Ala Met Val Leu Ser Pro Trp Leu Leu Gly Val Leu Arg Phe Leu Leu
          20          25          30
Gly Ala Ala Asp Gly Ala Leu Leu Pro Ala Val Leu Thr Leu Leu Val
          35          40          45
Phe Phe Ser Ser Phe Leu Ile Ala Gly Arg Phe Phe Cys Phe Phe Gln
          50          55          60
Ser Phe Arg Asp Leu Gly Ile Val Ser Gly Pro Leu Val Gly Ala Gly
65          70          75          80
Ile Ser Ala Cys Phe Gly Phe Arg Ala Val Phe Ile Val Thr Ala Gly
          85          90          95
Val Val Leu Phe Asn
          100

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<210> 6242

<211> 146

<212> PRT

<213> Enterobacter cloacae

<400> 6242

```

Trp Pro Ser Met Pro Asp Ser Ser Gly Cys Gly Met Pro Tyr Trp Lys
1          5          10          15
Arg Gly Leu Thr Met Ile Val Lys Phe His Pro Arg Gly Arg Gly Gly
          20          25          30
Gly Ala Gly Pro Val Asp Tyr Leu Leu Gly Lys Asp Arg Gln Arg Asp
          35          40          45
Gly Ala Ser Val Leu Gln Gly Lys Pro Glu Glu Val Arg Glu Leu Ile
          50          55          60
Asp Ala Ser Pro Tyr Ala Lys Lys Tyr Thr Ser Gly Val Leu Ser Phe
65          70          75          80
Ala Glu Gln Asp Leu Pro Pro Gly Gln Arg Leu Lys Arg Leu Met Ala
          85          90          95
Ser Phe Gln Arg Val Leu Met Pro Gly Leu Asp Lys Asp His Tyr Thr
          100          105          110
Val Leu Trp Val Glu His Arg Asp Lys Gly Pro Ala Gly Ala Glu Leu
          115          120          125
Pro Asp Pro Lys Pro Arg Asn Cys Leu Thr Ala Asn Gly Pro Thr Ile
          130          135          140
Leu
145

```

<210> 6243

<211> 144

<212> PRT

<213> Enterobacter cloacae

<400> 6243

```

Met Pro Leu Thr Arg Leu Arg Leu Ala Gln His Arg Ala Asp Arg Glu
1          5          10          15
Lys Ile Ser Arg Pro Ser Arg Arg Tyr Gln Glu Ala Gly Leu Ala Asp
          20          25          30
Lys Arg Ser Lys Met Leu Thr Met Trp Val Thr Glu Asp Glu His Arg
          35          40          45
Arg Leu Leu Glu Arg Cys Asp Gly Lys Gln Leu Ala Ala Trp Met Arg
          50          55          60
Gln Thr Cys Leu Asp Glu Lys Pro Ala Arg Ala Gly Lys Leu Pro Ser
65          70          75          80

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Ile Ser Pro Ala Leu Leu Arg Gln Leu Ala Gly Met Gly Asn Asn Leu
      85      90      95
Asn Gln Ile Ala Arg Gln Val Asn Ala Gly Gly Ser Ser Gly Leu Asp
      100      105      110
Arg Val Gln Val Val Ala Ala Leu Met Ala Ile Asp Ala Gly Leu Glu
      115      120      125
Arg Leu Arg His Ala Val Leu Glu Lys Gly Ala Asp Asp Asp Arg
      130      135      140

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<210> 6244

<211> 331

<212> PRT

<213> Enterobacter cloacae

<400> 6244

```

Ala Arg Thr Arg Arg Phe Val Met Val His Arg Ser Met Leu Met Ser
1      5      10      15
Lys Lys Glu Gln Thr Leu Met Thr Pro Tyr Leu Gln Phe Asn Arg Ser
      20      25      30
Gln Trp Ala Ala Leu Arg Asp Ser Val Pro Met Thr Leu Thr Glu Gly
      35      40      45
Glu Ile Ala Arg Leu Lys Gly Ile Asn Glu Asp Leu Ser Leu Glu Glu
      50      55      60
Val Ala Glu Ile Tyr Leu Pro Leu Ser Arg Leu Leu Asn Phe Tyr Ile
      65      70      75      80
Ser Ser Asn Leu Arg Arg Gln Ala Val Leu Glu Gln Phe Leu Gly Thr
      85      90      95
Asn Gly Gln Arg Ile Pro Tyr Ile Ile Ser Ile Ala Gly Ser Val Ala
      100      105      110
Val Gly Lys Ser Thr Thr Ala Arg Val Leu Gln Ala Leu Leu Ser Arg
      115      120      125
Trp Pro Glu His Arg Ser Val Glu Leu Ile Thr Thr Asp Gly Phe Leu
      130      135      140
His Pro Asn Glu Val Leu Lys Glu Arg Gly Leu Met Lys Lys Lys Gly
      145      150      155      160
Phe Pro Leu Ser Tyr Asp Met His Arg Leu Val Lys Phe Val Ser Asp
      165      170      175
Leu Lys Ser Gly Val Pro His Val Thr Ala Pro Val Tyr Ser His Leu
      180      185      190
Ile Tyr Asp Arg Ile Pro Asp Gly Asp Lys Thr Val Val Gln Pro Asp
      195      200      205
Ile Leu Ile Leu Glu Gly Leu Asn Val Leu Gln Ser Gly Met Asp Tyr
      210      215      220
Pro His Asp Pro His His Val Phe Val Ser Asp Phe Val Asp Phe Ser
      225      230      235      240
Ile Tyr Val Asp Ala Pro Glu Asp Leu Leu Gln Arg Trp Tyr Ile Asn
      245      250      255
Arg Phe Leu Lys Phe Arg Glu Gly Ala Phe Thr Asp Pro Asp Ser Tyr
      260      265      270
Phe His Asn Tyr Ala Gln Leu Ser Glu Glu Glu Ala Ile Ser Val Ala
      275      280      285
Thr Gly Leu Trp Asn Glu Ile Asn Tyr Val Asn Leu Lys Glu Asn Ile
      290      295      300
Leu Pro Thr Arg Glu Arg Ala Ser Leu Ile Leu Thr Lys Ser Glu Lys
      305      310      315      320
His Ala Val Asp Gln Ile Arg Leu Arg Lys
      325      330

```

<210> 6245

<211> 395

<212> PRT

<213> Enterobacter cloacae

<400> 6245

```

Ile Ile Ser Arg Val Phe Ser Leu Ser Leu Trp Glu Arg Ala Gly Val
1      5      10      15
Trp Gly Val His Ala Pro Pro His Pro Asn Pro Leu Pro Gln Gly Glu
20      25      30
Gly Ile Tyr Ile Cys Glu Gln Tyr Arg Arg His Ala Thr Glu Cys Ala
35      40      45
Ser Ser Glu Arg Ile Arg Val Met Leu Gln Phe Ile Leu Arg Arg Leu
50      55      60
Gly Leu Val Ile Pro Thr Phe Ile Gly Ile Thr Leu Leu Thr Phe Ala
65      70      75      80
Phe Val His Met Ile Pro Gly Asp Pro Val Met Ile Met Ala Gly Glu
85      90      95
Arg Gly Ile Ser Pro Glu Arg His Ala Gln Leu Leu Ala Glu Leu Gly
100     105     110
Leu Asp Lys Pro Met Trp Gln Gln Tyr Leu His Tyr Ile Trp Gly Val
115     120     125
Leu His Gly Asp Leu Gly Ile Ser Leu Lys Ser Arg Leu Pro Val Trp
130     135     140
Asp Glu Phe Val Pro Arg Phe Lys Ala Thr Leu Glu Leu Gly Ile Cys
145     150     155     160
Ala Met Ile Phe Ala Thr Ala Val Gly Ile Pro Val Gly Val Leu Ala
165     170     175
Ala Val Lys Arg Gly Ser Ile Phe Asp His Thr Ala Val Gly Leu Ala
180     185     190
Leu Thr Gly Tyr Ser Met Pro Ile Phe Trp Trp Gly Met Met Leu Ile
195     200     205
Met Leu Val Ser Val Gln Trp Asn Leu Thr Pro Val Ser Gly Arg Val
210     215     220
Ser Asp Met Val Phe Leu Asp Asp Thr Asn Pro Leu Thr Gly Phe Met
225     230     235     240
Leu Ile Asp Thr Ala Ile Trp Gly Glu Glu Gly Asn Phe Ile Asp Ala
245     250     255
Val Ala His Met Ile Leu Pro Ala Met Val Leu Gly Thr Ile Pro Leu
260     265     270
Ala Val Ile Val Arg Met Thr Arg Ser Ser Met Leu Glu Val Leu Gly
275     280     285
Glu Asp Tyr Ile Arg Thr Ala Arg Ala Lys Gly Leu Thr Arg Met Arg
290     295     300
Val Ile Ile Ile His Ala Leu Arg Asn Ala Met Leu Pro Val Val Thr
305     310     315     320
Val Ile Gly Leu Gln Val Gly Thr Leu Leu Ala Gly Ala Ile Leu Thr
325     330     335
Glu Thr Ile Phe Ser Trp Pro Gly Leu Gly Arg Trp Leu Ile Asp Ala
340     345     350
Leu Gln Arg Arg Asp Tyr Pro Val Val Gln Gly Gly Val Leu Leu Val
355     360     365
Ala Thr Met Ile Ile Leu Val Asn Leu Leu Val Asp Leu Leu Tyr Gly
370     375     380
Val Val Asn Pro Arg Ile Arg His Lys Lys
385     390     395

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<210> 6246

<211> 304

<212> PRT

<213> Enterobacter cloacae

<400> 6246

Gly Ala Ile Met Ser Gln Val Thr Gln Asn Lys Val Val Thr Ala Pro

```

1           5           10           15
Val Pro Met Thr Pro Met Gln Glu Phe Trp His Tyr Phe Lys Arg Asn
20           25           30
Lys Gly Ala Val Val Gly Leu Val Tyr Val Ser Ile Met Ile Leu Ile
35           40           45
Ala Val Phe Ala Asn Val Leu Ala Pro Tyr Asn Pro Ala Asp Gln Phe
50           55           60
Arg Asp Ala Leu Leu Ala Pro Pro Ala Trp Gln Asp Gly Gly Ser Leu
65           70           75           80
Ala His Leu Leu Gly Thr Asp Asp Val Gly Arg Asp Val Leu Ser Arg
85           90           95
Leu Met Tyr Gly Ala Arg Leu Ser Leu Leu Val Gly Cys Leu Val Val
100          105          110
Val Leu Ser Leu Ile Met Gly Ile Val Leu Gly Leu Val Ala Gly Tyr
115          120          125
Phe Gly Gly Ile Val Asp Asn Ile Ile Met Arg Val Val Asp Ile Met
130          135          140
Leu Ala Leu Pro Ser Leu Leu Leu Ala Leu Val Leu Val Ala Ile Phe
145          150          155          160
Gly Pro Ser Ile Gly Asn Ala Ala Leu Ala Leu Thr Phe Val Ala Leu
165          170          175
Pro His Tyr Val Arg Leu Thr Arg Ala Ala Val Leu Val Glu Val Asn
180          185          190
Arg Asp Tyr Val Thr Ala Ser Arg Val Ala Gly Ala Gly Ala Met Arg
195          200          205
Gln Met Phe Ile Ser Ile Phe Pro Asn Cys Leu Ala Pro Leu Ile Val
210          215          220
Gln Ala Ser Leu Gly Phe Ser Asn Ala Ile Leu Asp Met Ala Ala Leu
225          230          235          240
Gly Phe Leu Gly Met Gly Ala Gln Pro Pro Thr Pro Glu Trp Gly Thr
245          250          255
Met Leu Ser Asp Val Leu Gln Phe Ala Gln Ser Ala Trp Trp Val Val
260          265          270
Thr Phe Pro Gly Leu Ala Ile Leu Leu Thr Val Leu Ala Phe Asn Leu
275          280          285
Met Gly Asp Gly Leu Arg Asp Ala Leu Asp Pro Lys Leu Lys Gln
290          295          300

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<210> 6247

<211> 344

<212> PRT

<213> Enterobacter cloacae

<400> 6247

```

Cys Arg Glu Ala Asn Thr Met Ser Thr His Gln Ala Thr Thr Gln Gln
1           5           10           15
Pro Leu Leu Gln Ala Ile Asp Leu Lys Lys His Tyr Pro Val Lys Lys
20           25           30
Gly Ile Phe Ala Pro Glu Arg Leu Val Lys Ala Leu Asp Gly Val Ser
35           40           45
Phe Ser Leu Glu Arg Gly Lys Thr Leu Ala Val Val Gly Glu Ser Gly
50           55           60
Cys Gly Lys Ser Thr Leu Gly Arg Leu Leu Thr Met Ile Glu Thr Pro
65           70           75           80
Thr Gly Gly Glu Leu Tyr Tyr Gln Gly Gln Asp Leu Leu Lys His Asp
85           90           95
Pro Gln Ala Gln Lys Leu Arg Arg Gln Lys Ile Gln Ile Val Phe Gln
100          105          110
Asn Pro Tyr Gly Ser Leu Asn Pro Arg Lys Lys Val Gly Gln Ile Leu
115          120          125
Glu Glu Pro Leu Leu Ile Asn Ser Asn Leu Ser Lys Glu Gln Arg Arg

```

```

      130              135              140
Glu Lys Ala Leu Ala Met Met Ala Lys Val Gly Leu Lys Thr Glu His
145              150              155              160
Tyr Asp Arg Tyr Pro His Met Phe Ser Gly Gly Gln Arg Gln Arg Ile
      165              170              175
Ala Ile Ala Arg Gly Leu Met Leu Asp Pro Asp Val Val Ile Ala Asp
      180              185              190
Glu Pro Val Ser Ala Leu Asp Val Ser Val Arg Ala Gln Val Leu Asn
      195              200              205
Leu Met Met Asp Leu Gln Gln Asp Leu Gly Leu Ser Tyr Val Phe Ile
      210              215              220
Ser His Asp Leu Ser Val Val Glu His Ile Ala Asp Glu Val Met Val
225              230              235              240
Met Tyr Leu Gly Arg Cys Val Glu Lys Gly Thr Lys Asp Gln Ile Phe
      245              250              255
Thr Asn Pro Arg His Pro Tyr Thr Gln Ala Leu Leu Ser Ala Thr Pro
      260              265              270
Arg Leu Asn Pro Asp Asp Arg Arg Glu Arg Ile Lys Leu Thr Gly Glu
      275              280              285
Leu Pro Ser Pro Leu Asn Pro Pro Gly Cys Ala Phe Asn Ala Arg
      290              295              300
Cys Arg Arg Arg Phe Gly Pro Cys Thr Gln Leu Gln Pro Gln Leu Lys
305              310              315              320
Asp Tyr Gly Gly Gln Leu Val Ala Cys Phe Ala Val Asp Gln Asp Glu
      325              330              335
Asn Gly Glu Lys Pro His Ala
      340

```

<210> 6248

<211> 76

<212> PRT

<213> Enterobacter cloacae

<400> 6248

```

Gly Trp Cys Tyr Lys Pro Phe Glu Asp Leu Ile Gln Pro Ala Arg Ala
1              5              10              15
Thr Asp Asp His Asn Lys Arg Ile Glu Leu Tyr Lys Gln Ala Gln Val
      20              25              30
Val Met His Asp Gln Ala Pro Ala Leu Ile Val Ala His Ser Thr Val
      35              40              45
Tyr Glu Pro Val Arg Lys Glu Val Lys Gly Tyr Val Val Asp Pro Leu
      50              55              60
Gly Lys His His Phe Glu Asn Val Ser Val Glu
65              70              75

```

<210> 6249

<211> 334

<212> PRT

<213> Enterobacter cloacae

<400> 6249

```

Ser Ser Lys Arg His Glu Met Ala Leu Leu Asn Val Asn Lys Leu Ser
1              5              10              15
Val His Phe Gly Asp Glu Gly Thr Pro Phe Arg Ala Val Asp Arg Ile
      20              25              30
Ser Tyr Ser Val Asn Gln Gly Glu Val Val Gly Ile Val Gly Glu Ser
      35              40              45
Gly Ser Gly Lys Ser Val Ser Ser Leu Ala Ile Met Gly Leu Ile Asp
      50              55              60
Tyr Pro Gly Arg Val Met Ala Glu Asn Leu Glu Phe Asn Gly Gln Asp
65              70              75              80

```

```
<210> 6250
<211> 407
<212> PRT
<213> Enterobacter cloacae
```

Gln	Ser	Ser	Thr	Ile	Val	Met	Ser	Phe	Cys	Thr	Glu	Val	Val	Met	Lys
1				5					10					15	
Asp	Val	Val	Ile	Val	Gly	Ala	Leu	Arg	Thr	Ala	Ile	Gly	Cys	Phe	Gln
			20					25					30		
Gly	Ala	Leu	Ala	Arg	His	Ser	Ala	Val	Asp	Leu	Gly	Ser	Val	Val	Val
		35					40					45			
Arg	Ala	Leu	Val	Glu	Arg	Ser	Gly	Ile	Ala	Ala	His	Glu	Ile	Asp	Glu
	50					55					60				
Val	Ile	Leu	Gly	Gln	Val	Leu	Thr	Ala	Gly	Ala	Gly	Gln	Asn	Pro	Ala
65				70					75					80	
Arg	Gln	Ala	Ala	Leu	Lys	Gly	Gly	Leu	Pro	Asn	Thr	Val	Ser	Ala	Ile
				85					90					95	
Thr	Ile	Asn	Asp	Val	Cys	Gly	Ser	Gly	Leu	Lys	Ala	Leu	His	Leu	Ala
			100					105					110		
Thr	Gln	Ala	Ile	Gln	Cys	Gly	Glu	Ala	Asp	Val	Val	Ile	Ala	Gly	Gly
		115					120					125			
Gln	Glu	Asn	Met	Ser	Arg	Ala	Pro	His	Val	Leu	Thr	Asp	Ser	Arg	Thr
	130					135					140				
Gly	Ala	Gln	Leu	Gly	Asn	Ser	Gln	Leu	Leu	Asp	Ser	Leu	Val	His	Asp
145				150						155				160	
Gly	Leu	Trp	Asp	Ala	Phe	Asn	Asp	Tyr	His	Met	Gly	Val	Thr	Ala	Glu
				165					170					175	

Asn Leu Ala Arg Glu Tyr Gly Ile Ser Arg Glu Leu Gln Asp Ala Tyr
 180 185 190
 Ala Leu Ser Ser Gln Gln Lys Ala Arg Ala Ala Ile Asp Ser Gly Arg
 195 200 205
 Phe Arg Asp Glu Ile Val Pro Val Ser Thr Gln Arg Gln Asn Gly Glu
 210 215 220
 Ala Leu Ile Val Asp Thr Asp Glu Gln Pro Arg Thr Asp Ala Ser Ala
 225 230 235 240
 Glu Gly Leu Ala Lys Leu Asp Pro Ala Phe Glu Thr Leu Gly Ser Val
 245 250 255
 Thr Ala Gly Asn Ala Ser Ser Ile Asn Asp Gly Ala Ala Ala Val Met
 260 265 270
 Met Met Ser Glu Ser Lys Ala Gln Glu Leu Ala Leu Pro Val Leu Ala
 275 280 285
 Arg Ile Lys Ala Phe Ala Ser Val Gly Val Asp Pro Ala Leu Met Gly
 290 295 300
 Ile Ala Pro Val Tyr Ala Thr Arg Arg Cys Leu Glu Arg Ala Gly Trp
 305 310 315 320
 Glu Leu Ser Asp Val Asp Leu Ile Glu Val Asn Glu Ala Phe Ala Ala
 325 330 335
 Gln Ala Ile Ser Val Gly Lys Met Leu Glu Trp Asp Pro Leu Arg Val
 340 345 350
 Asn Val Asn Gly Gly Ala Ile Ala Leu Gly His Pro Ile Gly Ala Ser
 355 360 365
 Gly Cys Arg Ile Leu Val Ser Leu Val His Glu Met Lys Lys Arg Asn
 370 375 380
 Ala Arg Lys Gly Ile Ala Thr Leu Cys Ile Gly Gly Gly Gln Gly Val
 385 390 395 400
 Ala Leu Ala Ile Glu Arg
 405

<210> 6251

<211> 239

<212> PRT

<213> Enterobacter cloacae

<400> 6251

Lys Arg Asn Val Ile Leu Ile Glu Gly Phe Phe Met Phe Lys Lys Ser
 1 5 10 15
 Leu Leu Leu Ala Ser Leu Ile Ser Ala Ser Phe Ala Ala Ser Ala Val
 20 25 30
 Thr Val Asp Leu Arg His Glu Tyr Ile Asp Ser Gly Ser Asn Ala Asp
 35 40 45
 Arg Val Ala Val Ser His Arg Phe Asp Asn Gly Phe Gly Phe Ser Val
 50 55 60
 Glu Ala Lys Trp Lys Ser Gly Gly Asp Lys Ala Asp Gln Pro Phe Ala
 65 70 75 80
 Asp Val Val Gly Asn Gly His Glu Asp Gln Ile Ser Trp Arg Trp Lys
 85 90 95
 Ala Thr Asp Asn Ile Ala Leu Thr Pro Ala Phe Thr Ile Glu Ser Thr
 100 105 110
 Asp Ser Arg Thr Ile Tyr Lys Pro Asn Leu His Val Gln Tyr Ser Phe
 115 120 125
 Asp Asn Gly Phe Tyr Val Ala Ala Arg Tyr Arg Tyr Glu Tyr Thr Arg
 130 135 140
 Tyr Pro Ser Ser Ser Asn Lys Asp Asp Asp Lys Val Asn Arg Gly Asp
 145 150 155 160
 Ala Trp Val Gly Trp Val Leu Gly Asp Trp Arg Thr Glu Leu Asn Tyr
 165 170 175
 Val Tyr Ala Lys Ser Ser Glu Gly Val Ala Arg Asn Asn Asn Lys Asp
 180 185 190

Tyr Ser Asn Glu Tyr Asn Ala Lys Leu Ala Tyr Lys Trp Asp Lys Asn
 195 200 205
 Trp Ala Pro Tyr Val Glu Val Gly Asn Val Gly Val Lys Asp Thr Asp
 210 215 220
 Glu Arg Gln Thr Arg Phe Arg Leu Gly Val Ala Tyr Ser Phe
 225 230 235

<210> 6252

<211> 109

<212> PRT

<213> Enterobacter cloacae

<400> 6252

Ser Arg Tyr Ile Met Arg Tyr Ser Pro Glu Ala Leu Thr Ala Phe Val
 1 5 10 15
 Glu Thr Val Ala Ala Gly Ser Phe Ser Ala Ala Ala Arg Arg Leu Arg
 20 25 30
 Lys Ser Gln Ser Thr Ile Ser Thr Ser Ile Ala Asn Leu Glu Ala Asp
 35 40 45
 Leu Gly Phe Glu Leu Phe Asp Arg Ser Ala Arg His Pro Val Leu Thr
 50 55 60
 Ala Gln Gly Glu Gln Val Leu Gly Tyr Val Gln Ser Ile Leu Ala Ala
 65 70 75 80
 Ser Ala Arg Leu Asp Glu Leu Ala Val Ser Leu Thr Ala Gln Lys Glu
 85 90 95
 Gly Pro Val Leu Thr Phe Val Leu Ser Asp Thr Leu
 100 105

<210> 6253

<211> 185

<212> PRT

<213> Enterobacter cloacae

<400> 6253

Pro Ala Val Leu Glu Gln Met Met Ser Lys Phe Asp Gln Arg Phe Pro
 1 5 10 15
 His Thr Glu Phe Glu Cys Leu Ile Gly Glu Glu Glu Asp Val Ile Asp
 20 25 30
 Leu Leu Gln Lys Glu Arg Ala Gln Ile Gly Leu Thr Glu Ala Arg Asp
 35 40 45
 Ser Tyr Pro Thr Asp Ile Gly Ala Thr Arg Leu Pro Met Gln Thr Arg
 50 55 60
 Met Ala Ile Tyr Val Ser Ala Gly His Pro Leu Ala Gly Gln His Glu
 65 70 75 80
 Thr Gln Ala Asp Glu Leu His Gly Trp Arg Glu Leu Arg Leu Ser Thr
 85 90 95
 Tyr Leu Glu Arg Glu Ala Pro Leu Ala Arg Gly Pro Val Trp Ser Ala
 100 105 110
 Pro Asn Tyr Leu Leu Leu Leu Ser Met Ala Val Gln Gly Phe Gly Trp
 115 120 125
 Cys Ala Leu Pro Cys Ala Leu Val Asp Glu Phe Ala Ala Ser Lys Ser
 130 135 140
 Leu Val Gln Leu Asn Val Pro Gly Trp Pro Arg Ser Ile Ala Ile Asp
 145 150 155 160
 Leu Val Trp Asn Lys Arg Thr Pro Pro Gly Val Ala Gly Ser Trp Leu
 165 170 175
 Arg Gln Tyr Leu Gln Asp Ala Arg
 180 185

<210> 6254

<211> 92

<212> PRT

<213> Enterobacter cloacae

<400> 6254

```

Tyr Val Ala Leu Met Ser Lys Ile Trp Ser Lys Glu Glu Thr Leu Trp
1          5          10          15
Ser Phe Ala Leu Tyr Gly Thr Ala Val Gly Ala Gly Thr Leu Phe Leu
          20          25          30
Pro Ile Gln Leu Gly Ser Ala Gly Ala Ile Val Leu Leu Ile Thr Ala
          35          40          45
Leu Val Ala Tyr Pro Leu Thr Tyr Trp Pro His Lys Ala Leu Ala Gln
          50          55          60
Phe Ile Leu Ser Ser Lys Thr Lys Gly Asn Ala Gly Ile Thr Ser Ser
65          70          75          80
Pro Ala Gly Ala Gly Arg Ile Gln Arg Asn Ala Tyr
          85          90

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<210> 6255

<211> 476

<212> PRT

<213> Enterobacter cloacae

<220>

<221> UNSURE

<222> (238)

<400> 6255

```

Pro Val Thr Leu Thr Thr Leu Asn Thr Leu Ser Gly Lys Thr Arg Arg
1          5          10          15
Phe Asp Met Ala Tyr Gln Thr Val Asn Pro Ala Thr Asn Gln Leu Ile
          20          25          30
Lys Glu Tyr Pro Ser His Thr Asp Ala Asp Val Glu Ala Ala Leu Lys
          35          40          45
Ala Ala Asp Ala Leu Tyr His Ser Glu Trp Ala Lys Gly Asp Ile Ser
          50          55          60
Gln Arg Leu Pro Val Leu His Lys Leu Ala Asp Leu Ile Asp Glu Arg
65          70          75          80
Val Glu Asp Leu Ala Lys Ile Ala Ser Gln Glu Met Gly Lys Leu Ile
          85          90          95
Glu Gln Ser Arg Gly Glu Val Lys Leu Cys Ala Gln Ile Ala Arg Tyr
          100          105          110
Tyr Ala Asp Asn Ala Lys Gln Phe Leu Ala Pro Val Lys Tyr Asp Ser
          115          120          125
Glu Leu Gly Glu Ala Trp Val Glu His His Pro Ile Gly Val Leu Met
          130          135          140
Ala Val Glu Pro Trp Asn Phe Pro Tyr Tyr Gln Leu Met Arg Val Leu
145          150          155          160
Ala Pro Asn Leu Ala Ala Gly Asn Pro Val Ile Ala Lys His Ala Ser
          165          170          175
Ile Val Pro His Cys Ala Glu Thr Phe Ala Gln Leu Val Arg Glu Ser
          180          185          190
Gly Arg Pro Arg Lys Gly Ala Trp Thr Asn Leu Phe Ile Ser Ser Glu
          195          200          205
Gln Val Ala Asn Ile Ile Ala Asp Asp Arg Val Gln Gly Ala Ala Leu
          210          215          220
Thr Gly Ser Glu Lys Pro Gly Ser Val Val Ala Ala Gln Xaa Ala Lys
225          230          235          240
His Ile Lys Lys Ser Thr Leu Glu Leu Gly Gly Asn Asp Val Phe Val
          245          250          255
Val Leu Asp Asp Ala Glu Leu Glu Lys Ala Val Lys Ile Gly Val Asn
          260          265          270

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Ala Arg Leu Asn Asn Ala Gly Gln Val Cys Thr Ala Ala Lys Arg Phe
 275 280 285
 Ile Leu His Glu Lys Ile Ala Asp Ala Phe Leu Ser Lys Phe Thr Glu
 290 295 300
 Ala Phe Lys Gln Val Lys Ile Gly Asp Pro Leu Asp Glu Ser Thr Thr
 305 310 315 320
 Leu Gly Pro Leu Ser Ser Lys Asp Ala Leu Glu Thr Leu Thr Lys Gln
 325 330 335
 Val Asn Glu Ala Val Lys Asn Gly Ala Lys Leu His His Gly Gly Lys
 340 345 350
 Pro Val Gln Arg Asp Gly Ser Phe Glu Pro Thr Ile Leu Thr Asn
 355 360 365
 Ile Ser Arg Asp Asn Pro Ala Tyr Phe Glu Glu Phe Phe Gly Pro Val
 370 375 380
 Ala Gln Ile Tyr Val Val Lys Asn Asp Asp Glu Ala Val Ala Leu Ala
 385 390 395 400
 Asn Asp Ser His Tyr Gly Leu Gly Gly Ala Val Phe Ser Gln Asn Ile
 405 410 415
 Glu Arg Ala Lys Lys Met Ala Ser Arg Ile Glu Thr Gly Met Val Tyr
 420 425 430
 Ile Asn Trp Leu Thr Asp Thr Ala Ala Glu Leu Pro Phe Gly Gly Val
 435 440 445
 Lys Arg Ser Gly Tyr Gly Arg Glu Leu Ser Asp Leu Gly Ile Lys Glu
 450 455 460
 Phe Val Asn Gln Lys Leu Val Val Val Arg Lys
 465 470 475

<210> 6256

<211> 621

<212> PRT

<213> Enterobacter cloacae

<400> 6256

Ile Gly Arg Arg Asn Met Ala Ile Ile Ile Pro Thr Val Ser Ser Cys
 1 5 10 15
 Ser Glu Lys Ile Thr Ala Gly Glu Lys Arg Leu Ala Arg Leu Leu Glu
 20 25 30
 Gly Gly Leu Ser Glu Gln Cys Thr Cys Trp Tyr Asp Thr Arg Met Gly
 35 40 45
 Asp Lys Asp Asp His Pro Asp Phe Val Ile Leu Ala Pro Asp Lys Gly
 50 55 60
 Leu Leu Phe Ile Glu Val Lys Asp Trp Tyr Ile Thr Lys Ile Lys Ser
 65 70 75 80
 Ala Asn Lys Thr His Ile Asn Tyr Glu Thr Lys Asn Gly Ile Glu Pro
 85 90 95
 Leu Lys Asn Pro Leu Glu Gln Val Arg Gln Tyr Thr Phe His Ile Ile
 100 105 110
 Asn Ser Leu Lys Lys Asp Pro Leu Leu Arg Gln Lys Gln Gly Asp His
 115 120 125
 Glu Gly Gly Phe Ile Met Pro Tyr Gly Tyr Gly Val Tyr Leu Ser Asn
 130 135 140
 Ile Thr Arg Ala Gln Leu Glu Lys Ser Phe Thr Pro Glu Glu Leu Asn
 145 150 155 160
 Glu Ile Leu Pro Ala Ser Gln Val Ile Cys Lys Asp Glu Leu Asn Glu
 165 170 175
 Phe Met Thr Arg Glu Gln Ile Ser Gly Arg Leu Glu Ser Leu Leu Lys
 180 185 190
 His His Phe Val His Asn Thr Thr Pro Gln Gln Leu Asp Arg Ile Arg
 195 200 205
 Trp His Leu Tyr Pro Asp Val Arg Ile Asn Pro Ser Val Thr Arg Val
 210 215 220

Gly Leu Asp Asn Phe Thr Phe His Thr Pro Asp Val Val Cys Met Met
 225 230 235 240
 Asp Arg Asn Gln Glu Gln Leu Ala Arg Ser Met Gly Ala Gly His Arg
 245 250 255
 Val Ile His Gly Val Ala Gly Ser Gly Lys Thr Leu Ile Leu His His
 260 265 270
 Arg Cys Ile Glu Leu Ala Asn Asn Ile Glu Asn Thr Lys Pro Ile Leu
 275 280 285
 Val Ile Cys Tyr Asn Ile Thr Leu Ala Lys Lys Leu Lys Ala Gln Leu
 290 295 300
 Glu Gln His Ser Leu Arg Leu Pro Val Glu Val Ile His Phe His Ala
 305 310 315 320
 Trp Cys Tyr Gln Gln Leu Asn Ala His Arg Arg Leu Pro Pro Arg Ser
 325 330 335
 Lys Asn Phe Ile Glu Leu Met Glu Asn Ala Leu Thr Val Ala Phe Glu
 340 345 350
 Glu Gly Ala Ile Thr Pro Glu Gln Tyr Ser Ala Val Leu Ile Asp Glu
 355 360 365
 Gly His Asp Phe Lys Pro Glu Trp Leu Arg Ile Leu Ala Lys Met Pro
 370 375 380
 Asp Asn Lys Asp Ser Ser Leu Leu Phe Leu Tyr Asp Asp Ala Gln Ser
 385 390 395 400
 Ile Tyr Gln Lys Lys Lys Ala Leu Asp Phe Thr Leu Ser Ser Val Asp
 405 410 415
 Ile Lys Ala Gln Gly Arg Thr Thr Ile Leu Asp Thr Asn Tyr Arg Asn
 420 425 430
 Thr Arg Gln Ile Leu His Phe Ala Ser Ser Val Pro Phe Asn Tyr Leu
 435 440 445
 Asn Asn His Ile Glu Ala Ser Leu Lys Tyr Gln Gln Pro Ala Ala Gly
 450 455 460
 Gly Leu Ser Gly Lys Tyr Pro Ala Leu Ala Ser Phe Asp Asn Gln Asp
 465 470 475 480
 Glu Glu Ile Thr Arg Val Leu Asp Trp Val Thr Glu Gln Arg Gln Glu
 485 490 495
 Gly Val Ala Trp Ser Glu Ile Ala Ile Leu Cys Pro Ser Thr Tyr Ser
 500 505 510
 Ile Ser Gly Met Leu Ala Pro Arg Leu Glu Ala Arg Lys Ile Pro Tyr
 515 520 525
 Gln Met Ile Val Ser Ser Asp Lys Lys His Trp Ser Pro Gln Asn
 530 535 540
 Asp Tyr Leu Cys Val Met Pro Leu Pro Ser Ser Lys Gly Leu Glu Phe
 545 550 555 560
 Asn Ser Val Ala Ile Met Asp Ala Ala Lys Glu Arg Asp Ser Glu Asp
 565 570 575
 Leu Ser Asp Asp Ile Lys Arg Leu Tyr Val Gly Ile Thr Arg Ala Arg
 580 585 590
 Gln Asn Leu Leu Val Thr Met His Gly Thr Gly Ser Leu Arg Asp His
 595 600 605
 Leu Val Glu Thr Trp Glu Lys Ser Val Lys Ser Ile
 610 615 620

<210> 6257

<211> 189

<212> PRT

<213> Enterobacter cloacae

<400> 6257

Phe Asp Asp Glu Glu Thr Arg Met Lys Lys Leu Asn Val Leu Ile Leu
 1 5 10 15
 Ser Ala Leu Thr Ala Val Ser Gly Ser Ala Leu Ala Met Gly Gly Ser
 20 25 30

Ile Glu Gln Gly Lys Asn Phe Thr Asn Leu Asn Val Glu Met Gly Lys
 35 40 45
 Ser Thr Ser Gly Leu Tyr Thr Glu Gly Asn Trp Leu Lys Asn Thr Asp
 50 55 60
 Asp Gly Thr Thr Thr Gly Gly Val Gly Ala Gly Tyr Asn Phe Glu Val
 65 70 75 80
 Gly Pro Val Met Leu Asn Ala Gly Ala Lys Ala Leu Tyr Val Gly Pro
 85 90 95
 Lys Lys Gly Asp Asn Gly Val Ala Phe Pro Val Gly Gly Gly Val Asn
 100 105 110
 Val Ala Leu Thr Asp Ser Ile Arg Val Phe Gly Glu Gly Tyr Val Ala
 115 120 125
 Pro Asp Gly Leu Asn Asn Ser Val Lys Asn Tyr Val Glu Ala Asn Gly
 130 135 140
 Gly Val Ser Trp Thr Pro Val Lys Pro Val Thr Leu Lys Val Gly Tyr
 145 150 155 160
 Arg His Val Ser Val Asp Gly Lys Asp Gly Arg Pro Asn His Thr Leu
 165 170 175
 Val Asp Gly Ala Tyr Phe Gly Gly Gly Val Ser Phe
 180 185

<210> 6258

<211> 74

<212> PRT

<213> Enterobacter cloacae

<400> 6258

Gly Ile Leu Gln Met Ala Lys Ile Lys Gly Gln Val Lys Trp Phe Asn
 1 5 10 15
 Glu Ser Lys Gly Phe Gly Phe Ile Thr Pro Ala Asp Gly Ser Lys Asp
 20 25 30
 Val Phe Val His Phe Ser Ala Ile Gln Gly Asn Gly Phe Lys Thr Leu
 35 40 45
 Ala Glu Gly Gln Asn Val Glu Phe Glu Ile Gln Asp Gly Gln Lys Gly
 50 55 60
 Pro Ala Ala Val Asn Val Thr Ala Ile
 65 70

<210> 6259

<211> 593

<212> PRT

<213> Enterobacter cloacae

<400> 6259

Ile Arg Ala Leu Ile Asn Ser Pro Gly Val Lys Val Lys Lys Thr
 1 5 10 15
 Ile Thr Thr Thr Gly Asn Phe Thr Pro Ala Arg Phe Ala Leu Leu Cys
 20 25 30
 Leu Ala Ile Phe Cys Ser Leu Ala Phe Leu Leu Gly Arg Val Ala Trp
 35 40 45
 Leu Gln Ile Ile Lys Pro Asp Asn Leu Val Lys Gln Glu Asp Met Arg
 50 55 60
 Ser Leu Arg Glu Val Ala Ile Asp Ala Pro Arg Gly Met Ile Val Asp
 65 70 75 80
 Arg Glu Gly Arg Pro Leu Ala Val Ser Val Pro Val Gln Ala Val Trp
 85 90 95
 Ala Asp Pro Lys Thr Val Leu Glu Lys Gly Gly Ile Gly Tyr Asp Ser
 100 105 110
 Arg Trp Gln Ala Leu Ala Asn Ala Leu His Leu Ser Leu Ser Thr Leu
 115 120 125
 Ala Ser Arg Ile Asn Ser Asn Pro His Gly Arg Phe Ile Tyr Leu Ala

130	135	140
Arg Gln Val Asp Pro Ser Gln Ala Lys Trp Ile Asp Lys Leu Arg Leu		
145	150	155
Pro Gly Ile Asn Leu Arg Asp Glu Ser Arg Arg Phe Tyr Pro Ala Gly		160
	165	170
His Val Ala Ala Asn Leu Ile Gly Phe Thr Asn Ile Asp Gly Gln Gly		175
	180	185
Ile Glu Gly Val Glu Lys Ser Phe Asn Thr Gln Leu Thr Gly Lys Ala		190
	195	200
Gly Val Arg Leu Val Arg Lys Asp Arg Tyr Gly His Val Val Glu Asn		205
	210	215
Leu Thr Glu Val Ala Pro Val Pro Ala His Asn Ile Gln Leu Ser Ile		220
	225	230
Asp Glu Arg Leu Gln Thr Ile Thr Glu Asp Ala Leu Asp Asn Ala Val		235
	245	250
Ala Trp Asn Lys Ala Glu Ser Gly Ala Ser Val Leu Ile Asn Ile Gln		255
	260	265
Thr Gly Glu Ile Leu Ala Met Ala Ser Phe Pro Asp Phe Asn Pro Asn		270
	275	280
Asn Arg Glu Gly Ala Thr Leu Asp Asp Phe Arg Asn Arg Ala Ile Ser		285
	290	295
Asp Thr Phe Glu Pro Gly Ser Thr Val Lys Pro Leu Val Leu Met Thr		300
	305	310
Ala Leu Gln Gln Gly Leu Val Gln Pro Asp Ser Val Ile Asp Thr His		315
	325	330
Pro Tyr Thr Ile Asp Gly His Arg Ile Arg Asp Val Gly Tyr Tyr Pro		335
	340	345
Glu Leu Thr Met Thr Gly Ile Leu Gln Lys Ser Ser Asp Thr Gly Val		350
	355	360
Ser Arg Leu Ser Leu Ala Met Pro Val Gln Arg Leu Leu Asp Thr Tyr		365
	370	375
Lys His Phe Gly Phe Gly Glu Ser Thr Gly Leu Gly Leu Thr Gly Glu		380
	385	390
Ser Ala Gly Leu Leu Pro Gln Arg Lys Phe Trp Ser Gln Leu Asp Arg		395
	405	410
Ala Thr Phe Ala Phe Gly Tyr Gly Leu Met Val Thr Pro Leu Gln Leu		415
	420	425
Ala His Val Tyr Ala Thr Ile Gly Ser Tyr Gly Ile Glu Arg Pro Leu		430
	435	440
Ser Ile Thr Arg Ile Asp Pro Pro Val Ile Gly Lys Arg Val Met Pro		445
	450	455
Glu Glu Ile Val His Glu Val Glu His Met Met Glu Ser Val Ala Leu		460
	465	470
Pro Gly Gly Gly Gly Ile Lys Ala Ala Val Arg Asn Tyr Arg Val Ala		475
	485	490
Ile Lys Thr Gly Thr Ala Lys Lys Ile Asp Glu His Gly Lys Tyr Val		495
	500	505
Asp Lys Tyr Val Ala Tyr Thr Ala Gly Val Ala Pro Ala Ser Asp Pro		510
	515	520
Arg Phe Ala Leu Val Val Val Ile Asn Asp Pro Gln Asn Gly Ala Tyr		525
	530	535
Tyr Gly Gly Ala Val Ser Ala Pro Val Phe Ser Glu Ile Met Gly Asn		540
	545	550
Val Leu Arg Leu Glu Asn Val Lys Pro Asp Gly Leu Pro Ala Asp Ser		555
	565	570
Asp His Leu Ile Val Met His His Pro Ala Val Tyr Asn Pro Gly Glu		575
	580	585
		590

<211> 285
 <212> PRT
 <213> Enterobacter cloacae

<400> 6260

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Arg Tyr Thr Ser Pro Phe Gly Leu Arg Pro Gly Ala Val Met Ser Phe
1      5      10      15
Ser Cys Pro Leu Cys His Ala Pro Leu Thr Arg Ala Glu Lys Thr Phe
20     25     30
Ile Cys Pro Gln Gly His Gln Phe Asp Arg Ala Lys Glu Gly Tyr Val
35     40     45
Asn Leu Leu Pro Val Gln His Lys Arg Ser Arg Asp Pro Gly Asp Ser
50     55     60
Ala Glu Met Met Gln Ala Arg Arg Ala Phe Leu Asp Ala Gly His Tyr
65     70     75     80
Gln Pro Leu Arg Asp Ala Val Val Ala Leu Leu Arg Glu Tyr Leu Thr
85     90     95
Glu Gly Ala Ser Ala Met Leu Asp Ile Gly Cys Gly Glu Gly Tyr Tyr
100    105    110
Thr Ala Thr Phe Ala Asp Val Ala Ala Glu Lys Gly Ala Glu Thr Tyr
115    120    125
Gly Leu Asp Val Ser Lys Val Ala Ile Arg Ala Ala Ala Lys Arg Tyr
130    135    140
Ser Ala Val Thr Phe Cys Val Ala Ser Ser His Arg Leu Pro Phe Glu
145    150    155    160
Glu Ala Ser Met Asp Ala Val Val Arg Ile Tyr Ala Pro Cys Lys Ala
165    170    175
Glu Glu Leu Ala Arg Val Val Lys Pro Gly Gly Trp Val Ile Thr Val
180    185    190
Thr Pro Gly Pro Arg His Leu Leu Glu Leu Lys Gly Leu Ile Tyr Asp
195    200    205
Glu Val His Leu His Ala Pro His Ser Glu Gln Leu Ala Gly Phe Ala
210    215    220
Leu Lys Gln Ala Gln Ser Val Ala Tyr Glu Met Thr Leu Gln Gly Ser
225    230    235    240
Glu Ala Val Ala Leu Leu Gln Met Thr Pro Phe Ala Trp Arg Ala Lys
245    250    255
Pro Glu Val Trp Glu Thr Leu Ala Ala Gln Thr Glu Phe Arg Cys Gln
260    265    270
Thr Asp Phe Ser Ile His Cys Trp Gln Arg Glu Gly
275    280    285

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<210> 6261
 <211> 141
 <212> PRT
 <213> Enterobacter cloacae

<400> 6261

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Asn Ser Ile Pro Arg Pro Arg Leu Arg Leu Leu Phe Asn Ala Val Arg
1      5      10      15
Leu Leu Thr Arg Tyr Tyr Gly Val Ala Tyr Gly Tyr Arg Lys Gly Val
20     25     30
Asp Ile Val Lys Asp Met Gly Gly Phe Leu Gln Lys Leu Thr Glu
35     40     45
Gly Ala Ser Ile Leu Gly Leu Phe Val Met Gly Ala Leu Val Asn Lys
50     55     60
Trp Thr His Val Asn Ile Pro Leu Val Val Ser Thr Ile Thr Gly Gln
65     70     75     80
Asp Gly Gln Thr Arg Val Thr Thr Val Gln Thr Ile Leu Asp Gln Leu
85     90     95
Met Pro Gly Leu Val Pro Leu Leu Leu Thr Phe Ala Cys Met Trp Leu

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Thr Leu Glu Thr Gln Asp Pro Ala Gly Asn Arg Val Ala Gly Asp Ala
 690 695 700
 Pro Ser Tyr Asp Ile Asn Leu Met Ile Pro Ile Ser Thr Gln Pro Ser
 705 710 715 720
 Ile Asn Ser Val Val Asp Asn Ser Glu Pro His Val Gly Pro Leu Gln
 725 730 735
 Lys Gly Asp Ala Thr Asn Asp Thr Thr Pro Thr Leu Ser Gly Ser Ala
 740 745 750
 Ala Pro Gly Asp Ile Val Ser Ile Leu Asp Asn Gly Lys Val Ile Gly
 755 760 765
 Ser Val Thr Ala Asp Ser Asn Gly Lys Trp Thr Phe Thr Pro Asp Ala
 770 775 780
 Ala Leu Ala Asp Gly Lys His Thr Phe Thr Val Thr Ala Thr Asp Ala
 785 790 795 800
 Ala Gly Asn Ser Arg Thr Ser Gly Ser Phe Pro Ile Val Ile Asp Thr
 805 810 815
 Ala Ala Pro Ser Pro Ala Glu Asn Ile Val Ile Asn Asp Asn Val Gly
 820 825 830
 Asp Lys Gln Gly Pro Val Gly Ser Gly Asp Thr Thr Asp Asp Gln Ser
 835 840 845
 Pro Thr Leu Ser Gly Glu Ala Glu Pro Gly Ser Val Val Asp Ile Tyr
 850 855 860
 Asp Asn Asp Glu Lys Ile Gly Ser Val Ile Val Asp Asp Glu Gly Lys
 865 870 875 880
 Trp Ser Tyr Thr Pro Asp Lys Pro Leu Asp Lys Gly Asp His Glu Ile
 885 890 895
 Thr Thr Thr Val Thr Asp Pro Ser Gly Asn Thr Ser Glu Pro Ser Pro
 900 905 910
 Gly Ile Ser Phe Thr Val Asp Pro Asp Pro Asn Gln Val Thr Val Gly
 915 920 925
 Glu Val Val Asp Asp Gln Gly Pro Ile Val Gly Asn Leu Lys Pro Gly
 930 935 940
 Thr Val Thr Asp Asp Val Arg Pro Glu Leu Ser Gly Lys Gly Lys Pro
 945 950 955 960
 Gly Ser Thr Val Thr Ile Lys Asp Gly Asp Asp Val Leu Gly Ser Thr
 965 970 975
 Val Val Asp Pro Asp Gly Asn Trp Thr Phe Thr Pro Glu Gln Asp Leu
 980 985 990
 Ala Asp Gly Asn His Ser Leu Thr Val Val Ser Lys Asp Pro Ala Gly
 995 1000 1005
 Asn Glu Val Thr Ser Pro Ser Phe Asp Ile Thr Val Asp Ala Thr Ala
 1010 1015 1020
 Pro Glu Lys Pro Val Leu Gly Ser Ala Thr Asp Asp Val Gly Thr Ile
 1025 1030 1035 1040
 Arg Gly Asp Leu Ser Asn Gly Ser Thr Thr Asp Asp Ala Asn Pro Thr
 1045 1050 1055
 Phe Asn Gly Ser Ala Glu Pro Gly Ile His Gln Leu Val Lys Arg Phe
 1060 1065 1070
 Gln Gly Arg Phe Gly Met Leu Ile Thr Gln Arg Gln Pro Asp Asn Gly
 1075 1080 1085
 Cys Gln Arg Gly Glu Arg Thr Ala Gly Lys Asp His Tyr Ala Asn His
 1090 1095 1100
 Gly Ala His Arg Glu Leu Ala Arg Val Asp Gln Ile His Thr Gln His
 1105 1110 1115 1120
 Asn Asn Thr Asp Arg Gly Asn Leu Leu Asn Glu Gly Asp Lys Ile Gly
 1125 1130 1135
 Ser Gln His Gly Lys Val Ala Gly Phe His Gly Gly Ser Gly Ser Gln
 1140 1145 1150
 Arg Ala Glu Ile Ile Pro Ala Leu Leu His Asn Ala Phe Thr Leu Arg
 1155 1160 1165
 Ser Phe Gln Gly Phe Lys Ser Leu Asn Ala Phe Asn Gln Gln Ala Leu

1170 1175 1180
 Leu Glu Arg Asn Leu Ala Asn Val Phe Phe His Ile Ala Thr Gln Arg
 1185 1190 1195 1200
 Pro Leu Asn Asn Asp Ala Gly Asn
 1205

<210> 6266
 <211> 190
 <212> PRT
 <213> Enterobacter cloacae

<400> 6266
 Asn Lys Cys Val Cys Pro Ser Phe Arg Thr Glu Gln Gln Gly Glu Cys
 1 5 10 15
 Asn Gly Ser Glu Phe Tyr Ile Trp Pro Glu Asn Asn Ser Phe Leu Ile
 20 25 30
 Glu Gly Ile Leu Gln Tyr Phe Asn Asn Ile Thr Val Lys Ile Ile Ser
 35 40 45
 Gln Pro Ile Val Val Ile Asp Phe Asn Tyr Lys Asn Ile Asn Phe Phe
 50 55 60
 Leu Thr Asn Ser Trp Leu Asp Arg Phe Lys Asn Ala Arg Leu Ile Leu
 65 70 75 80
 Ile Thr Asp Lys Lys Met Ala Ala Ile Ala His Tyr Trp Phe Tyr Asn
 85 90 95
 Asp Thr Ser Glu Thr Ile Ile Ser Thr Val Ile Phe His Asp Asp Ile
 100 105 110
 Ile Asp Asp Ile Lys Phe Lys Ile Arg Gln Ser Phe Leu Gly Lys Ile
 115 120 125
 Thr Arg Pro Ser Glu Lys Lys Ala Lys Leu Ser Ala Asn Glu Tyr Ala
 130 135 140
 Leu Phe Ser Glu Leu Tyr Lys Gly Gln Leu Pro Lys Lys Ile Ala Met
 145 150 155 160
 Lys Asn Ala Thr Asn Val Lys Asn Ile Tyr Ala Met Lys Ile Arg Ile
 165 170 175
 Glu Asn Lys Leu Gly Val Pro Ile Ser Arg Leu Ala Ser
 180 185 190

<210> 6267
 <211> 602
 <212> PRT
 <213> Enterobacter cloacae

<400> 6267
 Lys Asn Ile Asn Leu Asp Gln Ser Thr Tyr Asn Ile Leu Asn His Ala
 1 5 10 15
 Val Val Tyr Leu Tyr Cys Val His Ile Arg Leu Thr Leu His Tyr Asp
 20 25 30
 Ile Ala Ser Ala Cys Asn Phe Thr Ile Thr Ile Ser His Lys Leu Arg
 35 40 45
 Thr Tyr Gly Cys Ser Trp Ser Ile Leu Ile Ala Cys Leu His Phe Ile
 50 55 60
 Phe Lys Val Arg Asn Val Thr Thr Gly Leu Asp Ser Ile Met Asn Thr
 65 70 75 80
 His Leu Ser Thr Val Lys Phe Asn Ser Glu His Asp Phe Asn Asn Ile
 85 90 95
 Glu Glu Pro Arg Lys Asp Ser Leu Leu Trp Gly Val Glu Trp Leu Cys
 100 105 110
 Ala His His Ala Lys Tyr Ala Ser Lys Glu Val Leu Tyr Ala Gly Leu
 115 120 125
 Pro Lys Ser Asp Lys Leu Glu Pro Glu Met Ala Leu Arg Met Leu Asp
 130 135 140

<212> PRT

<213> Enterobacter cloacae

<400> 6268

Lys Thr Ala Ala Leu Pro Gly Ala Gln Gly Gly Arg Met Ser Ala Phe
 1 5 10 15
 Ala Arg Arg Leu Glu Thr Leu His Ala Thr Arg Pro Val Thr Val Leu
 20 25 30
 Gly Ala Ala Val Ile Asp Val Ile Ala Asp Ala Tyr Ala Leu Pro Trp
 35 40 45
 Arg Gly Cys Asp Ile Glu Leu Lys Gln Gln Gly Val Asn Ile Gly Gly
 50 55 60
 Cys Ala Leu Asn Ile Ala Ile Ala Leu Lys Arg Leu Gly Ile Ala Ala
 65 70 75 80
 Gln Asn Ala Leu Pro Val Gly His Gly Val Trp Ala Asp Ile Ile Arg
 85 90 95
 Asn Ala Met Ala Lys Gln Asp Leu His Ser Ala Val Glu Ala Glu Thr
 100 105 110
 Gly Asp Asn Gly Trp Cys Leu Ala Leu Val Glu Pro Asp Gly Glu Arg
 115 120 125
 Thr Phe Met Ser Phe Ser Gly Val Glu Asn Gln Trp Gln Gln Arg Trp
 130 135 140
 Leu Asp Gly Leu Ser Val Pro Ala Gly Ser Leu Ile Ser Leu Ser Gly
 145 150 155 160
 Tyr Gln Leu Ala Ser Pro Ser Gly Glu Leu Leu Thr Ala Trp Leu Glu
 165 170 175
 Ser Leu Gln Asp Ala Thr Leu Phe Ile Asp Phe Gly Pro Arg Ile Ala
 180 185 190
 Asp Ile Pro Asp Pro Leu Met Ala Arg Ile Met Ala Cys Lys Pro Ile
 195 200 205
 Val Ser Leu Asn Arg Gln Glu Ala Glu Leu Ala Ala Glu Trp Leu Gly
 210 215 220
 Val Ser Val Glu Glu Leu Gly Thr Arg Trp Gln Gln Arg Phe Gly Ala
 225 230 235 240
 Ala Leu Ile Ile Arg His Asp Lys Asp Gly Ala Val Trp Tyr Asp Gly
 245 250 255
 Asp Ala Ser Gly His Val Pro Ala Phe Pro Ala Thr Val Val Asp Thr
 260 265 270
 Ile Gly Ala Gly Asp Ser His Ala Gly Gly Thr Leu Ala Gly Leu Ala
 275 280 285
 Ala Gly Trp Ser Leu Pro Glu Ala Val Gln Leu Gly Asn Ala Val Ala
 290 295 300
 Ala Trp Val Val Ser His Arg Gly Gly Asp Cys Ala Pro Thr Arg Glu
 305 310 315 320
 Ala Leu Leu Leu Ala His Lys Asp Val
 325 330

<210> 6269

<211> 335

<212> PRT

<213> Enterobacter cloacae

<400> 6269

Met Lys Gln Asp Arg Ile Leu Gly Ala Leu Tyr Gly Gln Ala Leu Gly
 1 5 10 15
 Asp Ala Met Gly Met Pro Ser Glu Leu Trp Pro Arg Lys Arg Val Lys
 20 25 30
 Ala His Phe Gly Trp Ile Asp Arg Phe Leu Pro Gly Pro Ala Glu Asn
 35 40 45
 Asn Ala Ala Cys Tyr Phe Lys Gln Ala Glu Phe Thr Asp Asp Thr Ser
 50 55 60



Met Ala Leu Cys Leu Ala Asp Ala Ile Ile Glu Cys Glu Gly Glu Ile
65 70 75 80
Asn Pro Asp Val Ile Gly Lys His Ile Leu Asp Trp Ala Leu Asp Phe
85 90 95
Asp Ala Phe Asn Lys Asn Val Leu Gly Pro Thr Ser Lys Ile Ala Leu
100 105 110
Asn Ala Ile Arg Asp Gly Lys Pro Val Ser Gln Leu Glu Asn Asn Gly
115 120 125
Val Thr Asn Gly Ala Ala Met Arg Ala Ser Pro Leu Gly Cys Leu Leu
130 135 140
Pro Ala Thr Arg Leu Ala His Phe Val Glu Gln Val Ala Leu Ala Ser
145 150 155 160
Ser Pro Thr His Lys Ser Asp Leu Ala Ile Ala Gly Ala Val Val Ile
165 170 175
Ala Trp Ala Val Ser Arg Ala Ile Asp Gly Glu Arg Trp Gln Asn Ile
180 185 190
Ala Asp Ala Leu Pro Gly Ile Ala Arg Ala Ala Gln Glu Ala Asn Thr
195 200 205
Thr Thr Phe Ser Ala Ser Leu Ser Ala Arg Ile Glu Leu Ala Leu Lys
210 215 220
Thr Val Arg Glu Ala Asn Gly Thr Glu Ser Ala Ser Glu Gln Ile Tyr
225 230 235 240
Gln Leu Ile Gly Ala Gly Thr Ser Thr Leu Glu Ser Val Pro Ala Ala
245 250 255
Ile Ala Met Val Glu Leu Ala Gly Thr Asp Pro Asn Arg Cys Ala Val
260 265 270
Leu Cys Ala Asn Leu Gly Gly Asp Thr Asp Thr Ile Gly Ala Met Ala
275 280 285
Thr Ala Ile Cys Gly Ala Leu His Gly Val Gln Ala Ile Asp Pro Ala
290 295 300
Leu Lys Asn Glu Leu Asp Ala Val Asn Arg Leu Asp Phe Gly His Tyr
305 310 315 320
Cys Glu Lys Leu Leu His Phe Arg Glu His Arg Glu Gly Val
325 330 335

<210> 6270

<211> 412

<212> PRT

<213> Enterobacter cloacae

<400> 6270

Trp Phe Ile Trp Gly Ala Trp Phe Val Pro Leu Trp Leu Trp Met Ser
1 5 10 15
Lys Ser Gly Phe Thr Ala Gly Glu Ile Gly Trp Ser Tyr Ala Cys Thr
20 25 30
Ala Ile Ala Ala Ile Leu Ser Pro Ile Met Val Gly Ser Leu Thr Asp
35 40 45
Arg Phe Phe Ala Ala Gln Lys Val Leu Ala Val Leu Met Phe Ala Gly
50 55 60
Ala Ile Leu Met Tyr Phe Ala Ala Gln Gln Ile Gln Phe Ser Thr Phe
65 70 75 80
Phe Pro Leu Leu Leu Ala Tyr Ser Leu Thr Tyr Met Pro Thr Ile Ala
85 90 95
Leu Thr Asn Ser Ile Ala Phe Ala Asn Val Asp Asp Val Glu Ala Asp
100 105 110
Phe Pro Arg Ile Arg Val Met Gly Thr Ile Gly Trp Ile Ala Ser Gly
115 120 125
Leu Ala Cys Gly Phe Leu Pro Gln Met Met Gly Tyr Ser Asp Ile Ser
130 135 140
Asp Thr Asn Ile Pro Leu Leu Met Thr Ala Ala Ser Ser Leu Leu Leu
145 150 155 160

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<210> 6271
<211> 298
<212> PRT
<213> Enterobacter cloacae
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<400> 6271																
Thr	Thr	Tyr	Pro	Phe	Gly	Ser	Trp	Pro	Ala	Ser	Arg	Cys	Val	Lys	Thr	
1				5					10					15		
Leu	Cys	Leu	Arg	Val	Ser	Gly	Arg	Ala	Leu	Arg	Ala	Gly	Gly	Thr	Gly	
			20					25					30			
Met	Thr	Arg	Ile	Asn	Ala	Leu	Thr	Ile	Ala	Gly	Thr	Asp	Pro	Ser	Gly	
		35					40					45				
Gly	Ala	Gly	Ile	Gln	Ala	Asp	Leu	Lys	Thr	Phe	Ser	Ala	Leu	Gly	Ala	
	50					55					60					
Tyr	Gly	Cys	Ser	Val	Ile	Thr	Ala	Leu	Val	Ala	Gln	Asn	Thr	Arg	Gly	
65					70					75					80	
Val	Gln	Ser	Val	Tyr	Arg	Ile	Glu	Pro	Asp	Phe	Val	Ala	Ala	Gln	Leu	
				85					90					95		
Asp	Ser	Val	Phe	Ser	Asp	Val	Arg	Ile	Asp	Thr	Thr	Lys	Ile	Gly	Met	
			100					105						110		
Leu	Ala	Glu	Ala	Asp	Ile	Val	Glu	Ala	Val	Ala	Glu	Arg	Leu	Lys	Arg	
			115				120					125				
Tyr	Gln	Ile	Lys	Asn	Val	Val	Leu	Asp	Thr	Val	Met	Leu	Ala	Lys	Ser	
	130					135					140					
Gly	Asp	Pro	Leu	Leu	Ser	Ala	Ser	Ala	Val	Asp	Thr	Leu	Arg	Lys	Lys	
145					150					155					160	
Leu	Leu	Pro	Gln	Val	Ala	Leu	Ile	Thr	Pro	Asn	Leu	Pro	Glu	Ala	Ala	
				165					170						175	

Ala Leu Leu Asp Ala Pro His Ala Gln Asn Glu Arg Glu Met Lys Glu
 180 185 190
 Gln Gly Asn Ala Leu Leu Ala Met Gly Cys Arg Ala Val Leu Met Lys
 195 200 205
 Gly Gly His Leu Asp Asp Ala Glu Ser Pro Asp Trp Leu Phe Thr His
 210 215 220
 Asp Gly Ala Gln Arg Phe Thr Ala Pro Arg Val Gln Thr Lys Asn Thr
 225 230 235 240
 His Gly Thr Gly Cys Thr Leu Ser Ala Ala Leu Ala Ala Leu Arg Pro
 245 250 255
 Arg Asn Ala Asn Trp Ala Asp Thr Val Gln Glu Ala Lys Ile Trp Leu
 260 265 270
 Ser Asp Ala Leu Ala Lys Ala Asp Ser Leu Glu Val Gly His Gly Ile
 275 280 285
 Gly Pro Val His His Phe His Ala Trp Trp
 290 295

<210> 6272

<211> 263

<212> PRT

<213> Enterobacter cloacae

<400> 6272

Ala Val Tyr Trp His Lys Thr Leu Cys Gln Arg Lys Thr Glu Met Glu
 1 5 10 15
 Gln Ala His Thr Arg Leu Ile Ala Gln Leu Lys Glu Arg Ile Ala Ala
 20 25 30
 Pro Asp Asn Thr Pro Leu Tyr Leu Lys Phe Ala Glu Thr Val Lys Asn
 35 40 45
 Ala Val Arg Ser Gly Val Leu Ala His Gly Asn Ile Leu Pro Gly Glu
 50 55 60
 Arg Asp Leu Ser Gln Leu Ala Gly Val Ser Arg Ile Thr Val Arg Lys
 65 70 75 80
 Ala Met Gln Ala Leu Glu Glu Ala Gly Val Val Thr Arg Ala Arg Gly
 85 90 95
 Tyr Gly Thr Gln Ile Asn Asn Ile Phe Glu Tyr Ser Leu Lys Glu Ala
 100 105 110
 Arg Gly Phe Ser Gln Gln Val Val Leu Arg Gly Lys Thr Pro Asn Thr
 115 120 125
 Leu Trp Val Asn Lys Arg Val Val Lys Cys Pro Glu Glu Ile Ala Arg
 130 135 140
 His Leu Ser Leu Ala Pro Asp Ser Asp Val Phe Leu Leu Lys Arg Ile
 145 150 155 160
 Arg Tyr Val Asp Asp Ala Val Ser Ile Glu Glu Ser Trp Val Pro
 165 170 175
 Val Gly Leu Ile Pro Asn Pro Asp Asp Ile Gly Val Ser Leu Tyr Asp
 180 185 190
 Tyr Phe Arg Ser Gln Asn Ile Phe Pro Gln Arg Thr Arg Ser Arg Val
 195 200 205
 Ser Ala Arg Met Pro Asp Ser Glu Phe Gln Ala His Ile Lys Met Asp
 210 215 220
 Asp Lys Ile Pro Val Leu Val Ile Lys Gln Val Ala Leu Asp Gln Gln
 225 230 235 240
 His Arg Pro Ile Glu Tyr Ser Ile Ser Tyr Cys Arg Ser Asp Leu Tyr
 245 250 255
 Val Phe Val Cys Glu Glu
 260

<210> 6273

<211> 543

<212> PRT

<213> Enterobacter cloacae

<400> 6273

Thr Asn Ile Met Asn Thr Thr Pro Glu Leu His Cys Asp Val Leu Ile
 1 5 10 15
 Ile Gly Ser Gly Ala Ala Gly Leu Ser Leu Ala Leu Arg Leu Ala Glu
 20 25 30
 His Gln Asn Val Ile Val Leu Ser Lys Gly Pro Met Ser Glu Gly Ser
 35 40 45
 Thr Phe Tyr Ala Gln Gly Gly Ile Ala Ala Val Phe Asp Glu Thr Asp
 50 55 60
 Ser Ile Ala Ser His Val Glu Asp Thr Leu Ile Ala Gly Ala Gly Ile
 65 70 75 80
 Val Asp Glu His Ala Ala Glu Phe Val Ala Ser Asn Ala Arg His Cys
 85 90 95
 Val Gln Trp Leu Ile Asp Gln Gly Val Leu Phe Asp Thr Gln Val Gln
 100 105 110
 Pro Asn Gly Glu Glu Ser Tyr His Leu Thr Arg Glu Gly Gly His Ser
 115 120 125
 His Arg Arg Ile Leu His Ala Ala Asp Ala Thr Gly Lys Ala Val Glu
 130 135 140
 Thr Thr Leu Val Ser Lys Ala Leu Ser His Pro Asn Ile Arg Val Leu
 145 150 155 160
 Glu Arg Ser Asn Ala Val Asp Leu Ile Ile Ser Asp Lys Ile Gly Leu
 165 170 175
 Pro Gly Thr Arg Arg Val Val Gly Ala Trp Val Trp Asn Arg Asn Lys
 180 185 190
 Glu Lys Val Glu Thr Cys Gln Ala Lys Ala Val Val Leu Ala Thr Gly
 195 200 205
 Gly Ala Ser Lys Val Tyr His Tyr Thr Thr Asn Pro Asp Ile Ala Ser
 210 215 220
 Gly Asp Gly Ile Ala Met Ala Trp Arg Ala Gly Cys Arg Val Ala Asn
 225 230 235 240
 Leu Glu Phe Asn Gln Phe His Pro Thr Ala Leu Phe His Pro Gln Ala
 245 250 255
 Arg Asn Phe Leu Leu Thr Glu Ala Leu Arg Gly Glu Gly Ala Tyr Leu
 260 265 270
 Lys Arg Pro Asp Gly Ser Arg Phe Met Pro Asp Phe Asp Pro Arg Gly
 275 280 285
 Glu Leu Ala Pro Arg Asp Ile Val Ala Arg Ala Ile Asp His Glu Met
 290 295 300
 Lys Arg Leu Gly Val Asp Cys Met Tyr Leu Asp Ile Ser His Lys Pro
 305 310 315 320
 Ala Asp Phe Ile Arg Gln His Phe Pro Met Ile Tyr Glu Lys Leu Leu
 325 330 335
 Ser Leu Gly Ile Asp Leu Thr Arg Asp Pro Val Pro Ile Val Pro Ala
 340 345 350
 Ala His Tyr Thr Cys Gly Gly Val Met Val Asp Asp His Gly Arg Thr
 355 360 365
 Asp Val Asp Gly Leu Tyr Ala Ile Gly Glu Val Ser Tyr Thr Gly Leu
 370 375 380
 His Gly Ala Asn Arg Met Ala Ser Asn Ser Leu Leu Glu Cys Leu Val
 385 390 395 400
 Tyr Gly Trp Ser Ala Ala Glu Asp Ile Thr Lys Arg Met Pro Tyr Ala
 405 410 415
 Arg Pro Thr Thr His Leu Pro Ala Trp Asp Glu Ser Arg Val Glu Asn
 420 425 430
 Pro Asp Glu Leu Val Val Ile Gln His Asn Trp His Glu Leu Arg Leu
 435 440 445
 Phe Met Trp Asp Tyr Val Gly Ile Val Arg Thr Thr Lys Arg Leu Glu
 450 455 460

Arg Ala Leu Arg Arg Ile Met Met Leu Gln Gln Glu Ile Asp Glu Tyr
 465 470 475 480
 Tyr Ala Asn Phe Arg Val Ser Asn Asn Leu Leu Glu Leu Arg Asn Leu
 485 490 495
 Val Gln Val Ala Glu Leu Ile Val Arg Cys Ala Met Met Arg Lys Glu
 500 505 510
 Ser Arg Gly Leu His Tyr Thr Leu Asp Tyr Pro Glu Pro Leu Glu Thr
 515 520 525
 Ser Gly Pro Ser Val Leu Thr Pro Gln Val His Ile Lys Arg
 530 535 540

<210> 6274

<211> 444

<212> PRT

<213> Enterobacter cloacae

<400> 6274

Asn Met Thr Val Thr Thr Phe Ser Glu Leu Glu Leu Asp Glu Ser Leu
 1 5 10 15
 Leu Asn Ala Leu Glu Ser Lys Gly Phe Thr Arg Pro Thr Ala Ile Gln
 20 25 30
 Ala Ala Ala Ile Pro Pro Ala Leu Glu Gly Arg Asp Val Leu Gly Ser
 35 40 45
 Ala Pro Thr Gly Thr Gly Lys Thr Ala Ala Tyr Leu Leu Pro Val Leu
 50 55 60
 Gln His Leu Leu Asp Phe Pro Arg Lys Lys Ser Gly Pro Pro Arg Ile
 65 70 75 80
 Leu Ile Leu Thr Pro Thr Arg Glu Leu Ala Met Gln Val Ala Glu His
 85 90 95
 Ala Arg Glu Leu Ala Ala Asn Thr His Leu Asp Ile Ala Thr Ile Thr
 100 105 110
 Gly Gly Val Ala Tyr Met Asn His Ala Glu Val Phe Ser Glu Asn Gln
 115 120 125
 Asp Ile Val Val Ala Thr Thr Gly Arg Leu Leu Gln Tyr Ile Lys Glu
 130 135 140
 Glu Asn Phe Asp Cys Arg Ala Val Glu Thr Leu Ile Leu Asp Glu Ala
 145 150 155 160
 Asp Arg Met Leu Asp Met Gly Phe Ala Gln Asp Ile Glu His Ile Ala
 165 170 175
 Gly Glu Thr Arg Trp Arg Asn Gln Thr Met Leu Phe Ser Ala Thr Leu
 180 185 190
 Glu Gly Asp Ala Ile Lys Asp Phe Ala Glu Arg Leu Leu Glu Asp Pro
 195 200 205
 Val Glu Val Ser Ala Thr Pro Ser Thr Arg Glu Arg Lys Lys Ile His
 210 215 220
 Gln Trp Tyr Tyr Arg Ala Asp Asn Leu Glu His Lys Val Glu Leu Leu
 225 230 235 240
 Lys His Leu Leu Lys Gln Glu Glu Ala Thr Arg Thr Ile Val Phe Val
 245 250 255
 Arg Lys Arg Glu Arg Val His Glu Leu Ala Glu Met Leu Arg Asn Ala
 260 265 270
 Gly Ile Asn Asn Cys Tyr Leu Glu Gly Glu Met Ala Gln Val Lys Arg
 275 280 285
 Thr Glu Gly Ile Lys Arg Leu Thr Asp Gly Arg Val Asn Val Leu Val
 290 295 300
 Ala Thr Asp Val Ala Ala Arg Gly Ile Asp Ile Pro Asp Val Ser His
 305 310 315 320
 Val Ile Asn Phe Asp Met Pro Arg Ser Gly Asp Thr Tyr Leu His Arg
 325 330 335
 Ile Gly Arg Thr Gly Arg Ala Gly Arg Lys Gly Ile Ala Ile Ser Leu
 340 345 350

Val Glu Ala His Asp His Leu Leu Leu Gln Lys Ile Gly Arg Tyr Val
 355 360 365
 Glu Glu Pro Leu Lys Ala Arg Val Ile Asp Gly Leu Arg Pro Thr Thr
 370 375 380
 Arg Ala Pro Ser Glu Lys Met Thr Gly Lys Pro Ser Lys Lys Ala Leu
 385 390 395 400
 Ala Lys Arg Ala Glu Arg Lys Glu Lys Glu Lys Glu Lys Pro Arg Val
 405 410 415
 Lys Gln Arg His Arg Asp Thr Lys Asn Ile Gly Lys Arg Arg Lys Pro
 420 425 430
 Ser Ser Ala Ala Ser Glu Thr Lys Thr Glu Glu
 435 440

<210> 6275

<211> 132

<212> PRT

<213> Enterobacter cloacae

<400> 6275

Gly Arg Gln His Met Ile Thr Gly Ile Gln Ile Thr Lys Ala Ala Asn
 1 5 10 15
 Asp Asp Leu Leu Asn Ser Phe Trp Leu Leu Asp Ser Glu Lys Asn Glu
 20 25 30
 Ala Arg Cys Val Val Ala Lys Ala Gly Phe Ala Glu Asp Glu Ile Val
 35 40 45
 Pro Val Ser Lys Leu Gly Glu Ile Glu Tyr Arg Glu Ile Pro Met Gln
 50 55 60
 Val Gln Pro Glu Val Arg Val Glu Gly Gly Gln His Leu Asn Val Asn
 65 70 75 80
 Val Leu Arg Arg Glu Thr Leu Met Asp Ala Val Glu His Pro Glu Lys
 85 90 95
 Tyr Pro Gln Leu Thr Ile Arg Val Ser Gly Tyr Ala Val Arg Phe Asn
 100 105 110
 Ser Leu Thr Pro Glu Gln Gln Arg Asp Val Ile Ala Arg Thr Phe Thr
 115 120 125
 Glu Ser Leu
 130

<210> 6276

<211> 363

<212> PRT

<213> Enterobacter cloacae

<400> 6276

Phe Phe Thr Arg Lys Val Glu Gln Met Leu Gln His Arg Gln Gln Val
 1 5 10 15
 Gly Cys Cys Leu Pro Arg Ala Gly Trp Arg Arg Thr Glu His Ile Ala
 20 25 30
 Ala Leu Lys Arg Arg Arg Asn Gly Arg Gly Leu Asn Gly Gly Arg Ala
 35 40 45
 Cys Lys Ala Phe Ala Leu Lys Gly Ile Glu Gln Ala Phe Ile Glu Phe
 50 55 60
 Lys Phe Gly Lys Ser Arg Tyr Ser His Val Leu Pro Leu Cys Gly Ala
 65 70 75 80
 Leu Ile Ile Asp Val Thr Ala Val Ile Phe Ile Cys Leu Tyr Gly Tyr
 85 90 95
 Arg Phe Ser Thr Thr Ser Leu Ser Pro Met Leu Leu Gln Phe His Ser
 100 105 110
 Glu Gly Cys Pro Asp Met Ser Gln Leu Lys Ala Gln Leu Arg Arg Asp
 115 120 125
 Gly Phe Thr Phe Lys Gln Phe Phe Val Ala His Asp Arg Cys Ala Met

130 135 140
 Lys Val Gly Thr Asp Gly Ile Leu Leu Gly Ala Trp Ala Pro Val Ala
 145 150 155 160
 Gly Val Lys Arg Ile Leu Asp Ile Gly Thr Gly Ser Gly Leu Gln Ala
 165 170 175
 Leu Met Leu Ala Gln Arg Thr Glu Glu His Val Thr Ile Asp Ala Val
 180 185 190
 Glu Leu Asp Pro Gln Ala Ala Arg Gln Ala Ser Glu Asn Ala Ala Asp
 195 200 205
 Ser Pro Trp Ala Glu Arg Ile Arg Val Glu Cys Ala Asp Val Leu Thr
 210 215 220
 Trp Ala Pro Glu Gln Thr Ala Arg Tyr Asp Leu Ile Val Ser Asn Pro
 225 230 235 240
 Pro Tyr Phe Thr Pro Gly Val Glu Cys Gly Thr Pro Glu Arg Glu Gln
 245 250 255
 Ala Arg Tyr Thr Gly Ser Leu Asp His Lys Ala Leu Leu Thr Ser Ala
 260 265 270
 Ala Glu Leu Ile Ser Glu Glu Gly Phe Phe Cys Val Val Leu Pro Glu
 275 280 285
 Ser Thr Gly Asn Thr Phe Ile Glu Ile Ala His Glu Ile Gly Trp Asn
 290 295 300
 Leu Arg Leu Arg Thr Asp Ile Ser Asp Thr Glu Gly Arg Leu Pro His
 305 310 315 320
 Arg Val Leu Leu Ala Leu Ser Pro Lys Glu Gly Glu Cys Phe Ile Asp
 325 330 335
 Arg Met Val Ile Arg Gly Pro Asp Gln Arg Tyr Ser Glu Asp Tyr Thr
 340 345 350
 Ala Leu Thr Gln Ala Phe Tyr Leu Phe Met
 355 360

<210> 6277

<211> 138

<212> PRT

<213> Enterobacter cloacae

<400> 6277

Ser Gly Val Ser Ile Thr Arg Gly Ile Trp Phe Gly Glu Thr Leu Pro
 1 5 10 15
 Arg Met Ser Glu Gln Leu Thr Asp Gln Val Leu Val Glu Arg Val Gln
 20 25 30
 Lys Gly Asp Gln Lys Ala Phe Asn Leu Leu Val Val Arg Tyr Gln His
 35 40 45
 Lys Val Ala Ser Leu Val Ser Arg Tyr Val Pro Ser Gly Asp Val Pro
 50 55 60
 Asp Val Val Gln Glu Ser Phe Ile Lys Ala Tyr Arg Ala Leu Asp Ser
 65 70 75 80
 Phe Arg Gly Asp Ser Ala Phe Tyr Thr Trp Leu Tyr Arg Ile Ala Val
 85 90 95
 Asn Thr Ala Lys Asn Tyr Leu Val Ala Gln Gly Arg Arg Pro Pro Ser
 100 105 110
 Ser Asp Val Asp Ala Ile Asp Ala Glu Asn Phe Glu Ser Gly Gly Ala
 115 120 125
 Leu Lys Glu Ile Ser Asn Pro Asp Asn Leu
 130 135

<210> 6278

<211> 305

<212> PRT

<213> Enterobacter cloacae

<400> 6278

Tyr Val Phe Ile Thr Lys Thr Glu Arg Cys Phe Val Ile Tyr Leu Cys
 1 5 10 15
 Leu Arg Ala Arg Ser Ile Leu Glu Val Tyr Val Asp Val Arg Gln Ser
 20 25 30
 Ile His Ser Ala His Ala Lys Met Leu Asp Thr Gln Gly Leu Arg Ser
 35 40 45
 Glu Phe Leu Val Glu Gln Val Phe Glu Ala Asp Lys Tyr Thr Met Val
 50 55 60
 Tyr Ser His Ile Asp Arg Ile Ile Val Gly Gly Ile Met Pro Val Ala
 65 70 75 80
 Lys Thr Val Ser Val Gly Gly Glu Val Gly Lys Gln Leu Gly Val Ser
 85 90 95
 Tyr Phe Leu Glu Arg Arg Glu Leu Gly Val Ile Asn Ile Gly Gly Pro
 100 105 110
 Gly Thr Ile Thr Val Asp Gly Gln Cys Tyr Glu Ile Gly His Arg Asp
 115 120 125
 Ala Leu Tyr Val Gly Lys Gly Ala Lys Glu Val Val Phe Ala Ser Ser
 130 135 140
 Asp Ala Ser Lys Pro Ala Lys Phe Tyr Tyr Asn Cys Ala Pro Ala His
 145 150 155 160
 Thr Thr Tyr Pro Thr Lys Lys Val Thr Pro Ala Asp Val Ala Pro Val
 165 170 175
 Thr Leu Gly Asp Asn Leu Thr Ser Asn Arg Arg Thr Ile Asn Lys Tyr
 180 185 190
 Phe Val Pro Asp Val Leu Glu Thr Cys Gln Leu Ser Met Gly Leu Thr
 195 200 205
 Glu Leu Ala Pro Gly Asn Leu Trp Asn Thr Met Pro Cys His Thr His
 210 215 220
 Glu Arg Arg Met Glu Val Tyr Phe Tyr Phe Asn Met Asp Glu Asp Ala
 225 230 235 240
 Cys Val Phe His Met Met Gly Gln Pro Gln Glu Thr Arg His Ile Val
 245 250 255
 Met His Asn Glu Gln Ala Val Ile Ser Pro Ser Trp Ser Ile His Ser
 260 265 270
 Gly Val Gly Thr Lys Ala Tyr Thr Phe Ile Trp Gly Met Val Gly Glu
 275 280 285
 Asn Gln Val Phe Asp Asp Met Asp His Val Ala Val Lys Asp Leu Arg
 290 295 300

305

<210> 6279

<211> 257

<212> PRT

<213> Enterobacter cloacae

<400> 6279

Gly Thr Asn Met Ile Leu Asp Ala Phe Ser Leu Gln Gly Lys Val Ala
 1 5 10 15
 Val Val Ser Gly Cys Asp Thr Gly Leu Gly Gln Gly Met Ala Leu Gly
 20 25 30
 Leu Ala Glu Ala Gly Cys Asp Ile Val Gly Ile Asn Ile Val Glu Pro
 35 40 45
 Thr Glu Thr Ile Glu Arg Val Thr Ala Leu Gly Arg Arg Phe Leu Ser
 50 55 60
 Leu Thr Ala Asp Leu Arg Lys Ile Asp Ala Ile Pro Glu Leu Leu Asp
 65 70 75 80
 Arg Ala Val Ala Glu Phe Gly His Ile Asp Ile Leu Val Asn Asn Ala
 85 90 95
 Gly Leu Ile Arg Arg Glu Asp Ala Ile Asn Phe Ser Glu Thr Asp Trp
 100 105 110

Asp Asp Val Met Asn Leu Asn Ile Lys Ser Val Phe Phe Met Ser Gln
 115 120 125
 Ala Ala Ala Lys His Phe Ile Ala Gln Gly Lys Gly Gly Lys Ile Ile
 130 135 140
 Asn Ile Ala Ser Met Leu Ser Phe Gln Gly Gly Ile Arg Val Pro Ser
 145 150 155 160
 Tyr Thr Ala Ser Lys Ser Ala Val Met Gly Val Thr Arg Leu Leu Ala
 165 170 175
 Asn Glu Trp Ala Gln His Asn Ile Asn Val Asn Ala Ile Ala Pro Gly
 180 185 190
 Tyr Met Ala Thr Asn Asn Thr Gln Gln Leu Arg Ala Asp Glu Glu Arg
 195 200 205
 Ser Ala Ala Ile Leu Glu Arg Ile Pro Ala Gly Arg Trp Gly Leu Pro
 210 215 220
 Ser Asp Leu Met Gly Pro Val Val Phe Leu Ala Ser Pro Ala Ser Asp
 225 230 235 240
 Tyr Ile Asn Gly Tyr Thr Val Ala Val Asp Gly Gly Trp Leu Ala Arg
 245 250 255

<210> 6280

<211> 519

<212> PRT

<213> Enterobacter cloacae

<400> 6280

Arg Ile Ser Leu Leu Arg Gln Glu Thr Met Thr Ser Val Asn Asp Ser
 1 5 10 15
 Thr Leu Met Pro Ala Ala Leu Arg Asp Thr Arg Arg Met Asn Gln Phe
 20 25 30
 Val Ser Val Ala Ala Ala Val Ala Gly Leu Leu Phe Gly Leu Asp Ile
 35 40 45
 Gly Val Ile Ala Gly Ala Leu Pro Phe Ile Thr Asp His Phe Thr Leu
 50 55 60
 Ser Asn Arg Leu Gln Glu Trp Val Val Ser Ser Met Met Leu Gly Ala
 65 70 75 80
 Ala Ile Gly Ala Leu Phe Asn Gly Trp Leu Ser Phe Arg Leu Gly Arg
 85 90 95
 Lys Tyr Ser Leu Met Val Gly Ala Ile Leu Phe Val Ala Gly Ser Leu
 100 105 110
 Gly Ser Ala Phe Ala Thr Asn Val Glu Val Leu Leu Leu Ser Arg Val
 115 120 125
 Leu Leu Gly Val Ala Val Gly Ile Ala Ser Tyr Thr Ala Pro Leu Tyr
 130 135 140
 Leu Ser Glu Met Ala Ser Glu Asn Val Arg Gly Lys Met Ile Ser Met
 145 150 155 160
 Tyr Gln Leu Met Val Thr Leu Gly Ile Val Leu Ala Phe Leu Ser Asp
 165 170 175
 Thr Tyr Phe Ser Tyr Ser Gly Asn Trp Arg Ala Met Leu Gly Val Leu
 180 185 190
 Ala Leu Pro Ala Val Leu Leu Ile Val Leu Val Ile Phe Leu Pro Asn
 195 200 205
 Ser Pro Arg Trp Leu Ala Gln Lys Gly Arg His Val Glu Ala Glu Glu
 210 215 220
 Val Leu Arg Met Leu Arg Asp Thr Ser Glu Lys Ala Arg Glu Glu Leu
 225 230 235 240
 Asn Glu Ile Arg Glu Ser Leu Lys Leu Lys Gln Gly Gly Trp Ser Leu
 245 250 255
 Phe Lys Ala Asn Arg Asn Val Arg Arg Ala Val Phe Leu Gly Met Leu
 260 265 270

Leu Gln Ala Met Gln Gln Phe Thr Gly Met Asn Ile Ile Met Tyr Tyr
 275 280 285
 Ala Pro Arg Ile Phe Lys Met Ala Gly Phe Thr Thr Thr Glu Gln Gln
 290 295 300
 Met Ile Ala Thr Leu Val Val Gly Leu Thr Phe Met Phe Ala Thr Phe
 305 310 315 320
 Ile Ala Val Phe Thr Val Asp Lys Ala Gly Arg Lys Pro Ala Leu Lys
 325 330 335
 Ile Gly Phe Ser Val Met Ala Leu Gly Thr Leu Ile Leu Gly Tyr Cys
 340 345 350
 Leu Met Gln Phe Asp Asn Gly Thr Ala Ser Ser Gly Leu Ser Trp Leu
 355 360 365
 Ser Val Gly Met Thr Met Met Cys Ile Ala Gly Tyr Ala Met Ser Ala
 370 375 380
 Ala Pro Val Val Trp Ile Leu Cys Ser Glu Ile Gln Pro Leu Lys Cys
 385 390 395 400
 Arg Asp Phe Gly Ile Thr Cys Ser Thr Thr Thr Asn Trp Val Ser Asn
 405 410 415
 Met Ile Ile Gly Ala Thr Phe Leu Thr Leu Leu Asp Ala Ile Gly Ala
 420 425 430
 Ala Gly Thr Phe Trp Leu Tyr Thr Val Leu Asn Val Ala Phe Ile Gly
 435 440 445
 Val Thr Phe Lys Leu Ile Pro Glu Thr Lys Gly Val Asn Pro Gly Thr
 450 455 460
 Tyr Leu Asn Ala Thr Leu Lys Lys Met Gly Lys Thr Pro Val Ile Ser
 465 470 475 480
 Gly Phe Tyr Val Ile Ala Arg Gly Val Pro Pro Thr Phe Arg Gly Ala
 485 490 495
 Leu Leu Pro Phe Ala Pro Ser Val Thr Thr Leu Val Ser Ala Cys Ser
 500 505 510
 Pro Gln His Phe Ser Ser
 515

<210> 6281

<211> 247

<212> PRT

<213> Enterobacter cloacae

<400> 6281

Phe Ser Thr Tyr Ile Thr Arg Ser Lys Glu Cys Ile Met Ala Lys Gly
 1 5 10 15
 Met Arg Val Lys Leu Asn Tyr Glu Val Ser Arg Asp Pro Asp Thr Gly
 20 25 30
 Val Glu Val Thr Arg Leu Thr Pro Pro Glu Val Thr Cys His Arg Asn
 35 40 45
 Tyr Phe Tyr Gln Lys Cys Phe Phe Asn Asp Gly Ser His Leu Leu Phe
 50 55 60
 Ala Gly Glu Phe Asp Gly His Trp Asn Tyr Tyr Leu Leu Asp Leu Lys
 65 70 75 80
 Asn Ala Glu Ala Val Gln Leu Thr Glu Gly Ala Gly Asp Asn Thr Phe
 85 90 95
 Gly Gly Phe Leu Ser Pro Asp Asp Lys Ser Leu Tyr Tyr Val Lys Asn
 100 105 110
 Asp Arg Thr Leu Leu Glu Val Asp Leu Gln Thr Leu Ala Glu Arg Glu
 115 120 125
 Val Tyr Arg Val Pro Glu Glu Trp Val Gly Tyr Gly Thr Trp Val Ala
 130 135 140
 Asn Ser Asp Cys Thr Lys Leu Val Gly Ile Glu Ile Ala Arg Cys Asp
 145 150 155 160
 Trp Thr Pro Leu Asn Asp Trp Lys Ile Phe His Asp Phe Phe His Lys
 165 170 175

Gly Pro His Cys Arg Leu Leu Arg Val Asp Leu Lys Thr Gly Glu Ser
 180 185 190
 Thr Thr Ile His Asp Glu Lys Ile Trp Leu Gly His Pro Ile Tyr Arg
 195 200 205
 Pro Phe Asp Asp Asn Thr Val Ala Phe Cys His Glu Gly Pro His Asp
 210 215 220
 Leu Val Asp Ala Arg Met Trp Leu Val Asn Glu Asp Gly Ser Asn Val
 225 230 235 240
 Arg Lys Val Lys Thr His Ala
 245

<210> 6282

<211> 287

<212> PRT

<213> Enterobacter cloacae

<400> 6282

Tyr Gly Leu Asp Pro Ala Thr Gly Pro Ile Gly Arg Pro Ala Met Val
 1 5 10 15
 Ser Lys Lys Lys Thr Arg Val Val Asp Val Val Lys Asn Ala Pro
 20 25 30
 Leu Lys Thr Lys Thr Tyr Glu Gln Glu Leu Arg Arg Leu His Val Glu
 35 40 45
 Leu Val Lys Leu Gln Gln Trp Val Val Ala Lys Gly Leu Lys Val Cys
 50 55 60
 Ile Val Phe Glu Gly Arg Asp Gly Ala Gly Lys Gly Gly Val Ile Lys
 65 70 75 80
 Ala Ile Thr Glu Arg Val Ser Pro Arg Val Phe Arg Val Val Ala Leu
 85 90 95
 Pro Ala Pro Thr Asp Lys Glu Lys Ser Gln Leu Tyr Phe Gln Arg Tyr
 100 105 110
 Val Pro His Leu Pro Ser Ala Gly Glu Ile Val Ile Phe Asp Arg Ser
 115 120 125
 Trp Tyr Asn Arg Ala Gly Val Glu Lys Val Met Gly Phe Cys Thr Glu
 130 135 140
 Glu Gln Ala Glu Lys Phe Leu Asp Gly Thr Pro Val Met Glu Lys Ala
 145 150 155 160
 Met Val Asp Ala Gly Ile Ile Leu Leu Lys Tyr Trp Leu Glu Val Thr
 165 170 175
 Pro Lys Glu Gln Glu Arg Arg Leu Arg Asp Arg Ile Asn Asp Gly Arg
 180 185 190
 Lys Ile Trp Lys Leu Ser Pro Met Asp Ile Lys Ser Phe Asn Leu Trp
 195 200 205
 Asp Glu Tyr Thr Leu Ala Arg Asp Ala Met Phe Lys Ala Thr Asp Thr
 210 215 220
 Ala Trp Ala Pro Trp Phe Val Ala Arg Ser Glu Asp Lys Lys Arg Val
 225 230 235 240
 Arg Leu Asn Ile Ile Ser His Leu Leu Ser Gln Ile Pro Tyr Lys Glu
 245 250 255
 Ile His Val Asp Lys Val Asp Leu Pro Lys Arg Lys Ile Gly Lys Val
 260 265 270
 Lys Pro Thr Lys Tyr Pro Phe Arg Tyr Ile Ala Glu Arg Phe
 275 280 285

<210> 6283

<211> 310

<212> PRT

<213> Enterobacter cloacae

<400> 6283

Arg Ile Asp Ala Ile Ser Phe Pro Phe Asp Phe Leu Lys Thr Gly Arg

1 5 10 15
 Val Met Asp Arg Lys Arg Ala Thr Leu Thr Gly Leu Ala Ala Ile Leu
 20 25 30
 Leu Trp Ser Thr Met Val Gly Leu Ile Arg Ser Val Ser Glu Gly Leu
 35 40 45
 Gly Pro Val Gly Gly Ala Ala Met Ile Tyr Thr Val Ser Gly Leu Leu
 50 55 60
 Cys Leu Val Thr Val Gly Phe Pro Asp Leu Arg Arg Phe Ser Arg Arg
 65 70 75 80
 Tyr Leu Phe Ala Gly Ser Ile Leu Phe Val Ser Tyr Glu Met Cys Leu
 85 90 95
 Ala Leu Ser Leu Gly Tyr Ala Ala Thr Arg Ser Gln Ala Ile Glu Val
 100 105 110
 Gly Met Val Asn Tyr Leu Trp Pro Ser Leu Thr Ile Ala Phe Ala Ile
 115 120 125
 Leu Phe Asn Gly Gln Lys Ser Thr Leu Trp Val Ile Pro Gly Leu Leu
 130 135 140
 Ile Ser Leu Leu Gly Val Cys Trp Val Leu Gly Gly Glu Asn Gly Leu
 145 150 155 160
 Gln Leu Asn Asp Ile Met Gln Asn Val Val Ser Ser Pro Leu Ser Tyr
 165 170 175
 Gly Leu Ala Phe Ala Gly Ala Phe Ile Trp Ala Ala Tyr Cys Thr Val
 180 185 190
 Thr Ser Lys Tyr Ala Lys Gly Gln Asn Gly Ile Thr Leu Phe Val Leu
 195 200 205
 Leu Thr Ala Leu Ser Leu Trp Val Lys Tyr Ala Val Ser Asp Gln Pro
 210 215 220
 Glu Met Val Phe Ser Val Pro Val Val Val Lys Leu Leu Met Cys Gly
 225 230 235 240
 Val Ala Leu Gly Phe Gly Tyr Ala Ala Trp Asn Ile Gly Ile Leu His
 245 250 255
 Gly Asn Val Thr Val Leu Ala Ala Val Ser Tyr Phe Thr Pro Val Leu
 260 265 270
 Ser Ala Ala Leu Ala Ala Ile Val Leu Ser Ser Pro Leu Ser Phe Ser
 275 280 285
 Phe Trp Gln Gly Ala Leu Met Val Cys Ala Gly Ser Leu Leu Cys Trp
 290 295 300
 Tyr Ala Thr Arg Lys
 305 310

<210> 6284

<211> 177

<212> PRT

<213> Enterobacter cloacae

<400> 6284

Gly Leu Phe Lys Met Lys Leu Lys Leu Val Ala Val Ala Val Thr Ser
 1 5 10 15
 Met Leu Ala Ala Gly Val Val Asn Ala Ala Glu Val Phe Asn Lys Asp
 20 25 30
 Gly Asn Lys Leu Asp Leu Tyr Gly Lys Val Thr Gly Leu His Tyr Phe
 35 40 45
 Ser Asp Asp Ala Gly Ser Asp Gly Asp Lys Thr Tyr Val Arg Leu Gly
 50 55 60
 Phe Lys Gly Glu Thr Gln Ile Asn Asp Gln Leu Thr Gly Tyr Gly Gln
 65 70 75 80
 Trp Glu Tyr Glu Phe Lys Gly Asn Arg Ser Glu Ala Gln Gly Ser Asp
 85 90 95
 Gly Asn Lys Thr Arg Leu Ala Tyr Ala Gly Leu Lys Phe Asp Glu Phe
 100 105 110
 Gly Ser Phe Asp Tyr Gly Arg Asn Tyr Gly Val Ala Tyr Asp Ile Gly

115 120 125
 Ala Trp Thr Asp Val Leu Pro Glu Phe Gly Gly Asp Thr Trp Thr Gln
 130 135 140
 Thr Asp Gly Phe Met Thr Gly Arg Thr Thr Gly Val Ala Thr Tyr Arg
 145 150 155 160
 Asn Thr Asp Phe Phe Gly Leu Val Asp Gly Leu Asn Val Ala Ala Gln
 165 170 175
 Tyr

<210> 6285
 <211> 94
 <212> PRT
 <213> Enterobacter cloacae

<400> 6285
 Phe Asp Ala Ile Lys Lys Gly Ala Leu Leu Leu Val Cys Arg Ala Lys
 1 5 10 15
 Ser Tyr Gln Ile Thr Arg Thr Thr Met Asp Val Ser Arg Arg Gln Phe
 20 25 30
 Phe Lys Ile Cys Ala Gly Gly Met Ala Gly Thr Thr Ala Ala Met Leu
 35 40 45
 Gly Phe Ala Pro Lys Met Ala Leu Ala Gln Ala Arg Asn Tyr Lys Leu
 50 55 60
 Leu Arg Ala Lys Glu Ile Arg Asn Thr Cys Thr Tyr Cys Ser Val Gly
 65 70 75 80
 Cys Gly Leu Leu Met Tyr Ser Leu Gly Asp Gly Ala Lys
 85 90

<210> 6286
 <211> 111
 <212> PRT
 <213> Enterobacter cloacae

<400> 6286
 Ser Arg Gly Ala Leu Cys Pro Glu Arg Gly Gly Ala Val Gly Leu Arg
 1 5 10 15
 Ser Thr Val Lys Thr Val Leu Arg Tyr Pro Glu Tyr Arg Ala Pro Gly
 20 25 30
 Ser Asp Lys Trp Gln Arg Ile Ser Trp Asp Asp Ala Phe Ser Arg Ile
 35 40 45
 Ala Lys Leu Met Lys Ala Asp Arg Asp Ala Asn Phe Ile Glu Lys Asn
 50 55 60
 Glu Gln Gly Ile Thr Val Asn Arg Trp Thr Ser Thr Gly Met Leu Cys
 65 70 75 80
 Ala Ser Ala Ala Ser Asn Glu Thr Gly Met Leu Thr Gln Lys Phe Val
 85 90 95
 Arg Ser Leu Gly Met Leu Ala Val Asp Asn Gln Ala Arg Val
 100 105 110

<210> 6287
 <211> 820
 <212> PRT
 <213> Enterobacter cloacae

<400> 6287
 His Gly Pro Thr Val Ala Ser Leu Ala Pro Thr Phe Gly Arg Gly Ala
 1 5 10 15
 Met Thr Asn His Trp Val Asp Ile Lys Asn Ala Asn Val Val Val Val
 20 25 30
 Met Gly Gly Asn Ala Ala Glu Ala His Pro Val Gly Phe Arg Trp Ala

[illegible]

Leu Leu Arg Asp Asp Gly Thr Thr Ala Ser Ser Cys Trp Ile Tyr Thr
 530 535 540
 Gly Ser Trp Thr Glu Gln Gly Asn Gln Met Ala Asn Arg Asp Asn Ala
 545 550 555 560
 Asp Pro Ser Gly Leu Gly Asn Thr Leu Gly Trp Ala Trp Ala Trp Pro
 565 570 575
 Leu Asn Arg Arg Val Leu Tyr Asn Arg Ala Ser Ala Asp Val Asn Gly
 580 585 590
 Lys Pro Trp Asp Pro Lys Arg Met Leu Ile Glu Trp Asn Gly Thr Lys
 595 600 605
 Trp Thr Gly Asn Asp Ile Pro Asp Phe Asn Thr Ala Ala Pro Gly Ser
 610 615 620
 Asn Thr Gly Pro Phe Ile Met Gln Pro Glu Gly Leu Gly Arg Leu Phe
 625 630 635 640
 Ala Ile Asp Lys Leu Ala Glu Gly Pro Phe Pro Glu His Tyr Glu Pro
 645 650 655
 Met Glu Thr Pro Leu Gly Thr Asn Pro Leu His Pro Asn Val Val Ser
 660 665 670
 Ser Pro Val Val Arg Ile Tyr Glu Asp Asp Val Leu Arg Leu Gly Lys
 675 680 685
 Lys Asp Lys Phe Pro Tyr Val Gly Thr Thr Tyr Arg Leu Thr Glu His
 690 695 700
 Phe His Thr Trp Thr Lys His Ala Arg Leu Asn Ala Ile Ala Gln Pro
 705 710 715 720
 Glu Gln Phe Val Glu Ile Ser Glu Thr Leu Ala Lys Ala Lys Gly Ile
 725 730 735
 Ala Asn Gly Asp Arg Val Lys Val Ser Ser Lys Arg Gly Phe Ile Arg
 740 745 750
 Ala Val Ala Val Val Thr Arg Arg Leu Gln Thr Leu Asn Val His Gly
 755 760 765
 Gln Gln Val Glu Thr Val Gly Ile Pro Leu His Trp Gly Phe Glu Gly
 770 775 780
 Val Ala Gln Lys Gly Tyr Ile Ala Asn Thr Leu Thr Pro Asn Val Gly
 785 790 795 800
 Asp Ser Asn Ser Gln Thr Pro Glu Tyr Lys Ala Phe Leu Val Asn Ile
 805 810 815
 Glu Lys Ala
 820

<210> 6288

<211> 239

<212> PRT

<213> Enterobacter cloacae

<400> 6288

Phe Ile Thr Thr Ser Val Ser Gly Arg Ile Lys Arg Trp Met Thr Thr
 1 5 10 15
 Arg Arg Ser Ile Met Ser Lys Ser Lys Met Ile Val Arg Thr Lys Phe
 20 25 30
 Val Asp Arg Ala Cys His Trp Thr Val Val Ile Cys Phe Phe Leu Val
 35 40 45
 Ala Val Ser Gly Ile Ser Phe Phe Phe Pro Thr Leu Gln Trp Leu Thr
 50 55 60
 Glu Thr Phe Gly Thr Pro Gln Met Gly Arg Ile Leu His Pro Phe Phe
 65 70 75 80
 Gly Val Leu Ile Phe Val Val Leu Met Phe Met Phe Val Arg Phe Val
 85 90 95
 His His Asn Ile Pro Asp Lys Gln Asp Ile Pro Trp Leu Lys Gly Ile
 100 105 110
 Val Glu Val Leu Lys Gly Asn Glu His Lys Val Ala Lys Val Gly Lys
 115 120 125

Tyr Asn Ala Gly Gln Lys Met Met Phe Trp Thr Ile Met Ser Met Ile
 130 135 140
 Phe Val Leu Leu Val Thr Gly Val Ile Ile Trp Arg Pro Tyr Phe Ala
 145 150 155 160
 His Tyr Phe Pro Ile Gln Val Val Arg Tyr Ala Leu Leu Ile His Ala
 165 170 175
 Thr Ser Ala Ile Ile Leu Ile His Ala Ile Leu Ile His Met Tyr Met
 180 185 190
 Ala Phe Trp Val Lys Gly Ser Ile Lys Gly Met Ile Glu Gly Lys Val
 195 200 205
 Ser Arg Trp Ala Gln Lys His His Pro Arg Trp Tyr Arg Asp Val
 210 215 220
 Glu Arg Leu Glu Ala Gln Lys Glu Ser Ser Glu Gly Leu Lys
 225 230 235

<210> 6289

<211> 90

<212> PRT

<213> Enterobacter cloacae

<400> 6289

Phe Glu Leu Val His His Thr Ser Leu Ile Asn Asn Ala Arg Cys Val
 1 5 10 15
 Phe Phe Asn Ser Gly Arg Gly Met Lys Lys Thr Ile Phe Ser Leu Ala
 20 25 30
 Leu Ala Thr Phe Gly Leu Gly Met Ala Glu Phe Gly Ile Met Gly Val
 35 40 45
 Leu Thr Glu Leu Ala His Asp Thr Gly Ile Ser Ile Pro Ser Ala Gly
 50 55 60
 Asn Met Ile Ser Phe Tyr Pro Phe Gly Val Val Ile Ser Ala Pro Ile
 65 70 75 80
 Val Ala Leu Phe Ser Thr Asn Phe Arg
 85 90

<210> 6290

<211> 295

<212> PRT

<213> Enterobacter cloacae

<400> 6290

Met Ala Met Glu Thr Gln Asp Ile Ile Lys Arg Ser Ala Thr Asn Pro
 1 5 10 15
 Ile Thr Pro Ala Pro Arg Ala Arg Asp Tyr Lys Ala Glu Val Ala Lys
 20 25 30
 Leu Ile Asp Val Ser Ser Cys Val Gly Cys Lys Ala Cys Gln Val Ala
 35 40 45
 Cys Ser Glu Trp Asn Asp Ile Arg Asp Glu Val Gly His Cys Val Gly
 50 55 60
 Val Tyr Asp Asn Pro Ala Asp Leu Ser Ala Lys Ser Trp Thr Val Met
 65 70 75 80
 Arg Phe Ser Glu Thr Asp Gln Asn Gly Lys Leu Glu Trp Leu Ile Arg
 85 90 95
 Lys Asp Gly Cys Met His Cys Glu Asp Pro Gly Cys Leu Lys Ala Cys
 100 105 110
 Pro Ser Ala Gly Ala Ile Ile Gln Tyr Ala Asn Gly Ile Val Asp Phe
 115 120 125
 Gln Gln Asp Asn Cys Ile Gly Cys Gly Tyr Cys Ile Ala Gly Cys Pro
 130 135 140
 Phe Asn Ile Pro Arg Leu Asn Lys Glu Asp Asn Arg Val Tyr Lys Cys
 145 150 155 160
 Thr Leu Cys Val Asp Arg Val Ser Val Gly Gln Glu Pro Ala Cys Val

			165				170				175			
Lys	Thr	Cys	Pro	Thr	Gly	Ala	Ile	His	Phe	Gly	Thr	Lys	Lys	Glu
			180					185					190	Met
Leu	Glu	Val	Ala	Gln	Gln	Arg	Val	Asp	Lys	Leu	Lys	Ala	Arg	Gly
		195					200					205		Tyr
Asp	Lys	Ala	Gly	Ile	Tyr	Asn	Pro	Gln	Gly	Val	Gly	Gly	Thr	His
	210					215					220			Val
Met	Tyr	Val	Leu	His	His	Asn	Asp	Gln	Pro	Glu	Leu	Tyr	His	Asn
	225				230					235				240
Pro	Lys	Asp	Pro	Ala	Ile	Asp	Thr	Ser	Ile	Asn	Leu	Trp	Lys	Gly
			245						250				255	Ala
Leu	Lys	Pro	Leu	Ser	Ala	Ala	Gly	Phe	Ile	Ala	Thr	Phe	Ala	Gly
		260						265					270	Leu
Ile	Tyr	His	Tyr	Ile	Gly	Ile	Gly	Pro	Asn	Lys	Glu	Val	Asp	Asp
	275					280						285		Asp
Glu	Glu	Glu	His	His	Glu									
	290					295								

<210> 6291

<211> 99

<212> PRT

<213> Enterobacter cloacae

<400> 6291

Trp	Arg	Asn	Cys	Val	Arg	Ile	Glu	Thr	Ser	Leu	Phe	Thr	Thr	Pro	Glu
1				5				10						15	
Cys	Met	Lys	Ala	Ile	Thr	Leu	Tyr	Asp	Val	Ala	Arg	Val	Ala	Gly	Val
			20					25					30		
Lys	Lys	Lys	Lys	Lys	Lys	Lys	Lys	Lys	Lys	Lys	Lys	Lys	Lys	Lys	Lys
	35					40					45				
Lys	Lys	Lys	Lys	Lys	Lys	Val	Arg	Gln	Ala	Met	Ala	Ala	Leu	His	Tyr
	50				55					60					
Val	Pro	Asn	Arg	Gly	Ala	Gln	Gln	Leu	Ala	Gly	Lys	Arg	Thr	Arg	Thr
	65			70					75					80	
Leu	Gly	Pro	Ile	Thr	Ser	Ile	Tyr	Leu	Ala	Gly	Thr	Ile	Gln	Arg	
			85					90					95		
Leu	Gln	Leu													

<210> 6292

<211> 151

<212> PRT

<213> Enterobacter cloacae

<400> 6292

Pro	Gly	Gln	Arg	Cys	Cys	Cys	Cys	Gly	Ser	Arg	Cys	Val	Ser	Cys	Arg
1				5				10						15	
Gly	Leu	Gly	Thr	Ile	Ser	Asn	Val	Ile	Cys	Ile	Val	Gln	Ala	Ala	Asp
		20					25					30			
Ala	Ser	Met	Ala	Leu	Ile	Pro	Glu	Leu	Thr	Ser	Leu	Pro	Val	Arg	Ile
	35					40					45				
Thr	Leu	Leu	Val	Ser	Gly	Ile	Val	Val	Asn	Ala	Leu	Ala	Thr	Gly	Met
	50				55					60					
Tyr	Ile	Gly	Ala	Gly	Phe	Gly	Ala	Gly	Pro	Arg	Asp	Gly	Leu	Met	Thr
	65			70				75						80	
Gly	Ile	His	Ala	Arg	Leu	Gly	Trp	Ser	Ile	Arg	Ser	Val	Arg	Thr	Ala
		85					90						95		
Ile	Glu	Val	Thr	Val	Leu	Ile	Val	Gly	Tyr	Leu	Leu	Gly	Gly	Ala	Phe
		100					105					110			
Gly	Val	Gly	Thr	Val	Leu	Tyr	Ala	Leu	Thr	Ile	Gly	Pro	Leu	Ile	Gln
	115					120						125			

Leu Cys Leu Pro Trp Phe Arg Gln Arg Pro Arg Ile Gln Lys Ala Ala
 130 135 140
 Gln Pro Glu Arg Ile Val
 145 150

<210> 6293

<211> 161

<212> PRT

<213> Enterobacter cloacae

<400> 6293

Leu Gln Gly Gln Ala His Glu Gly Gly Phe Met Lys Ile Gly Glu Leu
 1 5 10 15
 Ala Arg Lys Ala Gly Cys Pro Val Glu Thr Ile Arg Tyr Tyr Glu Lys
 20 25 30
 Glu Gly Leu Leu Gln Ala Pro Leu Arg Asp Ile Glu Asn Asn Tyr Arg
 35 40 45
 His Tyr Asp Asn Asn His Leu Glu Lys Leu Leu Phe Ile Arg Arg Cys
 50 55 60
 Arg Ser Leu Asp Met Thr His Glu Glu Ile Arg Ala Leu Leu Ala
 65 70 75 80
 Ile Asn Asn Asn Gly Lys Glu Cys Gly Pro Ile Asp Ala Ile Ile Ser
 85 90 95
 Ala His Leu Ala His Val Gln His Arg Ile Asn Glu Leu Ile Ala Leu
 100 105 110
 Glu Lys Gln Leu Gln Glu Leu Asn Asp Val Cys Asn Ala Asp Arg Ser
 115 120 125
 Val Asp Glu Cys Gly Ile Val Gln Lys Leu Thr Ala Glu Asp Glu Asp
 130 135 140
 Arg Asp Leu Pro Leu Thr Val Pro Thr Asp His Leu Gly Gly Val His
 145 150 155 160

<210> 6294

<211> 156

<212> PRT

<213> Enterobacter cloacae

<400> 6294

Val Met Asn Ile Gly Lys Ala Ser Ser Glu Ser Gly Ile Ser Ala Lys
 1 5 10 15
 Met Ile Arg Tyr Tyr Glu Gln Ile Gly Leu Ile Pro Ala Thr Gly Arg
 20 25 30
 Thr Glu Ala Gly Tyr Arg Asp Tyr Ala Pro Asn Asp Ile His Arg Leu
 35 40 45
 Ile Phe Ile Arg Ser Ala Arg Asp Leu Gly Phe Ser Leu Glu Glu Ile
 50 55 60
 Glu Gly Leu Leu Lys Leu Trp Asn Asp Lys Ser Arg Gln Ser Ser Asp
 65 70 75 80
 Val Lys Arg Leu Ala Gln Glu His Ile Asn Asp Leu Asp Arg Arg Ile
 85 90 95
 Glu Ser Met Arg Gln Met Ala Asp Thr Leu Arg Val Leu Ile Gln Ser
 100 105 110
 Cys Ala Gly Asp Glu Arg Ala Glu Cys Pro Ile Leu His Arg Leu Thr
 115 120 125
 Ile Ala Asp Asp Ile Ser His Ser Gly Lys Arg Glu Gly Ala Val Gln
 130 135 140
 Arg Arg Ser Arg Gly Asn Arg Val Ser Lys Asp
 145 150 155

<210> 6295
 <211> 81
 <212> PRT
 <213> Enterobacter cloacae

<400> 6295
 Asn Leu Val Ile Arg Gly His Met Ile Thr Lys Thr Tyr Ala Asp Ser
 1 5 10 15
 Val Val Lys Asp Ile Val Gln Trp Val Glu Asn Ser Leu Thr Ser Thr
 20 25 30
 Leu Leu Val Glu Glu Ile Ala Glu Lys Ser Gly Tyr Ser Arg Trp His
 35 40 45
 Phe Gln Arg Ile Phe Lys His Ala Thr Gly Ile Ala Leu Gly Glu Tyr
 50 55 60
 Val Lys Pro Asp Asp Tyr Leu Cys Cys Arg Arg Val Glu Thr Asn Tyr
 65 70 75 80

<210> 6296
 <211> 547
 <212> PRT
 <213> Enterobacter cloacae

<400> 6296
 Gly Cys Ser Ile Ser Glu Pro Asn Asp Glu Lys Tyr Ile Met Ser Ile
 1 5 10 15
 Gln Lys Lys Gln His Ser Asn Asp Ala Glu Thr Gln Val Ser Leu Pro
 20 25 30
 Ile Glu Gly Met Thr Cys Ala Ser Cys Val Gly Arg Val Glu Ala Ala
 35 40 45
 Leu Thr Lys Val Glu Gly Val Glu Ser Val Ser Val Asn Leu Ala Thr
 50 55 60
 Glu Arg Ala Asp Ile Leu Leu Asn Thr Pro Val Glu Arg Met Ala Leu
 65 70 75 80
 Ile Lys Ala Ile Glu Asn Val Gly Tyr Glu Val Pro Leu Thr Ser Val
 85 90 95
 Glu Leu Ser Val Gln Gly Met Thr Cys Ala Ser Cys Val Gly Arg Val
 100 105 110
 Glu Lys Ala Leu Arg Ala Val Glu Gly Val Lys Asp Ala Thr Val Asn
 115 120 125
 Leu Ala Thr Glu Arg Ala Thr Ile Arg Gly Val Ala Gly Thr Asp Asp
 130 135 140
 Leu Ile Ala Ala Ile Glu Lys Val Gly Tyr Glu Ala Ser Leu Val Asp
 145 150 155 160
 Thr Arg Gly Gln Asn Asn Val Glu Ala Ala Glu Lys Lys Asp Ala Glu
 165 170 175
 Lys Ala Ala Leu Lys Lys Asp Leu Val Leu Ala Thr Ile Leu Ala Leu
 180 185 190
 Pro Val Phe Ile Met Glu Met Gly Ser His Leu Ile Pro Gly Met His
 195 200 205
 Gln Trp Ile Met Asp Thr Ile Gly Leu Gln Glu Ser Trp Tyr Leu Gln
 210 215 220
 Phe Val Leu Thr Leu Leu Val Leu Val Ile Pro Gly Arg Arg Phe Tyr
 225 230 235 240
 Leu Lys Gly Ile Pro Ala Leu Ile Arg Leu Gly Pro Asp Met Asn Ser
 245 250 255
 Leu Val Ser Val Gly Thr Leu Ala Ala Phe Gly Tyr Ser Met Val Ala
 260 265 270
 Thr Phe Ala Pro Gly Leu Leu Pro Gln Gly Thr Val Asn Val Tyr Tyr
 275 280 285

Glu Ala Ala Ala Val Ile Val Ala Leu Ile Leu Leu Gly Arg Phe Met
 290 295 300
 Glu Ala Arg Ala Lys Gly Arg Thr Ser Glu Ala Ile Lys Arg Leu Val
 305 310 315 320
 Gly Leu Gln Ala Lys Glu Ala His Val Leu Arg Asn Gly Val Val Val
 325 330 335
 Asp Ile Pro Ile Asn Asp Val Val Leu Asp Asp Ile Ile Glu Val Arg
 340 345 350
 Pro Gly Glu Arg Val Pro Val Asp Gly Glu Val Ser Glu Gly Thr Ser
 355 360 365
 Phe Val Asp Glu Ser Met Ile Thr Gly Glu Pro Ile Pro Val Glu Lys
 370 375 380
 Val Pro Gly Ser Leu Met Val Gly Gly Thr Val Asn Gln Lys Gly Ala
 385 390 395 400
 Leu Arg Leu Arg Ala Thr Ala Val Gly Gly Gln Thr Met Leu Ser Gln
 405 410 415
 Ile Ile Arg Met Val Glu Gln Ala Gln Gly Ser Lys Leu Pro Ile Gln
 420 425 430
 Ala Val Val Asp Lys Val Thr Leu Trp Phe Val Pro Val Val Met Leu
 435 440 445
 Ala Ala Leu Leu Thr Phe Leu Ala Trp Leu Thr Phe Gly Pro Ser Pro
 450 455 460
 Ala Leu Ser Phe Ala Leu Val Asn Ala Val Ala Val Leu Ile Ile Ala
 465 470 475 480
 Cys Pro Cys Ala Met Gly Leu Ala Thr Pro Thr Ser Ile Met Val Gly
 485 490 495
 Thr Gly Arg Gly Ala Glu Met Gly Ile Leu Phe Arg Lys Gly Glu Ala
 500 505 510
 Leu Gln Leu Leu Lys Asp Ala Lys Val Val Ala Val Asp Lys Thr Gly
 515 520 525
 Thr Leu Thr Glu Gly Ala Pro Arg Asn Asp Arg Pro Gly Val Ser Arg
 530 535 540
 Arg Val
 545

<210> 6297

<211> 852

<212> PRT

<213> Enterobacter cloacae

<400> 6297

Leu Thr Gly Glu Ala Ile Lys Met Ser Gly Ser Val Lys Asn Ser Lys
 1 5 10 15
 Thr Gln Val Arg Glu Glu Ser Ala Gly Cys Cys Glu Lys Ile Asn Leu
 20 25 30
 Ile Val Gly Ser Lys Met Gln Arg Ser Glu Glu Pro Ala Lys Ala His
 35 40 45
 Gly His Ala His Asp His Lys Asp Cys Ser Ala Glu Leu Ser His Lys
 50 55 60
 Glu His Gly His Gly Ser Asp Lys His Leu His Arg Glu Gln Gly His
 65 70 75 80
 Val Lys Gly Gly His Ala His Glu Gly Cys Ser His Glu His Ser His
 85 90 95
 Thr Asp Glu Glu His Asp His Gly Glu Glu His Ser His Gly Asp
 100 105 110
 His Gln His Lys Gly Cys Asn His Asp His Ala Gln Asp Asp Gln Ala
 115 120 125
 Asp Glu His His Gly His Ser Gly Asp Cys Cys Ser Gly Ala Pro Thr
 130 135 140
 Asn Leu Ser Asn Leu Gly Gly Ser Lys Val Val Ala Gly Gly Leu Arg
 145 150 155 160

Thr Glu Ile Arg Ile Met Gln Met Asp Cys Pro Val Glu Glu Asn Leu
 165 170 175
 Ile Lys Lys Lys Leu Gly Ala Met Thr Ser Val Lys Glu Leu Asp Phe
 180 185 190
 Asn Leu Met Gln Arg Val Leu Thr Val Thr His Thr Pro Asp Ser Leu
 195 200 205
 Glu Pro Ile Leu Val Ala Ile Arg Ser Leu Gly Phe Val Pro Glu Val
 210 215 220
 Ser Asp Asn Asn Gly Glu Lys Lys Asn Ile Gln Glu Lys Lys Lys Pro
 225 230 235 240
 Trp Trp Pro Leu Ala Leu Ala Gly Val Ala Ala Leu Ala Ala Glu Val
 245 250 255
 Met His Trp Ala Asp Met Pro Asp Trp Leu Glu Ala Gly Leu Ala Leu
 260 265 270
 Ile Ala Val Leu Leu Ser Gly Leu Thr Thr Tyr Lys Lys Gly Trp Ile
 275 280 285
 Ser Ile Arg Asn Gly Asn Leu Asn Ile Asn Ala Leu Met Ser Ile Ala
 290 295 300
 Val Thr Gly Ala Leu Val Leu Gly Gln Trp Pro Glu Ala Ala Met Val
 305 310 315 320
 Met Val Leu Phe Thr Ile Ala Glu Leu Ile Glu Ala Lys Ser Leu Asp
 325 330 335
 Arg Ala Arg Asn Ala Ile Gly Ser Leu Met Ser Leu Thr Pro Glu Thr
 340 345 350
 Ala Met Val Gln Gln Thr Asp Gly Ser Trp Gln Glu Val Asp Ala Ser
 355 360 365
 Ser Val Gln Pro Gly Ser Ile Val Arg Val Lys Pro Gly Glu Arg Ile
 370 375 380
 Gly Leu Asp Gly Glu Ile Val Lys Gly Gln Thr Thr Ile Asn Gln Ala
 385 390 395 400
 Pro Ile Thr Gly Glu Ser Leu Pro Val Asp Lys Met Ala Gly Asp Ser
 405 410 415
 Val Phe Ala Gly Thr Ile Asn Gln Ser Gly Ser Phe Glu Tyr Lys Val
 420 425 430
 Thr Ala Ala Ala Asn Asn Thr Thr Leu Ala Arg Ile Ile His Ala Val
 435 440 445
 Glu Gln Ala Gln Gly Ala Lys Ala Ala Thr Gln Arg Phe Val Asp Arg
 450 455 460
 Phe Ser Gln Ile Tyr Thr Pro Val Val Met Gly Ile Ser Val Ala Val
 465 470 475 480
 Ala Val Leu Pro Pro Leu Phe Gly Ala Gly Thr Trp Gln Glu Trp Ile
 485 490 495
 Tyr Lys Ala Leu Val Met Leu Val Ile Ala Cys Pro Cys Ala Leu Val
 500 505 510
 Ile Ser Thr Pro Val Thr Ile Val Ser Gly Leu Thr Ala Ala Ala Arg
 515 520 525
 Lys Gly Ile Leu Ile Lys Gly Gly Val Tyr Leu Glu Gln Gly Arg Lys
 530 535 540
 Leu Lys Ala Leu Ala Leu Asp Lys Thr Gly Thr Ile Thr His Gly Lys
 545 550 555 560
 Pro Val Gln Thr Asp Val Met Val Phe Asn Gly Glu Ser Glu Leu Glu
 565 570 575
 Val Arg Thr Val Ala Ala Ser Leu Ala Ser Tyr Ser Asp His Pro Val
 580 585 590
 Ser Gln Ala Val Val Asn Ala Ser Val Asp Leu Lys Lys Gln Ser Val
 595 600 605
 Glu Asn Phe Glu Ala Ile Val Gly Arg Gly Val His Gly Val Ile Ala
 610 615 620
 Gly Lys Asp Phe Tyr Leu Gly Asn Leu Arg Leu Ala Glu Asp Leu Leu
 625 630 635 640
 Ser Cys Pro Leu Glu Val Lys Ala Thr Val Gln Ser Leu Glu Ser Leu

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<210> 6298
<211> 316
<212> PRT
<213> Enterobacter cloacae
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<400>	6298															
Leu	Arg	Gly	Arg	Pro	Val	Met	Thr	Asp	Leu	Glu	Leu	Ala	Glu	Gly	Phe	
1				5					10					15		
Glu	Leu	Asn	Glu	Val	Leu	Ala	Lys	Val	Ala	Ala	Val	Glu	Ser	Arg	Ser	
			20					25					30			
Glu	His	Pro	Ile	Ala	Arg	Ala	Ile	Val	Glu	Ser	Ala	Leu	Glu	Lys	Gly	
			35				40					45				
Ile	Ser	Leu	Pro	Ile	Leu	Thr	Glu	Phe	Asp	Ser	Ile	Thr	Gly	Met	Gly	
			50			55					60					
Val	Arg	Ala	Ile	Val	Asp	Gly	Glu	Cys	Ile	Glu	Val	Gly	Ala	Asp	Arg	
65					70					75					80	
Phe	Met	Arg	Glu	Leu	Gly	Leu	Asp	Val	Glu	His	Phe	Ser	Gln	Thr	Ser	
				85					90					95		
Val	Arg	Leu	Gly	Asn	Glu	Gly	Lys	Ser	Pro	Leu	Tyr	Val	Ala	Ile	Gly	
			100					105					110			
Gly	Arg	Leu	Ala	Ala	Ile	Ile	Ala	Val	Ala	Asp	Pro	Ile	Lys	Ser	Ser	
			115				120					125				
Thr	Pro	Ile	Ala	Ile	Asn	Ala	Leu	His	Gln	Leu	Gly	Leu	Lys	Val	Ala	
			130			135						140				
Met	Ile	Thr	Gly	Asp	Asn	Ala	Asn	Thr	Ala	His	Ala	Ile	Ala	Arg	Gln	
145					150					155					160	
Leu	Gly	Phe	Asp	Glu	Val	Val	Ala	Glu	Val	Leu	Pro	Glu	Gly	Lys	Val	
				165					170					175		
Glu	Ala	Val	Arg	Arg	Leu	Lys	Glu	Ser	Tyr	Gly	Lys	Val	Ala	Tyr	Val	
			180					185					190			
Gly	Asp	Gly	Ile	Asn	Asp	Ala	Pro	Ala	Leu	Ala	Val	Ala	Asp	Ile	Gly	
			195				200					205				
Leu	Ala	Ile	Gly	Thr	Gly	Thr	Asp	Ile	Ala	Val	Glu	Ser	Ala	Asp	Val	

210	215	220
Val Leu Met Ser Gly Asn Leu Gln Gly Val Pro Asn Ala Ile Gly Leu		
225	230	235
Ser Lys Ala Thr Ile Gly Asn Ile Arg Gln Asn Leu Phe Trp Ala Phe		
	245	250
Gly Tyr Asn Ala Ala Leu Ile Pro Val Ala Ala Gly Leu Leu Tyr Pro		
	260	265
Ala Tyr Gly Leu Leu Leu Ser Pro Ile Phe Ala Ala Gly Ala Met Ala		
	275	280
Leu Ser Ser Val Phe Val Leu Gly Asn Ala Leu Arg Leu Arg Arg Phe		
	290	295
Gln Pro Pro Leu Met Glu Asp Ala Gly Asn His		300
305	310	315

<210> 6299

<211> 288

<212> PRT

<213> Enterobacter cloacae

<400> 6299

Thr Cys Gln Arg Phe Ala Ala Ile Phe Arg Ala Pro Val Val Arg Ala		
1	5	10
Leu Met Ala Arg Leu Tyr Pro Asn Gly Pro Ala Asp Ile Asn His Phe		
	20	25
Gln Ala Ala Gly Gly Val Pro Val Leu Met Arg Glu Leu Leu Lys Gly		
	35	40
Gly Leu Leu His Glu Asp Val Asn Thr Val Ala Gly Phe Gly Leu His		
	50	55
Arg Tyr Thr Leu Glu Pro Trp Leu Asn Asn Gly Glu Leu Asp Trp Arg		
	65	70
Glu Gly Ala Ser Asp Ser Leu Asp Pro Gln Val Ile Ala Thr Phe Glu		
	85	90
Gln Pro Phe Ser Pro His Gly Gly Thr Lys Val Leu Ser Gly Asn Leu		
	100	105
Gly Arg Ala Val Met Lys Thr Ser Ala Val Pro Glu Glu Asn Gln Val		
	115	120
Ile Glu Ala Pro Ala Val Val Phe Glu Ser Gln His Asp Val Leu Pro		
	130	135
Ala Phe Asp Ala Gly Leu Leu Asp Lys Asp Cys Val Val Val Val Arg		
	145	150
His Gln Gly Pro Lys Ala Asn Gly Met Pro Glu Leu His Lys Leu Met		
	165	170
Pro Pro Leu Gly Val Leu Leu Asp Arg Arg Phe Lys Ile Ala Leu Val		
	180	185
Thr Asp Gly Arg Leu Ser Gly Ala Ser Gly Lys Val Pro Ser Ala Ile		
	195	200
His Val Thr Pro Glu Ala Tyr Asp Gly Gly Leu Leu Ala Lys Val Arg		
	210	215
Asp Gly Asp Met Ile Arg Val Asn Gly Gln Thr Gly Glu Leu Thr Leu		
	225	230
Leu Val Asp Glu Ala Glu Leu Ala Ala Arg Gln Pro His Ile Pro Asp		
	245	250
Leu Ser Ala Ser Arg Val Gly Thr Gly Arg Glu Met Phe Gly Ala Leu		
	260	265
Arg Glu Lys Leu Ser Gly Ala Glu Gln Gly Ala Thr Cys Ile Thr Phe		
	275	280
		285

<210> 6300

<211> 227

<212> PRT

<213> Enterobacter cloacae

<400> 6300

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Asp Asp Leu Ile Leu Thr Ile Trp Arg Glu Lys Thr Leu Met Lys Asn
1      5      10      15
Trp Lys Thr Ser Ala Glu Ala Ile Leu Thr Thr Gly Pro Val Val Pro
20      25      30
Val Ile Val Val Asn Lys Leu Glu His Ala Val Pro Met Ala Lys Ala
35      40      45
Leu Val Ala Gly Gly Val Arg Val Leu Glu Val Thr Leu Arg Thr Ala
50      55      60
Cys Ala Met Asp Ala Ile Arg Ala Ile Ala Lys Glu Val Pro Glu Ala
65      70      75      80
Ile Ile Gly Ala Gly Thr Val Leu Asn Ala Gln Gln Leu Ala Glu Val
85      90      95
Thr Glu Ala Gly Ala Gln Phe Ala Ile Ser Pro Gly Leu Thr Glu Pro
100     105     110
Leu Leu Lys Ala Ala Thr Glu Gly Ser Ile Pro Leu Ile Pro Gly Ile
115     120     125
Ser Thr Val Ser Glu Leu Met Leu Gly Met Asp Tyr Gly Leu Lys Glu
130     135     140
Phe Lys Phe Phe Pro Ala Glu Ala Asn Gly Gly Thr Lys Ala Leu Gln
145     150     155     160
Ala Ile Ala Gly Pro Phe Ser Gln Val Arg Phe Cys Pro Thr Gly Gly
165     170     175
Ile Ser Pro Val Asn Tyr Arg Asp Tyr Leu Ala Leu Lys Ser Val Leu
180     185     190
Cys Ile Gly Gly Ser Trp Leu Val Pro Ala Asp Ala Leu Glu Ala Gly
195     200     205
Asp Trp Asp Arg Ile Thr Lys Leu Ala Arg Glu Ala Val Glu Gly Ala
210     215     220
Lys Gln
225

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<210> 6301

<211> 840

<212> PRT

<213> Enterobacter cloacae

<400> 6301

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Leu Ile Met Ser Gly Glu Ser Glu Val Ala Gln Arg Gln Asp Thr Leu
1      5      10      15
Asn Arg Tyr Leu Leu Tyr Phe Pro Arg Ser Lys Asn Val Ile Ser Asp
20      25      30
Val His Ser Phe Thr Gly Lys Glu Ile Leu Ser Glu Pro Tyr Arg Tyr
35      40      45
Thr Ile Arg Phe Thr Ser Pro Asp Leu Asn Ile Ala Ile Asn Ala Val
50      55      60
Leu Asn Gln Arg Ala Glu Phe Ile Leu Arg Ala Pro Asn Leu Glu Ala
65      70      75      80
Ser Trp His Gly Gln Thr Ser Trp Leu Pro Val Arg Gln Ile Asn Gly
85      90      95
Thr Ile Thr Gln Phe Ser Arg Leu Met Ser Ser Gly Asp Glu Ala Leu
100     105     110
Tyr Glu Cys Val Leu Glu His Glu Leu Ala Leu Leu Asp Gln Asn Tyr
115     120     125
Arg Ser Ala Val Tyr Met Asn Met Thr Val Pro Glu Leu Val Thr Lys
130     135     140
Leu Met Lys Asp Ser Gly His Phe Asp Gly Tyr Asn Ile Asp Phe Asp
145     150     155     160
Gln Leu Ser His Ser Tyr Pro Arg Arg Glu Met Ile Val Gln Trp Lys
165     170     175

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Glu Thr Asp Leu Arg Phe Ile Arg Arg Leu Leu Ala Glu Ile Gly Ile
 180 185 190
 Trp Phe Arg Phe Glu Asn His Asn Lys Val Lys Thr Glu Thr Val Val
 195 200 205
 Ile Phe Gly Asp Ser Ala Arg Arg Tyr Asn Phe Ser Asp Lys Gln Met
 210 215 220
 Pro Tyr Val Arg His Ser Gly Met Thr Ser Tyr Ser Glu Tyr Ile Thr
 225 230 235 240
 Asp Leu Glu Asp Gln His Gly Leu Ile Pro Lys Asn Val Leu Val Arg
 245 250 255
 Thr Tyr Phe Tyr Arg Asp Pro Gln Ser Pro Gln Thr Asp Lys Thr Val
 260 265 270
 Lys Thr Ser Asp Ile Pro Glu Gly Val Thr Thr Gly Gln His Tyr His
 275 280 285
 Tyr Ala Asp His Tyr Leu Thr Ala Gly Asp Phe His Gly Glu Glu Ala
 290 295 300
 Glu Thr Ala Ala Phe Tyr Ala Arg Leu Arg Tyr Glu Arg Leu Leu Asn
 305 310 315 320
 Gly Gln Ser Leu Leu Gly Ala Thr Thr Ser Asp Pro Glu Leu Gln Pro
 325 330 335
 Gly Ile Met Phe Tyr Pro Ser Gly Pro Val Pro Asp Gly Phe Lys Ser
 340 345 350
 Gly Phe Val Ile Thr Ala Met Thr Ile Arg Gly Ser Arg Ala Glu His
 355 360 365
 Tyr Arg Ala Val Leu Ser Gly Ile Pro Tyr Ile Gln Gly Tyr Thr Phe
 370 375 380
 Arg Pro Glu Tyr Leu Ser Arg Pro Val Ile Ala Gly Thr Val Pro Ala
 385 390 395 400
 Arg Val Lys Ala Ile Gly Gly Asp Lys Thr Tyr Ala Gly Leu Asp Ala
 405 410 415
 Val Gly Arg Tyr Arg Val Lys Phe Asp Phe Asp Leu Asp Glu Lys Arg
 420 425 430
 Val Gly Phe Glu Ser Ala Leu Val Arg Leu Gly Arg Pro Tyr Ala Gly
 435 440 445
 Asp Thr Phe Gly Ile His Phe Pro Leu Leu Glu Gly Thr Glu Val Ala
 450 455 460
 Val Gly Phe Glu Gly Gly Asp Pro Asp Arg Pro Phe Ile Ala His Val
 465 470 475 480
 Met His Asp Gly Ser His Pro Asp Leu Val Thr Asn Arg Asn Asp Thr
 485 490 495
 Arg Asn Val Ile Arg Thr Ala Ala Leu Asn Lys Ile Arg Leu Glu Asp
 500 505 510
 Arg Arg Gly Gln Glu His Ile Lys Ile Ala Thr Glu Tyr Gly Lys Gly
 515 520 525
 Gln Val Ser Val Gly His Leu Val Asp Ala Glu Gly Lys Lys Arg Gly
 530 535 540
 Glu Gly Val Glu Ala Arg Thr Asp Asp Trp Met Ala Leu Arg Ala Ala
 545 550 555 560
 Lys Gly Val Met Ile Thr Thr Glu Ala Gln Pro Arg Ala Gly Gly Lys
 565 570 575
 Gln Leu Asp Met Thr Ala Ala Ile Ala Gln Leu Glu Lys Ala Leu Ser
 580 585 590
 Leu Ala Met Thr Leu Gln Gln Ser Ala Leu Thr Ala Gly Ala Ser Asn
 595 600 605
 Val Glu Thr Asp Arg Gln Asn Ala Leu Ser Gln Thr Leu Ser His Leu
 610 615 620
 Ala Glu Pro Gly Ile Leu Ala Tyr Gly Lys Ser Gly Ile Ala Leu Val
 625 630 635 640
 Thr Pro Asp Ser Leu Gln Leu Ser Ala Gly Lys Asp Leu Ile Ala Thr
 645 650 655
 Ala Gly Gly Asn Ala Ser Val Asn Val Val Lys Lys Phe Ser Leu Ala

660 665 670
 Val Gly Glu Lys Leu Ser Leu Phe Ala Arg Lys Leu Gly Ile Gln Met
 675 680 685
 Ile Ala Gly Ala Gly Asp Ile Thr Thr Gln Ala Gln Arg Gly Glu Met
 690 695 700
 His Met Leu Ser Gln Gln Asp Phe Thr Leu Thr Ser Thr Ala Gly Lys
 705 710 715 720
 Met Asn Gly Ser Ala Arg Lys Gly Met Gln Phe Val Cys Gly Gly Gly
 725 730 735
 Gly Ile Arg Ile Ser Pro Thr Gly Leu Val Thr Ile Phe Ser Pro Thr
 740 745 750
 Gly Ile Glu Leu Lys Ala Pro Ser Leu Lys Tyr Asp Gly Pro Glu Ser
 755 760 765
 Val Ser Val Pro Thr Pro Ser Phe Glu Lys Gly Ala Phe Lys Leu Arg
 770 775 780
 Tyr Lys Leu His Ala Gly Asp Asp Pro Glu Gln Ile Leu Ala Asn Lys
 785 790 795 800
 Lys Phe Arg Leu Thr Ser Ala Ser Gly Gln Val Val Glu Gly Val Thr
 805 810 815
 Asp Ser Cys Gly Arg Ser Pro Leu Leu Asp Ala Asp Asp Leu Asp Ser
 820 825 830
 Tyr Lys Met Glu Ile Met Glu
 835 840

<210> 6302

<211> 437

<212> PRT

<213> Enterobacter cloacae

<400> 6302

Lys Asn Ala Leu Leu Leu Arg Arg Ser Ala His Ala Gly Thr Gly Ala
 1 5 10 15
 Leu Phe Pro Leu Val Arg Arg Gln Pro Ala Ser Lys Asn Val Ser Gln
 20 25 30
 Arg Arg Ala Ala Arg Lys Arg Ala Gly Ala Arg Glu Lys Leu Tyr Asn
 35 40 45
 Arg Ala Arg Arg Val Ala Gly Val Phe Ile Tyr Pro Phe Thr Ser Arg
 50 55 60
 Leu Val Tyr Ser Gly Ala Ile Met Ser Ala Glu Lys Leu Phe Thr Pro
 65 70 75 80
 Leu Lys Val Gly Ala Val Thr Ala Pro Asn Arg Val Phe Met Ala Pro
 85 90 95
 Leu Thr Arg Leu Arg Ser Ile Glu Pro Gly Asp Ile Pro Thr Pro Leu
 100 105 110
 Met Gly Glu Tyr Tyr Arg Gln Arg Ala Ser Ala Gly Leu Ile Ile Ser
 115 120 125
 Glu Ala Thr Gln Ile Ser Ala Gln Ala Lys Gly Tyr Ala Gly Ala Pro
 130 135 140
 Gly Leu His Ser Pro Glu Gln Ile Ala Ala Trp Lys Lys Ile Thr Ala
 145 150 155 160
 Gly Val His Ala Glu Asp Gly Arg Ile Ala Val Gln Leu Trp His Thr
 165 170 175
 Gly Arg Ile Ser His Ser Ser Ile Gln Pro Gly Gly Gln Ala Pro Val
 180 185 190
 Ser Ala Ser Ala Leu Asn Ala Asn Thr Arg Thr Ser Leu Arg Asp Glu
 195 200 205
 Asn Gly Asn Ala Ile Arg Val Asp Thr Thr Thr Pro Arg Ala Leu Glu
 210 215 220
 Leu Asp Glu Ile Pro Gly Ile Val Asn Asp Phe Arg Gln Ala Val Ala
 225 230 235 240
 Asn Ala Arg Glu Ala Gly Phe Asp Leu Val Glu Leu His Ser Ala His

245 250 255
 Gly Tyr Leu Leu His Gln Phe Leu Ser Pro Ser Ser Asn Gln Arg Thr
 260 265 270
 Asp Gln Tyr Gly Gly Ser Val Glu Asn Arg Ala Arg Leu Val Leu Glu
 275 280 285
 Val Val Asp Ala Val Cys Asn Glu Trp Ser Ala Asp Arg Ile Gly Ile
 290 295 300
 Arg Val Ser Pro Ile Gly Thr Phe Gln Asn Val Asp Asn Gly Pro Asn
 305 310 315 320
 Glu Glu Ala Asp Ala Leu Tyr Leu Ile Glu Glu Leu Ala Lys Arg Gly
 325 330 335
 Ile Ala Tyr Leu His Met Ser Glu Pro Asp Trp Ala Gly Gly Lys Pro
 340 345 350
 Tyr Ser Glu Ala Phe Arg Gln Lys Val Arg Glu Arg Phe His Gly Val
 355 360 365
 Ile Ile Gly Ala Gly Ala Tyr Thr Ala Glu Lys Ala Glu Asp Leu Ile
 370 375 380
 Gly Lys Gly Leu Ile Asp Ala Val Ala Phe Gly Arg Asp Tyr Ile Ala
 385 390 395 400
 Asn Pro Asp Leu Val Ala Arg Leu Gln Lys Lys Ala Glu Leu Asn Pro
 405 410 415
 Gln Arg Pro Glu Ser Phe Tyr Gly Gly Ala Glu Gly Tyr Thr Asp
 420 425 430
 Tyr Pro Ser Leu
 435

<210> 6303

<211> 145

<212> PRT

<213> Enterobacter cloacae

<400> 6303

Ser Ile Pro Leu Val Asn Glu Glu Ile Met Arg Leu Leu His Thr Met
 1 5 10 15
 Leu Arg Val Gly Asp Leu Gln Arg Ser Ile Asp Phe Tyr Thr Asn Val
 20 25 30
 Leu Gly Met Lys Leu Leu Arg Thr Ser Glu Asn Pro Glu Tyr Lys Tyr
 35 40 45
 Ser Leu Ala Phe Val Gly Tyr Gly Pro Glu Ser Asp Glu Ala Val Ile
 50 55 60
 Glu Leu Thr Tyr Asn Trp Gly Val Asp Ser Tyr Glu Leu Gly Thr Ala
 65 70 75 80
 Tyr Gly His Ile Ala Leu Glu Val Gly Asn Ala Ala Glu Ala Cys Glu
 85 90 95
 Arg Ile Arg Ser Asn Gly Gly Asn Val Thr Arg Glu Ala Gly Pro Val
 100 105 110
 Lys Gly Gly Thr Thr Val Ile Ala Phe Val Glu Asp Pro Asp Gly Tyr
 115 120 125
 Lys Ile Glu Leu Ile Glu Ala Lys Asp Ala Gly Arg Gly Leu Gly Asn
 130 135 140

145

<210> 6304

<211> 223

<212> PRT

<213> Enterobacter cloacae

<400> 6304

Glu Thr Leu Met Ser Asp Asn Ala Gln Phe Thr Gly Leu Cys Asp Arg
 1 5 10 15

Phe Arg Gly Phe Tyr Pro Val Val Ile Asp Val Glu Thr Ala Gly Phe
 20 25 30
 Asn Ala Lys Thr Asp Ala Leu Leu Glu Ile Ala Ala Ile Thr Leu Lys
 35 40 45
 Met Asp Glu Gln Gly Trp Leu Val Pro Asp Thr Thr Leu His Phe His
 50 55 60
 Val Glu Pro Phe Glu Gly Ala Asn Leu Gln Pro Glu Ala Leu Ala Phe
 65 70 75 80
 Asn Gly Ile Asp Pro Thr Asn Pro Leu Arg Gly Ala Val Ser Glu Tyr
 85 90 95
 Glu Ala Leu His Ala Ile Phe Lys Met Val Arg Lys Gly Met Lys Glu
 100 105 110
 Asn Asp Cys Ser Arg Ala Ile Met Val Ala His Asn Ala Thr Phe Asp
 115 120 125
 His Ser Phe Thr Met Ala Ala Ala Glu Arg Ala Ser Leu Lys Arg Asn
 130 135 140
 Pro Phe His Pro Phe Val Thr Phe Asp Thr Ala Ala Leu Ser Gly Leu
 145 150 155 160
 Ala Leu Gly Gln Thr Val Leu Ser Lys Ala Cys Ile Thr Ala Gly Ile
 165 170 175
 Ala Phe Asp Gly Thr Gln Ala His Ser Ala Leu Tyr Asp Thr Glu Arg
 180 185 190
 Thr Ala Glu Leu Phe Cys Glu Ile Val Asn Arg Trp Lys Arg Leu Gly
 195 200 205
 Gly Trp Pro Leu Pro Met Gly Asp Glu Ala Asp Leu Gln Ser
 210 215 220

<210> 6305

<211> 283

<212> PRT

<213> Enterobacter cloacae

<400> 6305

Leu Leu Leu Ile Leu Trp Ile Arg Ile Asp Arg Phe Cys Lys Ser His
 1 5 10 15
 Ala Gly Met His Cys Gly Leu His Leu Ser Gly Asp Cys Pro Val Ala
 20 25 30
 Arg Ile Thr Lys Ile Ser Met Thr Leu Cys Ala Leu Leu Phe Thr Thr
 35 40 45
 Leu Ser Phe Thr Pro Ala Ala Asn Ala Ser Glu Gln Ala Arg His Ser
 50 55 60
 Ala Val Gln Lys Thr His Leu Ala Lys Ser Thr Glu Arg Lys Lys Lys
 65 70 75 80
 Thr Thr Ser Lys Thr Val Lys Lys Lys Ile Thr Ala Gln Thr Lys Lys
 85 90 95
 Thr Ala Ser Ser Lys Thr Lys Thr Leu Arg Ser Gly Thr His Lys Thr
 100 105 110
 Thr Arg Thr Thr Ala Ser Leu Val Asn Glu Lys Cys Thr Val Arg Lys
 115 120 125
 Gly His Lys Thr Lys Cys Ala Lys Val Thr Lys Leu Ala Asp Val His
 130 135 140
 Lys Ala Arg Met Gln Lys Ala Gln Lys Thr Ala Met Asn Lys Leu Met
 145 150 155 160
 Gly Gln Ile Gly Lys Pro Tyr Arg Trp Gly Gly Thr Ser Pro Arg Thr
 165 170 175
 Gly Phe Asp Cys Ser Gly Leu Val Tyr Tyr Ala Tyr Lys Asp Leu Val
 180 185 190
 Lys Phe Arg Ile Pro Arg Thr Ala Asn Glu Met Tyr His Leu Arg Asp
 195 200 205
 Ala Ala Pro Val Asn Arg Gly Glu Leu Gln Asn Gly Asp Leu Val Phe
 210 215 220

Phe Arg Thr Gln Gly Arg Gly Thr Ala Asp His Val Gly Val Tyr Val
 225 230 235 240
 Gly Asn Gly Lys Phe Ile Gln Ser Pro Arg Ser Gly Gln Asp Ile Gln
 245 250 255
 Ile Thr Ser Leu Ser Glu Asp Tyr Trp Val Arg His Tyr Val Gly Ala
 260 265 270
 Arg Arg Val Met Thr Pro Lys Thr Ile Arg
 275 280

<210> 6306
 <211> 203
 <212> PRT
 <213> Enterobacter cloacae

<400> 6306
 Ser Lys Gly Met Ser Arg His Thr Glu His Asp Thr Arg Glu His Leu
 1 5 10 15
 Leu Ala Thr Gly Glu Arg Leu Cys Met His Arg Gly Phe Thr Gly Met
 20 25 30
 Gly Leu Ser Glu Leu Leu Lys Thr Ala Glu Val Pro Lys Gly Ser Phe
 35 40 45
 Tyr His Tyr Phe Arg Ser Lys Glu Ala Phe Gly Val Ala Met Leu Glu
 50 55 60
 Arg His Tyr Ala Ser Tyr His Gln Arg Leu Ala Ala His Phe Ala Ser
 65 70 75 80
 Gly Glu Gly Asp Tyr Arg Asp Arg Val Leu Asn Tyr Tyr Gln Glu Thr
 85 90 95
 Leu Thr Gln Phe Cys Gln Gln Gly Ile Ile Ser Gly Cys Leu Thr Val
 100 105 110
 Lys Leu Ser Ala Glu Val Cys Asp Leu Ser Glu Asp Met Arg Thr Ala
 115 120 125
 Met Asp Lys Gly Ala Ser Gly Val Ile Ala Leu Leu Ala Gln Ala Leu
 130 135 140
 Glu Ser Gly Arg Asn Glu Lys Thr Leu Ser Phe Ser Gly Asp Pro Leu
 145 150 155 160
 Thr Gln Ala Gln Val Leu Tyr Ser Leu Trp Leu Gly Ala Asn Leu Gln
 165 170 175
 Ala Lys Met Ser Arg Ser Ala Val Pro Leu Glu Ser Ala Leu Ala His
 180 185 190
 Val Lys Asn Cys Ile Thr Ala Pro Gly Val
 195 200

<210> 6307
 <211> 589
 <212> PRT
 <213> Enterobacter cloacae

<400> 6307
 Gly Arg Asn Thr Cys Leu Trp Ser Arg His Asn Lys Met Ala Cys Ser
 1 5 10 15
 Ala Thr Asp Val Cys His Lys Gln Asp Ile Lys Val Ser Leu Ile Phe
 20 25 30
 His Ser Tyr Thr Arg Arg Ile Asp Ile Thr Asn Gly Leu Leu Ile Met
 35 40 45
 Trp Phe Ala Lys Lys Leu His Cys Asn Asp Ile Lys Phe Thr Leu Gly
 50 55 60
 Cys Ala Phe Phe Phe Thr Val Leu Asn Ala Leu Phe Ile Gln Arg Ser
 65 70 75 80
 Trp Ser Ile Ile Ala Pro Ala His Leu His Asp Val Leu Phe Ala Ala
 85 90 95
 Ser Val Pro Leu Val Leu Phe Cys Gly Trp Val Ile Val Phe Ser Leu

				100				105					110		
Leu	Asn	Ile	Pro	Tyr	Ile	Arg	Lys	Pro	Leu	Leu	Ile	Val	Leu	Thr	Leu
		115					120					125			
Gly	Cys	Ala	Ala	Ala	Thr	Trp	Phe	Met	Tyr	Thr	Tyr	Gly	Ala	Val	Ile
	130					135					140				
Asp	Gln	Asn	Met	Ile	Val	Asn	Val	Phe	Glu	Thr	Asn	Ser	Gln	Glu	Ala
145				150					155						160
Thr	Ala	Leu	Val	Thr	Pro	Gln	Met	Ile	Leu	Trp	Leu	Val	Val	Ala	Gly
			165						170						175
Leu	Val	Pro	Ser	Val	Val	Leu	Ala	Leu	Thr	Arg	Ile	Arg	Thr	Gly	Lys
		180						185					190		
Trp	Trp	Tyr	Ala	Leu	Leu	Thr	Arg	Phe	Ala	Ala	Met	Leu	Gly	Ala	Leu
	195					200					205				
Leu	Val	Ile	Ile	Leu	Val	Ala	Ser	Val	Phe	Tyr	Lys	Asp	Tyr	Ala	Ser
	210					215					220				
Leu	Phe	Arg	Asn	Asn	Lys	Ser	Ile	Val	Lys	Met	Val	Thr	Pro	Ala	Asn
225				230					235						240
Tyr	Val	Ser	Ala	Val	Val	Lys	Tyr	Ser	Lys	Met	Arg	Trp	Phe	Ala	Gly
			245						250						255
Asp	Gln	Thr	Leu	Val	Arg	Ile	Gly	Glu	Asp	Ala	His	Lys	Gly	Ala	Leu
			260					265					270		
Ile	Ala	Ser	Gln	Arg	Lys	Lys	Thr	Val	Leu	Val	Val	Val	Val	Gly	Glu
			275				280					285			
Ala	Ser	Arg	Ala	Ala	Asn	Tyr	Ser	Leu	Asn	Gly	Tyr	Pro	Arg	Glu	Thr
	290					295					300				
Asn	Pro	Glu	Leu	Lys	Lys	Gln	Asp	Val	Ile	Asn	Phe	Pro	Arg	Ala	Ser
305				310					315						320
Ser	Cys	Gly	Thr	Glu	Thr	Ala	Val	Ser	Val	Pro	Cys	Met	Phe	Ser	Gly
			325						330						335
Met	Thr	Arg	Lys	Lys	Tyr	Asp	Ala	Asp	Leu	Ala	His	His	Gln	Glu	Gly
			340					345					350		
Leu	Leu	Asp	Val	Leu	Asn	His	Ala	Gly	Phe	Asn	Leu	Leu	Trp	Arg	Asp
		355					360					365			
Asn	Asp	Gly	Gly	Cys	Lys	Gly	Ala	Cys	Asp	Arg	Val	Pro	His	Thr	Asp
	370					375					380				
Met	Thr	Gln	Trp	Lys	Leu	Asp	Gln	Phe	Cys	Lys	Asp	Lys	Ser	Cys	Ile
385				390						395					400
Asp	Asp	Val	Asn	Leu	Tyr	Arg	Leu	Asp	Asn	Val	Leu	Asp	Gly	Ile	Lys
			405						410					415	
Gln	Asp	Thr	Val	Leu	Val	Ile	His	Leu	Met	Gly	Ser	His	Gly	Pro	Ala
			420					425					430		
Tyr	Tyr	Lys	Arg	Tyr	Pro	Asp	Ser	Phe	Arg	Lys	Phe	Thr	Pro	Thr	Cys
	435					440					445				
Asp	Thr	Asn	Glu	Ile	Gln	Asp	Cys	Asp	His	Gln	Ser	Leu	Ile	Asn	Thr
</															

<210> 6308
 <211> 274
 <212> PRT
 <213> Enterobacter cloacae

<400> 6308
 Ile Tyr Pro Val Thr Ala Gln Arg Ser Gly His Ser Asp His Leu Ser
 1 5 10 15
 Gln Arg Arg Leu Leu Gly Ala Pro Leu Cys Gly Cys Ala Pro Arg Asp
 20 25 30
 Asp Ala Lys Asn His Pro Leu Ala Pro Ala Leu Pro Pro Leu Trp Gln
 35 40 45
 Gly Lys Phe Leu Phe Cys Ile Pro Phe Gln Phe Ala Ile Leu Ser Leu
 50 55 60
 Leu Ser Val Arg Leu Leu Ala Thr Tyr Lys Thr Ile Arg Arg Glu Ala
 65 70 75 80
 Met Ser Phe Glu Leu Pro Ala Leu Pro Tyr Ala Lys Asp Ala Leu Ala
 85 90 95
 Pro His Ile Ser Ala Glu Thr Leu Glu Tyr His Tyr Gly Lys His His
 100 105 110
 Gln Thr Tyr Val Thr Asn Leu Asn Asn Leu Ile Lys Gly Thr Asp Phe
 115 120 125
 Glu Gly Lys Thr Leu Glu Glu Ile Val Arg Ser Ser Asp Gly Gly Val
 130 135 140
 Phe Asn Asn Ala Ala Gln Val Trp Asn His Thr Phe Tyr Trp His Cys
 145 150 155 160
 Leu Ala Pro Asn Ala Gly Gly Glu Pro Asp Gly Glu Leu Ala Ala Ala
 165 170 175
 Ile Asn Ala Ala Phe Gly Ser Phe Ala Asp Phe Lys Ala Lys Phe Thr
 180 185 190
 Asp Ala Ala Val Lys Asn Phe Gly Ser Gly Trp Thr Trp Leu Val Lys
 195 200 205
 Glu Ala Asp Gly Lys Leu Ala Ile Val Ser Thr Ser Asn Ala Gly Thr
 210 215 220
 Pro Leu Thr Thr Ser Ala Thr Pro Leu Met Thr Val Asp Val Trp Glu
 225 230 235 240
 His Ala Tyr Tyr Ile Asp Tyr Arg Asn Ala Arg Pro Asn Tyr Leu Glu
 245 250 255
 His Phe Trp Ala Leu Val Asn Trp Glu Phe Val Ala Lys Asn Phe Ala
 260 265 270
 Ala

<210> 6309
 <211> 138
 <212> PRT
 <213> Enterobacter cloacae

<400> 6309
 Arg Arg Asn Tyr Leu Gly Gly Lys Phe Ala Asp Arg Ser Val Ser Gly
 1 5 10 15
 Thr Leu Lys Gly Phe Leu Thr Leu Leu Ile Val Ile Met Val Ala Ile
 20 25 30
 Pro Trp Leu Ala Arg Asn Glu Val Gly Ala Ala Ile Ala Met Val Val
 35 40 45
 Trp Gly Ala Ala Thr Phe Ala Val Val Pro Pro Leu Gln Met Arg Val
 50 55 60
 Met Arg Val Ala His Glu Ala Pro Gly Leu Ser Ser Ser Val Asn Ile
 65 70 75 80
 Gly Ala Phe Asn Leu Gly Asn Ala Leu Gly Ala Ala Ala Gly Gly Ala

			85					90					95				
Val	Ile	Ser	Gly	Gly	Leu	Gly	Tyr	Ser	Phe	Val	Pro	Val	Met	Gly	Ala		
			100					105					110				
Ile	Ile	Ala	Ala	Leu	Gly	Leu	Leu	Leu	Val	Ile	Met	Ser	Gly	Arg	Lys		
		115					120						125				
Gln	Pro	Gln	Ala	Val	Cys	Thr	Ala	Glu									
	130					135											

<210> 6310

<211> 120

<212> PRT

<213> Enterobacter cloacae

<400> 6310

Arg	Lys	Gln	Asp	Met	Ser	Thr	Thr	Ile	Glu	Lys	Ile	Gln	Arg	Gln	Ile		
1				5					10					15			
Ala	Glu	Asn	Pro	Ile	Leu	Leu	Tyr	Met	Lys	Gly	Ser	Pro	Lys	Leu	Pro		
		20					25						30				
Ser	Cys	Gly	Phe	Ser	Ala	Gln	Ala	Val	Gln	Ala	Leu	Ser	Ala	Cys	Gly		
	35					40						45					
Glu	Arg	Phe	Ala	Tyr	Val	Asp	Ile	Leu	Gln	Asn	Pro	Asp	Ile	Arg	Ala		
	50					55					60						
Glu	Leu	Pro	Lys	Tyr	Ala	Asn	Trp	Pro	Thr	Phe	Pro	Gln	Leu	Trp	Val		
65				70					75					80			
Asp	Gly	Glu	Leu	Val	Gly	Gly	Cys	Asp	Ile	Leu	Ile	Glu	Met	Tyr	Gln		
			85					90						95			
Arg	Gly	Glu	Leu	Gln	Gln	Leu	Ile	Lys	Glu	Thr	Ala	Ala	Lys	Tyr	Lys		
		100					105						110				
Thr	Glu	Glu	Pro	Asp	Ala	Glu											
	115					120											

<210> 6311

<211> 211

<212> PRT

<213> Enterobacter cloacae

<400> 6311

Ser	Arg	Arg	Gly	Ser	Ala	Arg	Ala	Leu	Ser	Gly	Gly	Arg	Leu	His	Tyr		
1				5					10					15			
Lys	Ala	Cys	Arg	Leu	Pro	Ser	Pro	Ala	Arg	Thr	Cys	Ala	Asp	Arg	Arg		
		20					25						30				
Tyr	His	Val	Ser	Pro	Ala	Leu	Gln	Ser	Asp	Thr	Ala	Arg	Leu	Leu	Leu		
	35					40						45					
Arg	Ser	Asp	Arg	Cys	Arg	Arg	Ser	Gly	Lys	Tyr	Arg	Ser	Gly	Arg	His		
	50				55					60							
Glu	Tyr	Gln	Cys	Gly	Leu	Arg	Ser	Thr	His	Tyr	Arg	Gln	His	Pro	Pro		
65				70					75					80			
Leu	Gln	Ala	Pro	Asp	Ala	Arg	Gly	Phe	Gln	Arg	Cys	Arg	Arg	Thr	Gly		
			85					90						95			
Arg	Tyr	Ala	Gly	Trp	Lys	Lys	Gly	Thr	Gly	Thr	Asp	Ala	Ala	Gly	Asn		
		100					105						110				
Arg	Ala	Gln	Ser	Ala	Ala	Gln	Pro	Gly	Arg	Ser	Pro	Leu	His	Glu	Arg		
	115					120						125					
Trp	Arg	Arg	Pro	Asp	Gly	Asn	His	Ser	Gln	Tyr	Pro	Gly	Ser	Arg	Pro		
	130				135						140						
Ala	Pro	Ala	Arg	Val	Ala	Trp	Trp	Cys	Gln	Arg	Gly	Ser	His	Tyr	Arg		
145				150					155					160			
Phe	His	Arg	Ala	Gly	Lys	Cys	Gly	Tyr	Trp	Arg	Ser	Gly	Gln	Lys	Gln		
			165				170							175			
Lys	Pro	Ala	Pro	Asp	Arg	Gln	Ala	Gly	Cys	Cys	Cys	Val	Arg	Tyr	Asp		
		180					185						190				

Arg Cys Ala Thr Ala Glu Pro Gln Tyr Gly His Leu Gln His Glu His
 195 200 205
 Leu Arg
 210

<210> 6312

<211> 77

<212> PRT

<213> Enterobacter cloacae

<400> 6312

Gly Asn Ile Met Lys Arg Phe Leu Ser Val Ala Leu Leu Ala Ala Leu
 1 5 10 15
 Leu Ala Gly Cys Ala His Asp Ser Pro Cys Val Pro Val Tyr Asp Asp
 20 25 30
 Gln Gly Arg Leu Val His Thr Asn Thr Cys Met Lys Gly Thr Thr Gln
 35 40 45
 Asp Asn Trp Glu Thr Ala Gly Ala Ile Ala Gly Gly Ala Ala Ala Ile
 50 55 60
 Ala Gly Leu Thr Leu Gly Ile Val Ala Leu Thr Lys
 65 70 75

<210> 6313

<211> 991

<212> PRT

<213> Enterobacter cloacae

<400> 6313

Arg Pro Tyr Pro Leu Ser Ile Cys Ala Pro Ala Val Lys Ile Thr Gln
 1 5 10 15
 Val Ile Glu Gln Asn Met Asn Gly Ile Asp Asn Leu Met Tyr Met Ser
 20 25 30
 Ser Thr Ser Asp Ser Ala Gly Asn Val Thr Ile Thr Leu Thr Phe Glu
 35 40 45
 Ser Gly Thr Asp Pro Asp Ile Ala Gln Val Gln Val Gln Asn Lys Leu
 50 55 60
 Gln Leu Ala Met Pro Leu Leu Pro Gln Glu Val Gln Gln Gln Gly Ile
 65 70 75 80
 Gly Val Glu Lys Ser Ser Ser Phe Leu Val Ala Gly Phe Val
 85 90 95
 Ser Asp Asn Lys Asn Leu Thr Gln Asp Asp Ile Ser Asp Tyr Val Ala
 100 105 110
 Ser Asn Val Lys Asp Ala Ile Ser Arg Thr Ser Gly Val Gly Asp Val
 115 120 125
 Gln Leu Phe Gly Ala Gln Tyr Ala Met Arg Ile Trp Leu Asp Ser Asn
 130 135 140
 Ala Met Asn Lys Tyr Gln Leu Thr Pro Leu Asp Ile Ile Asn Gln Leu
 145 150 155 160
 Lys Thr Gln Asn Asp Gln Ile Ala Ala Gly Gln Leu Gly Gly Thr Pro
 165 170 175
 Ser Val Pro Gly Gln Gln Leu Asn Ala Ser Ile Ile Ala Gln Thr Arg
 180 185 190
 Leu Lys Ser Pro Glu Glu Phe Gly Arg Val Thr Leu Lys Val Asn Gln
 195 200 205
 Asp Gly Ser Met Val His Leu Lys Asp Val Ala Arg Ile Glu Leu Gly
 210 215 220
 Gly Glu Asn Tyr Asn Met Val Thr Lys Ile Asn Gly Gln Ala Ala Thr
 225 230 235 240
 Gly Leu Gly Ile Lys Leu Ala Thr Gly Ala Asn Ala Leu Asp Thr Ala
 245 250 255
 Ala Ala Ile Lys Ser Lys Leu Ala Gln Leu Gln Pro Phe Phe Pro Gln

260										265					270							
Gly	Leu	Lys	Val	Val	Tyr	Pro	Tyr	Asp	Thr	Thr	Pro	Phe	Val	Lys	Ile							
			275					280					285									
Ser	Ile	His	Glu	Val	Val	Lys	Thr	Leu	Phe	Glu	Ala	Ile	Val	Leu	Val							
			290				295					300										
Phe	Leu	Val	Met	Tyr	Leu	Phe	Leu	Gln	Asn	Leu	Arg	Ala	Thr	Leu	Ile							
305					310						315				320							
Pro	Thr	Ile	Ala	Val	Pro	Val	Val	Leu	Leu	Gly	Thr	Phe	Ala	Val	Leu							
				325						330					335							
Ala	Ala	Phe	Gly	Phe	Ser	Ile	Asn	Thr	Leu	Thr	Met	Phe	Gly	Met	Val							
			340					345					350									
Leu	Ala	Ile	Gly	Leu	Leu	Val	Asp	Asp	Ala	Ile	Val	Val	Val	Glu	Asn							
			355				360					365										
Val	Glu	Arg	Val	Met	Val	Glu	Asp	Lys	Leu	Pro	Pro	Lys	Glu	Ala	Thr							
			370			375					380											
Gln	Lys	Ser	Met	Glu	Gln	Ile	Gln	Gly	Ala	Leu	Val	Gly	Ile	Ala	Met							
385					390						395				400							
Val	Leu	Ser	Ala	Val	Phe	Ile	Pro	Met	Ala	Phe	Phe	Gly	Gly	Ser	Thr							
				405					410						415							
Gly	Ala	Ile	Tyr	Arg	Gln	Phe	Ser	Leu	Thr	Ile	Val	Ser	Ala	Met	Ala							
			420					425					430									
Leu	Ser	Val	Leu	Val	Ala	Leu	Ile	Leu	Thr	Pro	Ala	Leu	Cys	Ala	Thr							
			435				440					445										
Leu	Leu	Lys	Pro	Val	Ser	Ser	Glu	His	His	Glu	Lys	Lys	Gly	Gly	Phe							
			450			455					460											
Phe	Gly	Trp	Phe	Asn	Ala	Leu	Phe	Asp	Lys	Ser	Val	Glu	His	Tyr	Ser							
465					470					475					480							
Asn	Ser	Val	Ser	Gly	Ile	Leu	Arg	Lys	Thr	Gly	Arg	Tyr	Leu	Leu	Val							
				485					490						495							
Tyr	Val	Ile	Ile	Val	Gly	Gly	Met	Ala	Val	Leu	Phe	Leu	Arg	Leu	Pro							
			500					505					510									
Ser	Ser	Phe	Leu	Pro	Glu	Glu	Asp	Gln	Gly	Val	Phe	Met	Thr	Met	Val							
			515				520					525										
Gln	Leu	Pro	Ala	Gly	Ala	Thr	Gln	Met	Arg	Thr	Gln	Gln	Val	Leu	Asp							
			530			535					540											
Gln	Val	Gln	Asp	Tyr	Tyr	Leu	Thr	Lys	Glu	Lys	Ala	Asn	Val	Glu	Ser							
545					550					555					560							
Val	Phe	Thr	Val	Asn	Gly	Phe	Ser	Phe	Ser	Gly	Gln	Gly	Gln	Asn	Ser							
				565					570						575							
Gly	Ile	Ala	Phe	Val	Ser	Leu	Lys	Pro	Trp	Glu	Glu	Arg	Pro	Gly	Lys							
			580					585				590										
Glu	Asn	Gly	Val	Glu	Ala	Ile	Val	Ser	Arg	Ala	Thr	Lys	Ala	Phe	Ser							
			595				600					605										
Gln	Ile	Lys	Asp	Gly	Leu	Val	Phe	Pro	Phe	Asn	Leu	Pro	Ala	Ile	Ile							
						615					620											
Glu	Leu	Gly	Thr	Ala	Thr	Gly	Phe	Asp	Phe	Glu	Leu	Ile	Asp	Gln	Ala							
625					630					635					640							
Asn	Leu	Gly	His	Thr	Gln	Leu	Thr	Gln	Ala	Arg	Asn	Gln	Leu	Leu	Gly							
				645					650						655							
Met	Val	Arg	Glu	His	Pro	Asp	Leu	Leu	Val	Arg	Val	Arg	Pro	Asn	Gly							
			660				665					670										
Leu	Glu	Asp	Thr	Pro	Gln	Phe	Lys	Leu	Asp	Val	Asp	Gln	Glu	Lys	Ala							
			675				680					685										
Gln	Ala	Leu	Gly	Val	Ser	Val	Ser	Asp	Val	Asn	Gln	Thr	Ile	Ser	Thr							
						695					700											
Ala	Leu	Gly	Gly	Thr	Tyr	Val	Asn	Asp	Phe	Ile	Asp	His	Gly	Arg	Val							
705					710					715					720							
Lys	Lys	Val	Tyr	Val	Gln	Ala	Asp	Ala	Arg	Phe	Arg	Met	Leu	Pro	Gly							
				725				730							735							
Asp	Ile	Asn	Gly	Leu	Tyr	Val	Arg	Ser	Ala	Asn	Gly	Glu	Met	Val	Pro							
			740					745					750									

Phe Ser Ala Phe Ser Ser Ser His Trp Val Tyr Gly Ser Pro Arg Leu
 755 760 765
 Glu Arg Tyr Asn Gly Met Pro Ser Met Glu Ile Leu Gly Glu Ser Ala
 770 775 780
 Pro Gly Lys Ser Thr Gly Glu Ala Met Ala Leu Met Glu Asn Leu Ala
 785 790 795 800
 Ser Lys Leu Pro Ser Gly Ile Gly Tyr Asp Trp Thr Gly Met Ser Tyr
 805 810 815
 Gln Glu Arg Leu Ser Gly Asn Gln Ala Pro Ala Leu Tyr Ala Ile Ser
 820 825 830
 Leu Ile Val Val Phe Leu Cys Leu Ala Ala Leu Tyr Glu Ser Trp Ser
 835 840 845
 Ile Pro Phe Ser Val Met Leu Val Val Pro Leu Gly Val Ile Gly Ala
 850 855 860
 Leu Leu Ala Ala Ser Met Arg Gly Leu Asn Asn Asp Val Tyr Phe Gln
 865 870 875 880
 Val Gly Leu Leu Thr Thr Ile Gly Leu Ser Ala Lys Asn Ala Ile Leu
 885 890 895
 Ile Val Glu Phe Ala Lys Asp Leu Met Asp Lys Glu Gly Lys Gly Ile
 900 905 910
 Ile Glu Ala Thr Leu Glu Ala Ser Arg Met Arg Leu Arg Pro Ile Leu
 915 920 925
 Met Thr Ser Leu Ala Phe Ile Leu Gly Val Met Pro Leu Val Ile Ser
 930 935 940
 Ser Gly Ala Gly Ser Gly Ala Gln Asn Ala Val Gly Thr Gly Val Met
 945 950 955 960
 Gly Gly Met Leu Ser Ala Thr Leu Leu Ala Ile Phe Phe Val Pro Val
 965 970 975
 Phe Phe Val Val Val Arg Arg Arg Phe Thr Lys His Lys Asp
 980 985 990

<210> 6314

<211> 165

<212> PRT

<213> Enterobacter cloacae

<400> 6314

Leu Ser Leu Ser Pro Ala Thr Leu Val Val Trp Phe Arg Asn Ala Gly
 1 5 10 15
 Thr Leu Ser Met Lys Lys Ile Ala Ile Ile Gly Ser Gly Pro Thr Gly
 20 25 30
 Ile Tyr Thr Phe Tyr Ser Leu Leu Asn Asn Ala Ala Pro Leu Ser Ile
 35 40 45
 Thr Val Phe Glu Lys Ala Asp Gln Pro Gly Val Gly Met Pro Tyr Ser
 50 55 60
 Asp Glu Asp Asn Ser Arg Leu Met Leu Ala Asn Ile Ala Ser Ile Glu
 65 70 75 80
 Ile Pro Pro Ile Phe Ile Thr Tyr Leu Asp Trp Leu Lys Gln Gln Asn
 85 90 95
 Ala Ala Arg Leu Ala Arg Tyr Asn Val Asp Ser Glu Lys Leu His Asp
 100 105 110
 Arg Gln Phe Leu Pro Arg Ile Leu Leu Gly Glu Tyr Phe His Asp Arg
 115 120 125
 Phe Leu Ala Gly Ala Ala Glu Ala Asn Asn Ala Gly Phe His Ile Glu
 130 135 140
 Val His Pro Thr Ala Glu Ile Pro Asp Ile Asn Ala Asp Ala Asn Ala
 145 150 155 160
 Trp Pro Phe His
 165

<210> 6315

<211> 106
 <212> PRT
 <213> Enterobacter cloacae

<400> 6315

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Thr Leu Ala Asp Gly Cys Ala His Ile Ala Gln Lys Ser Ile Phe Phe
1      5      10      15
Arg Arg Ile Leu Arg Ser Glu Lys His Met Thr Leu Asn Ser Asn His
      20      25      30
Ser Asp Trp Arg Asp Met Leu Met Lys Arg Gln Asp Ile Asn Ala Leu
      35      40      45
Lys Asn Phe Asp Phe Leu Ala Arg Ser Phe Ala Arg Met Tyr Ala Gln
      50      55      60
Gly Gln Pro Val Asp Ile Asp Ala Val Thr Gly Asn Met Ser Asn Lys
65      70      75      80
Gln Gln Ala Trp Phe Arg Glu Arg Tyr Asp His Tyr Arg Lys Gln Ala
      85      90      95
Glu Arg Ala Arg Val Ile Glu Leu Arg
      100      105

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<210> 6316
 <211> 174
 <212> PRT
 <213> Enterobacter cloacae

<400> 6316

```

His Leu Phe Leu Leu Lys Lys Gly Ile Ala Met Ala Asp Ser Phe Gln
1      5      10      15
Asn Glu Val Pro Lys Ala Arg Ile Asn Leu Lys Leu Ala Leu His Thr
      20      25      30
Gly Gly Ala Gln Lys Lys Ile Glu Leu Pro Leu Lys Leu Thr Val
      35      40      45
Gly Asp Phe Ser Asn Gly Lys Glu Asn Arg Pro Leu Ser Glu Arg Glu
      50      55      60
Lys Ile Asn Val Asn Lys Asn Asn Phe Asn Ser Val Leu Ser Glu Phe
65      70      75      80
Asn Pro Glu Val Asn Leu Thr Val Pro Asn Thr Met Ala Gly Asp Gly
      85      90      95
Ser Glu Glu Ser Ile Lys Leu Asn Phe Ser Asp Ile Lys Asp Phe Glu
      100      105      110
Pro Glu Gln Val Ala Arg Gln Ile Pro Gln Leu Arg Ala Met Leu Ala
      115      120      125
Met Arg Asn Leu Leu Arg Asp Leu Lys Ser Asn Leu Leu Asp Asn Ala
      130      135      140
Thr Phe Arg Lys Glu Leu Glu Lys Ile Leu Lys Asp Pro Ala Leu Ser
145      150      155      160
Gln Glu Leu Arg Asp Glu Met Ser Ala Leu Ala Pro Lys
      165      170

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<210> 6317
 <211> 146
 <212> PRT
 <213> Enterobacter cloacae

<400> 6317

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Gly Asp Ala Leu Ser Met Met Thr Ser Ile Met Asp Thr Asp Met Lys
1      5      10      15
Thr Arg Ile Leu Leu Leu Thr Val Ser Val Leu Phe Asn Met Gln Ala
      20      25      30
Asp Ala Ala Arg Gly Arg Gln Pro Cys Ser Gly Ser Lys Gly Gly Ile
      35      40      45

```


Ala His Cys Thr Ser Asp Gly Arg Phe Val Cys Asn Asp Gly Ser Leu
 50 55 60
 Ser Gln Ser Lys Arg Phe Cys Ser Gly Tyr Gly Ala Ser Glu Leu Pro
 65 70 75 80
 Arg Gln Val Lys Pro Ser Pro Ser Ala Arg Lys Ala Gln Thr Lys Lys
 85 90 95
 Arg Ile Ala Val Lys Gly Gln Glu Gln Arg Val Val Glu Asn Asn Ala
 100 105 110
 Gln Phe Asp Thr Gln Pro Arg Gln Pro Thr Cys Ala Pro Leu Tyr Met
 115 120 125
 Ala Asn Lys Pro Gly Phe Thr His Leu Pro Ile Cys Ser Gly Asn Gln
 130 135 140
 Tyr
 145

<210> 6318

<211> 181

<212> PRT

<213> Enterobacter cloacae

<400> 6318

Lys Ala Gly Lys Glu His Leu Pro Ile Arg His Glu Leu Phe Glu Tyr
 1 5 10 15
 Ser Phe Leu Leu Phe Arg Arg Tyr Met Met Thr Leu Arg Thr Phe Pro
 20 25 30
 Val Leu Asn Asp Leu Ser Asp Ser Leu Phe Ala Asp Arg Phe Asn Arg
 35 40 45
 Ile Asp Arg Leu Phe Ser Gln Leu Thr Gly Ser Thr Pro Leu Pro Ser
 50 55 60
 Thr Pro Ser Tyr Asn Ile Arg Arg Leu Gly Asp Asn Arg Tyr Glu Leu
 65 70 75 80
 Thr Leu Ser Val Pro Gly Trp Lys Glu Ser Glu Leu Glu Ile Glu Thr
 85 90 95
 Val Gly Gly Gln Leu Asn Ile Ser Gly Lys Arg Glu Glu Glu Lys Thr
 100 105 110
 Glu Asn Gly Glu Glu Gly Trp Ile His Arg Gly Ile Ser Arg Ser Asp
 115 120 125
 Phe Arg Ala Ser Tyr Ser Leu Pro Glu His Val Lys Val Thr Gly Ala
 130 135 140
 Ser Leu Glu Asn Gly Leu Leu Ala Ile Glu Leu His Gln Asp Ile Pro
 145 150 155 160
 Glu Glu Glu Lys Pro Gln Arg Ile Ala Ile Asn Asn Asn Pro Ala Ile
 165 170 175
 Glu His Lys Pro
 180

<210> 6319

<211> 223

<212> PRT

<213> Enterobacter cloacae

<400> 6319

Ile Thr Trp Gly Phe Ile Met Phe Asn Glu Val His Ser Leu Pro Gly
 1 5 10 15
 His Thr Leu Leu Leu Ile Thr Lys Pro Ser Leu Gln Ala Thr Ala Leu
 20 25 30
 Leu Gln His Leu Lys Gln Cys Leu Ser Leu Asn Gly Lys Leu His Asn
 35 40 45
 Ile Gln Arg Ser Phe Asp Asp Ile Ala Ser Gly Ser Ile Ile Leu Leu
 50 55 60
 Asp Met Met Glu Ala Asp Lys Lys Leu Ile His Tyr Trp Gln Asp Asn

```

65          70          75          80
Leu Ser Arg Lys Asn Asn Ile Arg Val Leu Leu Leu Asn Thr Pro
85          90          95
Asp Glu Tyr Pro Phe Arg Glu Ile Glu Ser Trp Pro His Ile Asn Gly
100         105         110
Val Phe Tyr Val Thr Glu Glu Glu Asn Arg Val Val Glu Gly Leu Gln
115         120         125
Gly Ile Leu Arg Gly Glu Cys Tyr Phe Ser Gln Lys Leu Ala Ser Tyr
130         135         140
Leu Ile Thr His Ser Gly Asn Tyr Arg Tyr Asn Ser Ser Glu Ser Ala
145         150         155         160
Leu Leu Thr His Arg Glu Lys Glu Ile Leu Asn Lys Leu Arg Ile Gly
165         170         175
Ala Ser Asn Ile Glu Ile Ala Arg Ser Leu Phe Ile Ser Glu Asn Thr
180         185         190
Val Lys Thr His Leu Tyr Asn Leu Phe Lys Lys Ile Ala Val Lys Asn
195         200         205
Arg Thr Gln Ala Val Ser Trp Ala Asn Asp Asn Leu Arg Arg
210         215         220

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<210> 6320

<211> 150

<212> PRT

<213> Enterobacter cloacae

<400> 6320

```

Val Leu Thr Thr Ile Pro Ile Ser Glu Ala Val Met Arg Leu Ala His
1          5          10          15
Thr Val Ile Ser Leu Met Leu Ile Ala Pro Leu Ser Trp Ala Gly Asn
20         25         30
Met Thr Phe Gln Phe Arg Asn Pro Asn Phe Gly Gly Asn Pro Asn Asn
35         40         45
Gly Ala Phe Met Leu Asn Gln Ala Gln Ala Gln Asn Ser Tyr Lys Asp
50         55         60
Pro Ser Tyr Asp Asp Asp Phe Gly Ile Glu Thr Pro Ser Ala Leu Asp
65         70         75         80
Asn Phe Thr Gln Ala Ile Gln Ser Gln Ile Leu Gly Gly Leu Leu Thr
85         90         95
Asn Ile Asn Thr Gly Lys Pro Gly Arg Met Val Thr Asn Asp Phe Ile
100        105        110
Val Asp Ile Ala Asn Lys Asp Gly Gln Leu Gln Leu Asn Val Thr Asp
115        120        125
Arg Lys Thr Gly Lys Thr Ser Thr Ile Gln Val Ser Gly Leu Gln Thr
130        135        140
Ser Ser Thr Asp Phe
145          150

```

<210> 6321

<211> 150

<212> PRT

<213> Enterobacter cloacae

<400> 6321

```

Leu Leu Lys Ile Ala Arg Arg Arg Cys Arg Gly Gln Thr Ile Thr Ser
1          5          10          15
Gly Val Asn Ser Met Lys Arg Thr Leu Ser Trp Ile Ala Ala Gly
20         25         30
Ile Met Leu Ala Ala Gly Asn Leu Gln Ala Val Glu Val Glu Val Pro
35         40         45
Gly Leu Leu Thr Asp His Thr Val Thr Ser Val Gly His Asp Phe Tyr
50         55         60

```

Arg Ala Phe Ser Asp Lys Trp Glu Ser Asp Tyr Pro Gly Asn Leu Thr
 65 70 75 80
 Ile Asn Glu Arg Pro Ser Ala Arg Trp Gly Ser Trp Ile Thr Ile Thr
 85 90 95
 Ala Asn Gln Asp Val Ile Tyr Gln Thr Phe Leu Phe Pro Thr Lys Arg
 100 105 110
 Asp Phe Asp Gln Asn Val Ala Phe Ala Leu Ala Gln Thr Glu Glu Ala
 115 120 125
 Ile Asn Arg Leu Gln Leu Asp Lys Ala Leu Leu Ser Thr Gly Asp Leu
 130 135 140
 Ala Lys Asp Glu Phe
 145 150

<210> 6322

<211> 289

<212> PRT

<213> Enterobacter cloacae

<400> 6322

Phe Leu Asn Asn Pro Glu Ile Arg Thr Ile Ile Met Gln Arg Phe Phe
 1 5 10 15
 Ile Leu Val Ala Val Cys Leu Leu Ser Gly Cys Leu Thr Ala Pro Pro
 20 25 30
 Lys Glu Ala Ala Lys Pro Thr Leu Met Pro Arg Ala Gln Ser Tyr Arg
 35 40 45
 Asp Leu Thr His Leu Pro Val Pro Thr Gly Lys Ile Phe Val Ser Val
 50 55 60
 Tyr Asn Ile Gln Asp Glu Thr Gly Gln Phe Lys Pro Tyr Pro Ala Ser
 65 70 75 80
 Asn Phe Ser Thr Ala Val Pro Gln Ser Ala Thr Ala Met Leu Val Thr
 85 90 95
 Ala Leu Lys Asp Ser Arg Trp Phe Ile Pro Leu Glu Arg Gln Gly Leu
 100 105 110
 Gln Asn Leu Leu Asn Glu Arg Lys Ile Ile Arg Ala Ala Gln Glu Asn
 115 120 125
 Gly Thr Val Gly Val Asn Asn Arg Met Pro Leu Gln Ser Leu Thr Ala
 130 135 140
 Ala Asn Ile Met Val Glu Gly Ser Ile Ile Gly Tyr Glu Ser Asn Val
 145 150 155 160
 Lys Ser Gly Gly Ala Gly Ala Arg Tyr Phe Gly Ile Gly Ala Asp Thr
 165 170 175
 Gln Tyr Gln Leu Asp Gln Ile Ala Val Asn Leu Arg Val Val Asn Val
 180 185 190
 Ser Thr Gly Glu Ile Leu Ser Ser Val Thr Thr Ser Lys Thr Ile Leu
 195 200 205
 Ser Tyr Glu Val Gln Ala Gly Val Phe Arg Phe Ile Asp Tyr Gln Arg
 210 215 220
 Leu Leu Glu Gly Glu Ile Gly Tyr Thr Ser Asn Glu Pro Val Met Leu
 225 230 235 240
 Cys Leu Met Ser Ala Ile Glu Thr Gly Val Ile Phe Leu Ile Asn Asp
 245 250 255
 Gly Ile Asp Arg Gly Leu Trp Asp Leu Gln Asn Lys Ser Asp Val Ser
 260 265 270
 Asn Ala Val Leu Val Lys Tyr Arg Glu Met Ser Val Pro Pro Glu Ser
 275 280 285

<210> 6323

<211> 189

<212> PRT

<213> Enterobacter cloacae

<400> 6323

```

Arg Asn Lys Asn Met Asn Glu Phe Ser Ile Leu Cys Arg Val Leu Gly
1          5          10          15
Thr Leu Tyr Tyr Arg Gln Pro Gln Asp Pro Leu Leu Val Pro Leu Phe
20          25          30
Thr Leu Ile Arg Glu Gly Lys Leu Ala Gln Ser Trp Pro Leu Glu Gln
35          40          45
Asp Glu Leu Leu Glu Arg Leu Gln Lys Ser Cys Asp Met Gln Gln Ile
50          55          60
Ser Thr Asp Tyr Asn Ala Leu Phe Val Gly Glu Cys Arg Val Ser
65          70          75          80
Pro Tyr Arg Ser Ala Trp Gln Glu Gly Ala Thr Glu Ala Glu Val Arg
85          90          95
Ala Phe Leu Ser Glu Arg Gly Met Pro Leu Thr Asp Met Pro Ala Asp
100         105         110
His Ile Gly Thr Leu Leu Leu Ala Ala Ser Trp Ile Glu Asp Asn Ala
115         120         125
Gly Asp Asp Glu Asn Glu Ala Ile Glu Thr Leu Phe Glu Thr Tyr Leu
130         135         140
Leu Pro Trp Val Gly Thr Phe Leu Gly Lys Val Glu Ala His Ala Thr
145         150         155         160
Ser Pro Phe Trp Arg Thr Leu Ala Pro Leu Thr Arg Asp Ala Ile Ala
165         170         175
Ala Met Trp Asp Glu Leu Glu Glu Glu Asn Glu Glu
180         185

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<210> 6324

<211> 193

<212> PRT

<213> Enterobacter cloacae

<400> 6324

```

Leu Glu Ser Gln Lys Ser Cys Asn Asp Thr Phe Gln Leu Ala Arg Asn
1          5          10          15
Val Leu Leu Ile Ser Phe Leu Trp Cys Ala Ser Ala Lys Met Arg Thr
20          25          30
Met Asn Ile Leu Leu Cys Ile Ala Ile Thr Thr Gly Ile Leu Ser Gly
35          40          45
Leu Trp Ser Trp Val Ala Val Ser Leu Gly Leu Leu Ser Trp Ala Gly
50          55          60
Phe Leu Gly Cys Thr Ala Tyr Phe Ala Cys Pro Gln Gly Gly Leu Lys
65          70          75          80
Gly Leu Phe Ile Ser Gly Cys Thr Leu Leu Ser Gly Val Val Trp Ala
85          90          95
Leu Val Ile Met Lys Gly Ser Ala Leu Ala Pro His Val Glu Ile Leu
100         105         110
Gly Tyr Ala Met Thr Gly Ile Val Ala Phe Leu Met Cys Val Gln Ala
115         120         125
Lys His Leu Leu Leu Ser Phe Val Pro Gly Thr Phe Met Gly Ala Cys
130         135         140
Ala Thr Phe Ala Gly Gln Gly Asp Trp Lys Leu Val Val Pro Ser Leu
145         150         155         160
Met Leu Gly Leu Leu Phe Gly Tyr Ala Met Lys Asn Ser Gly Leu Trp
165         170         175
Leu Ala Ala Arg Arg Glu Lys Ser Gln Ser Val Pro Ala Val Ser Lys
180         185         190

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<210> 6325
 <211> 267
 <212> PRT
 <213> Enterobacter cloacae

<400> 6325
 Arg Ile Ala Gln Leu Glu Gly Arg Leu Gly Val Arg Leu Ile Gln Arg
 1 5 10 15
 Thr Thr Arg Gln Phe Ala Val Thr Glu Val Gly Gln Thr Phe Tyr Gln
 20 25 30
 His Cys Lys Ala Met Leu Val Glu Ala Glu Ala Glu Ala Val
 35 40 45
 Ala Ala Leu Gln Asp Glu Pro Arg Gly Met Val Arg Ile Thr Cys Pro
 50 55 60
 Val Thr Leu Leu His Val His Val Gly Pro Met Leu Ala Arg Phe Met
 65 70 75 80
 Ala Arg Tyr Pro Gly Ile Asn Leu Gln Leu Glu Ala Thr Asn Arg Arg
 85 90 95
 Val Asp Leu Val Ala Glu Gly Val Asp Val Ala Ile Arg Val Arg Pro
 100 105 110
 Arg Pro Phe Asp Asp Ser Glu Leu Val Leu Arg Val Leu Ala Asp Arg
 115 120 125
 Gly His Cys Leu Val Ala Gly Pro Ala Leu Ile Glu Arg Met Gly Asn
 130 135 140
 Pro Ala Met Pro Ser Glu Leu Ser Glu Trp Pro Gly Leu Ser Met Gly
 145 150 155 160
 Ala Gly Lys His Leu His Lys Trp Glu Leu Asn Gly Pro Glu Gly Ala
 165 170 175
 Lys Ala Glu Ile His Phe Thr Pro Arg Leu Val Thr Thr Asp Met Leu
 180 185 190
 Ala Leu Arg Glu Ala Ala Met Ala Gly Val Gly Val Val Gln Leu Pro
 195 200 205
 Ile Leu Met Val Lys Asp Gln Leu Ala Ser Gly Glu Leu Val Arg Val
 210 215 220
 Leu Asn Ala Trp Glu Pro Arg Arg Glu Val Ile His Ala Val Tyr Pro
 225 230 235 240
 Ser Arg Arg Gly Leu Leu Pro Ser Val Arg Thr Leu Val Asp Phe Leu
 245 250 255
 Thr Glu Glu Tyr Ala Lys Met Val Glu Asp
 260 265

<210> 6326
 <211> 145
 <212> PRT
 <213> Enterobacter cloacae

<400> 6326
 Leu Phe Val Gly Arg Val Ser Val Ala Pro Pro Asp Thr Ile Thr Ala
 1 5 10 15
 Gly Ala Ala Lys Phe Glu Ser Pro Thr Gly Val Gln His Val Lys Lys
 20 25 30
 Lys Pro Ala Phe Ser Cys Glu Leu Phe Phe Lys Tyr Gly Gly Glu Gly
 35 40 45
 Gly Ile Asp Ser Leu Arg Ser Pro Phe Gly Gln Pro Val Arg Tyr Ala
 50 55 60
 Leu Ser Leu Ser Asn Trp Leu Ser Pro Val Ala Glu Pro Arg Ser Gly
 65 70 75 80
 Gly Leu Ile Pro Pro Tyr Glu Asn Ile Lys Glu Lys Ser Pro Tyr Phe
 85 90 95
 Arg Thr Ser Ser His His Glu Tyr Gly Gly Glu Gly Gly Ile Arg Thr
 100 105 110

Pro Asp Thr Leu Pro Tyr Thr His Phe Pro Gly Val Leu Leu Gln Pro
 115 120 125
 Leu Gly His Leu Thr Ile Leu Ser Ser Arg Cys Cys Arg Asp Gly Arg
 130 135 140

145

<210> 6327

<211> 317

<212> PRT

<213> Enterobacter cloacae

<400> 6327

Lys Ala Met Thr Met Asp Ile Ile Phe Tyr His Pro Thr Phe Asp Thr
 1 5 10 15
 Ala Tyr Trp Ile Asn Ala Leu Thr Ala Ala Leu Pro Gly Ala Arg Val
 20 25 30
 Arg Glu Trp Lys Gln Gly Asp Asn Glu His Ala Asp Tyr Ala Leu Val
 35 40 45
 Trp His Pro Pro Val Glu Met Leu Gln Gly Arg Arg Leu Lys Ala Val
 50 55 60
 Phe Ala Leu Gly Ala Gly Val Asp Ser Ile Leu Ser Lys Leu Lys Ala
 65 70 75 80
 His Pro Glu Met Leu Pro Glu Asp Ile Pro Leu Phe Arg Leu Glu Asp
 85 90 95
 Thr Gly Met Gly Gln Gln Met Gln Glu Tyr Ala Val Ser Gln Val Leu
 100 105 110
 His Trp Phe Arg Arg Phe Asp Asp Tyr Gln Ala Phe Lys Gln Gln Ser
 115 120 125
 His Trp Glu Pro Leu Pro Asp Tyr Gln Arg Glu Asp Phe Thr Ile Gly
 130 135 140
 Ile Leu Gly Ala Gly Val Leu Gly Ser Lys Val Ala Glu Ala Leu Ala
 145 150 155 160
 Pro Trp Gly Phe Pro Leu Arg Cys Trp Ser Arg Ser Arg Lys Glu Tyr
 165 170 175
 Pro Gly Val Glu Ser Phe Ala Gly Thr Asp Glu Leu Pro Ala Phe Leu
 180 185 190
 Lys Gly Thr Arg Val Leu Ile Asn Leu Leu Pro Asn Thr Ala Glu Thr
 195 200 205
 Val Gly Ile Ile Asn Gly Thr Leu Leu Asn Gln Leu Ala Glu Asp Ser
 210 215 220
 Tyr Leu Met Asn Leu Ala Arg Gly Val His Val Val Glu Asp Asp Leu
 225 230 235 240
 Leu Lys Ala Leu Asp Ser Gly Lys Leu Lys Gly Ala Met Leu Asp Val
 245 250 255
 Tyr Ser Arg Glu Pro Leu Pro Lys Asp Ser Pro Leu Trp Ala His Pro
 260 265 270
 Arg Val Ala Met Thr Pro His Ile Ala Ala Val Thr Arg Pro Ala Glu
 275 280 285
 Ala Val Ala Tyr Ile Ser His Thr Ile Ser Glu Ile Glu Lys Gly Asn
 290 295 300
 Ala Val Thr Gly Gln Val Asp Arg Gln Arg Ser Tyr
 305 310 315

<210> 6328

<211> 258

<212> PRT

<213> Enterobacter cloacae

<400> 6328

Leu Leu Ser Phe Gly Lys Thr Ala Glu Glu Arg Lys Met Tyr Pro Val

```

1           5           10           15
Asp Leu His Met His Thr Val Ala Ser Thr His Ala Tyr Ser Asn Leu
20           25           30
His Asp Tyr Ile Ala Gln Ala Lys Leu Lys Gly Ile Lys Leu Phe Ala
35           40           45
Ile Thr Asp His Gly Pro Asp Met Ala Asp Ala Pro His Tyr Trp His
50           55           60
Phe Val Asn Met Arg Ile Trp Pro Arg Leu Val Asp Gly Ile Gly Ile
65           70           75           80
Leu Arg Gly Ile Glu Ala Asn Ile Lys Asn Thr Asp Gly Glu Ile Asp
85           90           95
Cys Thr Gly Pro Met Leu Thr Ser Leu Asp Leu Ile Leu Ala Gly Phe
100          105          110
His Glu Pro Val Phe Ala Pro Gln Asp Lys Glu Thr Asn Thr Ala Ala
115          120          125
Met Ile Ala Thr Ile Ala Ser Gly Asn Val His Ile Ile Ser His Pro
130          135          140
Gly Asn Pro Lys Tyr Pro Ile Asp Ile Gln Ala Val Ala Gln Ala Ala
145          150          155          160
Ala Lys His Arg Val Ala Leu Glu Ile Asn Asn Ser Ser Phe Val His
165          170          175
Ser Arg Lys Gly Ser Glu Ala Asn Cys Arg Glu Val Ala Ala Val
180          185          190
Arg Asp Ala Gly Gly Met Val Ala Leu Gly Ser Asp Ser His Thr Ala
195          200          205
Phe Thr Leu Gly Asp Phe Ser Glu Cys Leu Lys Ile Leu Arg Asp Val
210          215          220
Asn Phe Pro Glu Glu Gln Ile Leu Asn Val Thr Pro Arg Arg Met Leu
225          230          235          240
Asp Phe Leu Glu Ser Arg Gly Met Ala Pro Ile Asp Glu Phe Ala Asp
245          250          255
Leu

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<210> 6329

<211> 509

<212> PRT

<213> Enterobacter cloacae

<400> 6329

```

Val Ile Thr Lys Lys Val Ser Asn Thr Lys Ala Trp Thr Gly Ser Leu
1           5           10           15
His Gly Asp Ala Thr Phe Gln Gly Asn His Asp Ser Gly Asp Ile Phe
20           25           30
Gln Thr Asn Ala Tyr Ala Cys Gly Pro Leu Ile Asp Gly Leu Leu Gly
35           40           45
Ala Lys Val Thr Gly Leu Leu Ser Arg Arg Ala Glu Asp Lys Ile Val
50           55           60
Asn Gly Tyr Asn Glu Gln Lys Met Arg Asn Gly Gly Ile Thr Leu Asn
65           70           75           80
Phe Thr Pro Asp Glu Lys Asn Asp Phe Asp Leu Asp Phe Ala Arg Glu
85           90           95
Leu Gln Asp Arg Asn Ser Thr Pro Gly Met Ser Lys Ala Ala Glu Thr
100          105          110
Cys Arg Gly Thr Thr Cys Thr Pro Asn Thr Lys Ser Asp Ser Arg Tyr
115          120          125
Glu His Thr Thr Tyr Ser Leu Thr His Ser Gly Tyr Tyr Glu Asp Phe
130          135          140
Asn Thr Thr Ser Tyr Ile Gln Gln Glu Glu Thr Asn Asn Pro Gly Arg
145          150          155          160
Glu Met Arg Ser Tyr Asn Thr Thr Phe Asn Asn Gln Asn Gln Ile Phe

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165 170 175
 Leu Gly Asp His Thr Leu Thr Leu Gly Gly Gln Tyr Arg Tyr Glu Lys
 180 185 190
 Leu Arg Asp Asn Gly Asn Gln Leu Glu Ala Ala Asp Gly Leu Asn Lys
 195 200 205
 Leu Thr Arg Trp Ser Trp Ala Leu Phe Ala Glu Asp Glu Trp Ser Met
 210 215 220
 Thr Glu Ser Phe Thr Leu Thr Gly Gly Leu Arg Met Asp Lys Asp Gln
 225 230 235 240
 Asn Tyr Gly Thr Asn Trp Thr Pro Arg Gly Tyr Gly Val Trp His Leu
 245 250 255
 Ala Asp Gln Trp Thr Leu Lys Gly Gly Val Ser Ala Gly Tyr Arg Ala
 260 265 270
 Pro Asp Leu Arg Gln Ser Ser Ala Ser Trp Gly Gln Val Thr Gly Gly
 275 280 285
 Gly Arg Leu Asp Gly Ile Ile Val Gly Asn Pro Asp Leu Lys Pro Glu
 290 295 300
 Lys Ser Leu Ser Glu Glu Leu Ala Leu Leu Trp Asp Asn Asn Asp Asp
 305 310 315 320
 Leu Asn Ala Gly Val Thr Leu Phe Asn Thr Asp Phe Lys Asp Lys Ile
 325 330 335
 Thr Glu Val Arg Arg Cys Asn Ser Ser Ala Asp Pro Ala Cys Thr Ile
 340 345 350
 Gly Gly His Ser Tyr Asp Phe Val Ser Asp Arg Val Asn Val Asp Lys
 355 360 365
 Ala Asn Met Arg Gly Val Glu Ser Ser Phe Gly Trp Lys Ile Thr Arg
 370 375 380
 Asp Val Asn Trp Thr Ala Asn Tyr Thr Tyr Thr Glu Ser Glu Gln Lys
 385 390 395 400
 Ser Gly Gln Phe Ser Gly Lys Pro Leu Asn Lys Met Pro Lys His Met
 405 410 415
 Phe Asn Thr Thr Leu Asp Trp Gln Ala Thr Pro Asp Val Gly Phe Trp
 420 425 430
 Ser Arg Leu Asn Leu Arg Gly Lys Thr Ser Glu Tyr Leu Ser Arg Thr
 435 440 445
 Ser Met Ser Gln Gly Thr Pro Ser Tyr Thr Gln Val Asp Val Gly Met
 450 455 460
 Arg Tyr Asn Ala Asn Lys Asn Leu Leu Val Thr Ala Gly Val Tyr Asn
 465 470 475 480
 Val Leu Asp Lys Gln Ile Asp Tyr Asp Thr Tyr Asp Thr Val Leu Asp
 485 490 495
 Gly Arg Arg Tyr Thr Val Gly Met Thr Tyr Ser Phe
 500 505

<210> 6330

<211> 368

<212> PRT

<213> Enterobacter cloacae

<400> 6330

Ser Ile Leu Phe Leu Ser Gln Ser Ala Val Thr Phe Ser Gln Thr Lys
 1 5 10 15
 Glu Lys Val Met Ser Glu Ile Thr Leu Gln His His Arg Thr Val Trp
 20 25 30
 His Phe Val Pro Gly Leu Ala Leu Ser Ala Val Val Thr Gly Val Ala
 35 40 45
 Leu Trp Gly Gly Ser Ile Pro Ala Val Ala Gly Ala Gly Phe Ser Ala
 50 55 60
 Leu Thr Leu Ala Ile Leu Leu Gly Met Val Val Gly Asn Thr Val Tyr
 65 70 75 80
 Pro His Ile Trp Lys Ser Cys Asp Gly Gly Val Ile Phe Ala Lys Gln


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<210> 6331
<211> 291
<212> PRT
<213> Enterobacter cloacae
```

Ala	Phe	Arg	Val	Asn	Arg	Ser	Leu	Phe	Met	Lys	Tyr	Val	Gly	Ala	His
1				5					10					15	
Val	Ser	Ala	Ala	Gly	Gly	Leu	Ala	Asn	Ala	Ala	Ile	Arg	Ala	Ala	Glu
			20					25					30		
Ile	Glu	Ala	Thr	Ala	Phe	Ala	Leu	Phe	Thr	Lys	Asn	Gln	Arg	Gln	Trp
		35					40					45			
Arg	Ala	Ala	Pro	Leu	Thr	Ala	Glu	Val	Ile	Asp	Asp	Phe	Lys	Ala	Ala
	50					55					60				
Cys	Glu	Lys	Tyr	Gly	Tyr	Gly	Pro	Gly	Gln	Ile	Leu	Pro	His	Asp	Ser
65					70					75					80
Tyr	Leu	Ile	Asn	Leu	Gly	His	Pro	Val	Ala	Glu	Ala	Leu	Glu	Lys	Ser
			85						90					95	
Arg	Glu	Ala	Phe	Leu	Asp	Glu	Val	Gln	Arg	Cys	Glu	Gln	Leu	Gly	Leu
			100					105					110		
Thr	Leu	Leu	Asn	Phe	His	Pro	Gly	Ser	His	Leu	Met	Gln	Ile	Asp	Glu
		115					120					125			
Asp	Ala	Cys	Leu	Ala	Arg	Ile	Ala	Glu	Ser	Ile	Asn	Met	Thr	Leu	Asp
	130					135					140				
Lys	Thr	Gln	Gly	Val	Thr	Ala	Val	Ile	Glu	Asn	Thr	Ala	Gly	Gln	Gly

145 150 155 160
 Ser Asn Leu Gly Phe Lys Phe Glu His Leu Ala Ala Ile Ile Asp Gly
 165 170 175
 Val Glu Asp Lys Ser Arg Val Gly Val Cys Ile Asp Thr Cys His Ala
 180 185 190
 Phe Ala Ala Gly Tyr Asp Leu Arg Thr Thr Glu Ala Thr Lys Asn Thr
 195 200 205
 Phe Glu Glu Phe Glu Arg Ile Val Gly Phe Lys Tyr Leu Arg Gly Met
 210 215 220
 His Leu Asn Asp Ala Lys Ser Ala Phe Gly Ser Arg Val Asp Arg His
 225 230 235 240
 His Ser Leu Gly Glu Gly Asn Ile Gly His Asp Ala Phe Arg Phe Ile
 245 250 255
 Met Gln Asp Val Arg Phe Glu Gly Ile Pro Met Val Leu Glu Thr Ile
 260 265 270
 Asn Pro Asp Ile Trp Ala Glu Glu Ile Phe Trp Leu Lys Ala His Gln
 275 280 285
 Thr Pro
 290

<210> 6332

<211> 291

<212> PRT

<213> *Enterobacter cloacae*

<400> 6332

Ala Thr Met His Ile Thr Leu Arg Gln Leu Glu Val Phe Ala Glu Val
 1 5 10 15
 Leu Lys Ser Gly Ser Thr Thr Gln Ala Ser Gln Met Leu Ala Leu Ser
 20 25 30
 Gln Ser Ala Val Ser Ala Ala Leu Thr Asp Leu Glu Gly Gln Leu Gly
 35 40 45
 Val Gln Leu Phe Asp Arg Val Gly Lys Arg Leu Val Val Asn Glu His
 50 55 60
 Gly Arg Leu Leu Tyr Pro Arg Ala Leu Ala Leu Leu Glu Gln Ala Thr
 65 70 75 80
 Glu Ile Glu Gln Leu Phe Arg Glu Asp Asn Gly Ala Ile Arg Val Tyr
 85 90 95
 Ala Ser Ser Thr Ile Gly Asn Tyr Ile Leu Pro Glu Val Ile Ala Arg
 100 105 110
 Tyr Arg Arg Asp Phe Pro Thr Leu Pro Leu Glu Met Ser Val Gly Asn
 115 120 125
 Ser Gln Asp Val Ile Asn Ala Val Ile Asp Phe Arg Val Asp Ile Gly
 130 135 140
 Leu Ile Glu Gly Pro Cys His Asn Val Asp Ile Ile Ala Glu Pro Trp
 145 150 155 160
 Leu Glu Asp Glu Leu Val Val Phe Ala Ser Pro Ala Ser Ser Leu Leu
 165 170 175
 Gln Gly Glu Val Thr Leu Glu Arg Leu Ala Gln Ala Gln Trp Ile Leu
 180 185 190
 Arg Glu Gln Gly Ser Gly Thr Arg Glu Ile Val Asp Tyr Leu Leu Leu
 195 200 205
 Ser His Leu Pro Gln Phe Gln Leu Gly Met Glu Leu Gly Asn Ser Glu
 210 215 220
 Ala Ile Lys His Ala Val Arg His Gly Leu Gly Ile Ser Cys Leu Ser
 225 230 235 240
 Arg Arg Val Ile Ala Glu Gln Leu Glu Thr Gly Ser Leu Val Glu Ile
 245 250 255
 Pro Val Pro Leu Pro Lys Leu Val Arg Thr Leu Trp Cys Ile His His
 260 265 270
 Arg Gln Lys His Leu Ser Ser Ser Leu Gln Arg Phe Leu Arg Tyr Cys

275 280 285
 Glu Met
 290

 <210> 6333
 <211> 519
 <212> PRT
 <213> Enterobacter cloacae

 <400> 6333
 Ser Ser Leu Ile Thr Glu Tyr Phe Cys Arg Lys Gln Arg Arg Ser Ser
 1 5 10 15
 Ala Thr Ile Ala Pro His Leu Leu Asn Gly Gln His Phe His Met Val
 20 25 30
 Ser Glu Thr Lys Thr Thr Gln Ala Pro Ala Leu Arg Arg Ala Leu Lys
 35 40 45
 Ala Arg His Leu Thr Met Ile Ala Ile Gly Gly Ser Ile Gly Thr Gly
 50 55 60
 Leu Phe Val Ala Ser Gly Ala Thr Ile Ser Ala Ala Gly Pro Gly Gly
 65 70 75 80
 Ala Leu Phe Ser Tyr Ile Leu Ile Gly Leu Met Val Tyr Phe Leu Met
 85 90 95
 Thr Ser Leu Gly Glu Leu Ala Ala Tyr Met Pro Val Ser Gly Ser Phe
 100 105 110
 Ser Thr Tyr Gly Gln Lys Tyr Val Glu Glu Gly Phe Gly Phe Ala Leu
 115 120 125
 Gly Trp Asn Tyr Trp Tyr Asn Trp Ala Val Thr Ile Ala Val Asp Leu
 130 135 140
 Val Ala Ala Gln Leu Val Met Thr Trp Trp Phe Pro Asp Thr Pro Gly
 145 150 155 160
 Trp Ile Trp Ser Ala Leu Phe Leu Ala Val Ile Phe Leu Leu Asn Tyr
 165 170 175
 Ile Ser Val Arg Gly Phe Gly Glu Ala Glu Tyr Trp Phe Ser Leu Ile
 180 185 190
 Lys Val Ala Thr Val Ile Ile Phe Ile Val Val Gly Val Ala Met Ile
 195 200 205
 Val Gly Ile Phe Lys Gly Ala Glu Pro Ala Gly Trp Ser Asn Trp Thr
 210 215 220
 Ile Gly Asp Ala Pro Phe Ala Gly Gly Phe Ser Ala Met Ile Gly Val
 225 230 235 240
 Ala Met Ile Val Gly Phe Ser Phe Gln Gly Thr Glu Leu Ile Gly Ile
 245 250 255
 Ala Ala Gly Glu Ser Glu Asn Pro Glu Lys Asn Ile Pro Arg Ala Val
 260 265 270
 Arg Gln Val Phe Trp Arg Ile Leu Leu Phe Tyr Val Phe Ala Ile Leu
 275 280 285
 Ile Ile Ser Leu Ile Ile Pro Tyr Thr Asp Pro Ser Leu Leu Arg Asn
 290 295 300
 Asp Val Lys Asp Ile Ser Val Ser Pro Phe Thr Leu Val Phe Gln His
 305 310 315 320
 Ala Gly Leu Leu Ser Ala Ala Ala Val Met Asn Ala Val Ile Leu Thr
 325 330 335
 Ala Val Leu Ser Ala Gly Asn Ser Gly Met Tyr Ala Ser Thr Arg Met
 340 345 350
 Leu Tyr Thr Leu Ala Cys Asp Gly Lys Ala Pro Arg Ile Phe Ser Lys
 355 360 365
 Leu Ser Arg Gly Gly Val Pro Arg Asn Ala Leu Tyr Ala Thr Thr Val
 370 375 380
 Ile Ala Gly Leu Cys Phe Leu Thr Ser Met Phe Gly Asn Gln Thr Val
 385 390 395 400
 Tyr Leu Trp Leu Leu Asn Thr Ser Gly Met Thr Gly Phe Ile Ala Trp

405 410 415
 Leu Gly Ile Ala Ile Ser His Tyr Arg Phe Arg Arg Gly Tyr Val Lys
 420 425 430
 Gln Gly His Asp Leu Asn Asn Leu Pro Tyr Arg Ser Gly Phe Phe Pro
 435 440 445
 Leu Gly Pro Ile Phe Ala Phe Val Leu Cys Leu Ile Ile Thr Leu Gly
 450 455 460
 Gln Asn Tyr Glu Ala Phe Leu Ala Asp Thr Ile Asp Trp Gly Ala Val
 465 470 475 480
 Thr Ala Thr Tyr Ile Gly Ile Pro Leu Phe Leu Ile Ile Trp Phe Gly
 485 490 495
 Tyr Lys Leu Thr Lys Gly Thr Arg Phe Val Arg Tyr Ser Glu Met Asp
 500 505 510
 Phe Pro Glu Arg Phe Lys
 515

<210> 6334

<211> 203

<212> PRT

<213> Enterobacter cloacae

<400> 6334

Arg Thr Gly Lys Met Ser Ser Leu Asp Ser Glu Ala Lys Pro Asp Asn
 1 5 10 15
 Ala Gly His Ser Val Leu Ala Leu Thr Thr Ser His Ser Leu Val Val
 20 25 30
 Ser Ser Ser Glu Thr Phe Leu Pro Asp Met Arg Lys Glu Leu Gly Ile
 35 40 45
 Ile Ala Asp Leu Val Glu Ser Tyr Asn Asp Glu Leu Cys Leu Leu Lys
 50 55 60
 His Met Ala Val Gln Phe Lys Thr His Asn His Gln Lys Leu Tyr Ser
 65 70 75 80
 Tyr Leu Ser Gly Tyr Asn His Ser Ile Ser Glu Ala Asp Ala Leu Phe
 85 90 95
 Ala Glu Asn Ala Leu Arg Ser Glu Tyr Trp Lys Arg Val Met Ala Leu
 100 105 110
 Thr Asp Val Leu Pro Ile Met Ser Asp Ala Lys Arg Asn Glu Trp Asp
 115 120 125
 Lys Gln Phe Thr Ala Asp Arg Tyr Ile Met Pro Pro Gln Val Ile Pro
 130 135 140
 Asp Phe Thr Ala Asp Ala Val Val Gly Thr Val Val Ala Leu Leu Asn
 145 150 155 160
 Asp Arg Asn Gln Phe Ile Lys Glu Arg Val Tyr Asp Val Phe Gln Ser
 165 170 175
 Leu Ser Arg Ser His Lys Thr Asn Lys Ala Phe Gly Val Leu His Pro
 180 185 190
 His Asp His Tyr Arg Ser Leu Arg Ala Val
 195 200

<210> 6335

<211> 391

<212> PRT

<213> Enterobacter cloacae

<400> 6335

Ala Ala Val Ile Arg Gln Thr Lys Leu Leu Gly Phe Ser Thr Arg Met
 1 5 10 15
 Ile Thr Thr Gly Val Cys Glu Pro Ser Lys Tyr Pro Trp Gln Lys Leu
 20 25 30
 Arg Val Asp Phe Lys Glu Ser Gly Ile Ser Pro Leu Ser Glu Leu Arg
 35 40 45

Val Ile Cys Ala Phe Phe Arg Gly Glu Gln Val Lys Ala Ile His Asn
 50 55 60
 Thr Lys Ser Leu Val Glu Ala Leu Val Glu His Glu Gly Phe Arg Lys
 65 70 75 80
 Trp Ile Cys Ile Asp Gly Asn Ser Ile Arg Phe Arg Val Tyr Lys Asn
 85 90 95
 Gly Ser Met His Ile Asp Val His Pro Asp Ile Ala Glu Arg Leu Asn
 100 105 110
 Asn Ile Leu Ser Ala Ile Val Pro Leu Ala Leu Pro Ala Asp Arg Met
 115 120 125
 Ala His Ser Lys Lys Ser Leu Glu Ala Phe Pro Val Leu Lys Gln Cys
 130 135 140
 Ile Asp Phe Asp Thr Arg Met Gln Leu Ser Glu Leu Met Phe Lys Asn
 145 150 155 160
 Asp Gly Asp Asn Lys Trp Ser Cys Trp Thr Ser Leu Gly Ser Leu Ala
 165 170 175
 Glu Arg Lys Ser Ser Ser Val Ala Ala Asp Thr Leu Arg Phe Leu Gly
 180 185 190
 Ala Thr Val Thr Lys Tyr Asp Val Thr Phe Ser Tyr Asp Pro Cys Glu
 195 200 205
 Val Ile Arg Tyr Ile Gly Gln Ile Gly Glu Met Pro Asp Ile Val Ser
 210 215 220
 His Gln Phe Tyr Pro Ser Ser Cys Arg Ile Ser Glu Tyr Val Tyr Ser
 225 230 235 240
 Leu Leu Gly Ala Gly Glu Gly Asp Thr Leu Leu Glu Pro Asn Ile Gly
 245 250 255
 His Ala Asp Leu Leu Lys Ser Phe Pro Ala Gly Val Ile Val Thr Gly
 260 265 270
 Ile Glu Leu Asp Thr Leu Asn Cys Leu Ile Ser Arg Ala Lys Gly Tyr
 275 280 285
 Asp Thr Thr Glu Ala Asp Phe Leu Thr Trp Ser Lys Ser Asn Gln Gln
 290 295 300
 Lys Lys Phe Asp Tyr Val Val Met Asn Pro Pro Phe Ala Asp Asn Arg
 305 310 315 320
 Ala Arg Leu His Leu Gln Ala Ala Ala Ser His Leu Ala Ala Gly Gly
 325 330 335
 Ser Leu Ala Ala Val Leu Pro Leu Ser Leu Gln Gly Leu Asp Asn Leu
 340 345 350
 Leu Gly Glu Glu Phe Arg Thr Glu Trp Met Asp Val Phe Glu Asn Glu
 355 360 365
 Phe Glu Asn Thr Thr Val Ser Val Arg Ile Leu Tyr Ala Glu Arg Ile
 370 375 380
 Gln Gln Glu Glu Val Leu
 385 390

<210> 6336

<211> 396

<212> PRT

<213> Enterobacter cloacae

<400> 6336

Ala Glu Lys Cys Asn Gly Ala Pro Met Ser Val Leu Leu Thr Glu Pro
 1 5 10 15
 Thr Gln Gln Ala Asn Asp Lys Val Phe Lys Thr Ala His Val Ala Phe
 20 25 30
 Ser Val Val Thr Gly Thr Gly Arg Tyr Val Thr Gly Leu Lys Gln Phe
 35 40 45
 Arg Asp Ala Asn Pro Glu Leu Cys Thr Glu Val Ser Asp Gln Lys Ala
 50 55 60
 Trp Ala Ile His Pro Ser Val Ile Gln Val Thr Pro Gly Phe Asn Ser
 65 70 75 80

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<210> 6337
<211> 286
<212> PRT
<213> Enterobacter cloacae
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Ile	Ser	Leu	Ser	Gly	Ile	Asp	Thr	Leu	Thr	Arg	His	Leu	Arg	His	Met
1				5					10					15	
Pro	Ile	Ile	Lys	Trp	Ala	Gly	Gly	Lys	Thr	Lys	Leu	Met	Pro	Phe	Ile
			20					25					30		
Ser	His	His	Tyr	Pro	His	Asp	His	Ser	Cys	Arg	Trp	Val	Glu	Pro	Phe
		35					40					45			
Ile	Gly	Gly	Gly	Ala	Val	Phe	Leu	Asn	Met	Phe	Ala	Gln	Asn	Ala	Leu
	50					55					60				
Leu	Ala	Asp	Ser	Asn	Pro	Asp	Leu	Ile	Asn	Leu	Tyr	Arg	Thr	Ile	Gln
65					70					75					80
Arg	Gln	Lys	Thr	Asn	Phe	Ile	Asn	Gln	Val	Gln	Asn	Leu	Ala	Asp	Lys
				85					90					95	
Thr	Phe	Val	Glu	Lys	Asp	Tyr	Tyr	Glu	Met	Arg	Asp	Arg	Phe	Asn	Lys
			100					105					110		

Thr Cys Ile Ser Gly Gln Pro Leu Gln Arg Ala Ala Leu Phe Tyr Ser
 115 120 125
 Leu Asn Arg Leu Gly Tyr Asn Gly Met Cys Arg Tyr Asn Ser Glu Arg
 130 135 140
 Ile Tyr Ser Val Pro Trp Gly Lys His Thr Glu Leu Lys Leu Asp Phe
 145 150 155 160
 Asn Lys Ile Asp Tyr Leu Ser Phe Arg Leu Ser Gly Ile Glu Leu Ile
 165 170 175
 Thr Ala Gly Phe Glu Glu Thr Leu Ala Ala Thr Gly Glu Gly Asp Gln
 180 185 190
 Ile Tyr Cys Asp Pro Pro Tyr Asp Lys Thr Ser Lys Thr Ser Phe Val
 195 200 205
 Ser Tyr Asp Gly Lys Pro Phe Ser Gln Ser Asp His Val Leu Leu Ala
 210 215 220
 Asn Met Leu Val Asp Ala His Arg Lys Gly Ala Ala Val Ala Ile Ser
 225 230 235 240
 Asn Ser Leu Thr Pro Phe Thr Leu Gly Leu Tyr Glu Glu Arg Gly Phe
 245 250 255
 Val Ile His Arg Leu Ser Ala Tyr Arg Ser Val Gly Ser Lys Pro Asn
 260 265 270
 Thr Arg Lys Thr Glu Thr Glu Ile Leu Ala Val Leu Lys
 275 280 285

<210> 6338

<211> 199

<212> PRT

<213> Enterobacter cloacae

<400> 6338

Asp Cys Ile Thr Val Asp Cys Lys Cys Asp Phe Gln Arg Ile Val Leu
 1 5 10 15
 Ile Met Leu Lys Thr Leu Asn Val Ile Thr Asn Asn Asn Phe Tyr Phe
 20 25 30
 Tyr Ser Leu Ile Gly Ile Phe Ser Ala Asn Asp Val Leu Ala Asn Met
 35 40 45
 Tyr His Ile Lys Lys Ile Gly Ser Arg Asp Ile Ala Ser Trp Leu Lys
 50 55 60
 Glu Thr Gln Asp Asp His Ala Ile Val Met Ala Gly Pro Asp Thr Glu
 65 70 75 80
 Ser Leu Thr Lys Leu Ile Cys Thr Gln Arg Gly Tyr Asn Tyr Ile Ser
 85 90 95
 Ser Arg Ser Lys Val Lys Asp Met Met Gln Phe Phe Leu Lys Glu Tyr
 100 105 110
 Lys Pro Arg Lys Asn Ser Ala Tyr Leu Lys Ala Thr Asn Ser His Ile
 115 120 125
 Ser Thr Gln Asp Ile Lys Val Leu Ile Trp Val Ser Ser Gly Leu Lys
 130 135 140
 Pro Cys Asp Ile Ser Lys Arg Tyr Gly Ile Ser Ile Lys Thr Ile Ser
 145 150 155 160
 His His Lys Arg Asn Leu Met Lys Lys Leu Gln Ile Lys Ser Thr Met
 165 170 175
 Gln Leu Val Asp Val Ala Ser Gln Tyr Ser Leu Leu Cys Lys His Leu
 180 185 190
 Asn Thr Ser Cys Ala Leu
 195

<210> 6339

<211> 2654

<212> PRT

<213> Enterobacter cloacae

<400> 6339

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Met Arg Met Asn Lys Val Tyr Lys Val Ile Trp Asn His Ser Ala Gln
1      5      10
Arg Trp Asp Val Val Ser Glu Leu Thr Gly Ala Lys Lys Lys Ser Lys
20      25      30
Ser Ser Arg Val Gly Ala Ala Ile Ser Pro Leu Val Leu Leu Thr Ala
35      40      45
Leu Thr Leu Asn Pro Gly Phe Ala Tyr Ala Asp Ile Met Leu Pro Asn
50      55      60
Asn Trp Leu Ser Ser Asn Gln Asn Asn Gly Val Gly Ala Ala Val Val
65      70      75      80
Asn Gly Thr Glu Glu Asn Ile Ile Gly Pro Gly Val Ile Ser Gly Pro
85      90      95
Ser Ser Gly Thr Ser Tyr Met Ser Ile Thr Asp Ala Gln Lys Ala Gly
100     105     110
Tyr Ile Ile Ser Gly Asp Asp Leu Ser Gly Leu Val Tyr Thr Asp Ile
115     120     125
Gly Lys Arg Thr Arg Thr Val Gln Tyr Tyr Asp Ser Ile Thr Gly Ala
130     135     140
Asn Gln Thr Val Met Val Tyr Asp Ser Gly Thr Phe Ser Glu Ser Glu
145     150     155     160
Ala Ala Ser Asn Val Thr Val Pro Val Phe Ser Pro Gly Ala Asn Phe
165     170     175
Phe Tyr Lys Thr Arg Leu Val Thr Ala Lys Asn Gly Gly Thr Ala Asn
180     185     190
Ile Asp Val Lys Ala Ser Ser Ile Gly Ser Tyr Phe Lys Asp Ser Gln
195     200     205
Leu Val Val Ala Asp Gly Thr Asn Ser His Ala Asn Trp Asn Ser Gln
210     215     220
Asn Asn Phe Tyr Phe Gln Ala Ala Ala Arg Val Thr Asp Ser Ala Val
225     230     235     240
Tyr Asn Lys Thr Ile Asn Phe Ser Asn Tyr Thr Gly Ser Phe Thr Asp
245     250     255
Trp Glu Gly Lys Glu His Val Val Asn Ser Val Ala Asp Leu Gln Ser
260     265     270
Tyr Asn Asp Tyr Leu Ala Glu Ala Leu Lys Asp Gly Arg Leu Pro Pro
275     280     285
Gly Gln Tyr Glu Ala Glu Phe Asn Lys Ala Ile Gln Tyr Glu Ser Lys
290     295     300
Asp Tyr Ile Ile Asp Lys Thr Ala Gly Gly Thr Ile Asp Ser Ser Pro
305     310     315     320
Tyr Asn Ser Pro Val Gly Thr Leu Ala Val Leu Ser Ala Thr Asn Gly
325     330     335
Gly Thr Val Thr Leu Ser Ser Ser Gly Arg Leu Thr Gly Val Leu Pro
340     345     350
Ala Tyr Gly Tyr Gly Ala Gly Val Val Ala Ser Ser Gly Gly Thr Gly
355     360     365
Ile Asn Glu Gly Val Ile Asp Ala Thr Gly Ala Ala Met Arg Ala Tyr
370     375     380
Gln Asp Gly Thr Val Ile Asn Asn Gly Thr Ile Tyr Val Trp Asp Asn
385     390     395     400
Asn Thr Lys Tyr Thr Leu His Gly Glu Gly Met Leu Ala His Asn Ala
405     410     415
Asn Ala Lys Ala Val Asn Asn Gly Val Ile Asn Val Arg Pro Trp Lys
420     425     430
Asn Ser Phe Thr Pro Tyr Gly Ile Asn Thr Ala Met Leu Leu Ser Asp
435     440     445
Gly Gly Glu Gly Thr Asn Asn Gly Val Ile Asn Ile Thr Ala Asp Ala
450     455     460
Ser Thr Leu Asp Asn Asn Gly Ala Thr Arg Gly Ile Ser Val Ser Asp
465     470     475     480

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Gly	Gly	Thr	Phe	Ile	Asn	Ala	Gly	Asn	Gly	Lys	Ile	Thr	Val	Gly	Val
				485					490					495	
Asn	Ala	Gly	Gly	Thr	Lys	Ser	His	Ser	Ala	Val	Asp	Ser	Ile	Ala	Ile
			500					505					510		
Asp	Ile	Gly	Lys	Gly	Ala	Thr	Lys	Val	Val	Asn	Glu	Gly	Asp	Ile	Ile
		515					520					525			
Leu	Gly	Gln	Gly	Ala	Gln	Gly	Asp	Tyr	Gly	Val	Ser	Ala	Val	Asp	Ala
	530					535					540				
Gly	Thr	Val	Asn	Phe	Ile	Asn	Thr	Gly	Thr	Ile	Ser	Val	Glu	Gly	Gln
545					550					555					560
Asp	Ser	Ala	Thr	Pro	Ala	Leu	Asn	Ala	Gly	Ile	Arg	Ser	Ser	Asn	Ser
			565						570					575	
Ser	Gly	Leu	Val	Asn	Ser	Gly	Ile	Ile	Asn	Val	Asn	Gly	Thr	Asn	Asn
			580					585					590		
Ser	Gly	Ile	Leu	Ala	Glu	Asn	Gly	Gly	Ser	Val	Leu	Ser	Asp	Gly	Leu
		595					600					605			
Ile	Asn	Val	Gly	Ser	Val	Ser	Ala	Gly	Ser	Gly	Tyr	Arg	Asn	Tyr	Gly
	610					615					620				
Ala	Trp	Val	Asp	Gly	Ala	Ala	Ser	Ser	Val	Asp	Val	Ser	Gly	Gln	Ile
625					630					635					640
Asn	Leu	Ile	Gly	Ser	Gly	Ala	Ile	Gly	Ala	Phe	Ala	Asp	Asn	Ala	Gly
			645						650					655	
Ser	Leu	Ile	Leu	Ser	Gly	Thr	Gly	Ser	Ile	Ala	Phe	Asn	Asp	Ala	Glu
			660					665					670		
Gln	Ile	Gly	Phe	Tyr	Val	Asn	Gly	Lys	Gly	Ser	Ser	Val	Asn	Asn	Thr
	675					680						685			
Gly	Ser	Gly	Thr	Phe	Asp	Val	Ser	Ser	Arg	Asp	Ser	Ser	Met	Phe	Arg
	690				695					700					
Ile	Ala	Gly	Gly	Ala	Ser	Phe	Leu	Gly	Asn	Ser	Asp	Ala	Ser	Ser	Thr
705					710					715					720
Ile	Thr	Val	Ser	Gly	Glu	Asn	Ser	Leu	Ala	Leu	Val	Val	Thr	Gly	Ser
			725						730					735	
Ser	Asp	Gln	Gly	Asp	Val	Ser	Thr	Ile	Asn	Thr	Gly	Gly	Met	Ala	Ile
		740					745						750		
Gln	Leu	Ser	Gly	Asn	Asp	Ser	Thr	Gly	Leu	Arg	Val	Glu	Gly	Gly	Ala
		755					760					765			
Leu	Gly	Thr	Ile	Asp	Ala	Asn	Thr	Thr	Ile	Asn	Leu	Asn	Ala	Val	Ser
	770					775					780				
Ser	Ile	Ala	Ala	Val	Ala	Asp	Gly	Asn	Gly	Tyr	Asp	Ile	Ser	Gly	Asn
785					790					795					800
Leu	Ile	Asn	Lys	Glu	Asp	Asn	Ala	Thr	Ser	Leu	Thr	Ala	Ser	Ala	Gln
			805					810						815	
Leu	Thr	Ser	Ser	Leu	Asp	Ser	Val	Thr	Gly	Tyr	Ile	Ala	Arg	Asn	Gly
		820						825					830		
Ala	Ser	Leu	Asp	Asn	Ala	Gly	Asp	Ile	Ile	Phe	Thr	Gly	Ser	Lys	Thr
		835				840						845			
Thr	Gly	Met	Arg	Val	Glu	Glu	Gly	Ala	Thr	Gly	Thr	Asn	Ser	Gly	Asn
	850					855						860			
Ile	Thr	Val	Glu	Asp	Gly	Gly	Ala	Gly	Leu	Ile	Ala	Ala	Ser	Gly	Gly
865					870					875					880
Lys	Asn	Thr	Val	Ile	Asn	Asn	Thr	Gly	Asn	Leu	Ile	Leu	Lys	Gly	Gly
			885					890						895	
Asp	Asn	Ala	Asn	Arg	Thr	Thr	Gly	Ile	Lys	Ala	Ser	Gly	Pro	Gly	Thr
		900					905						910		
Val	Ile	Asn	Met	Asn	Ala	Gly	Asn	Ile	Glu	Leu	Gln	Gly	Gln	Gly	Ala
		915				920						925			
Val	Gly	Val	Glu	Val	Ser	Asp	Glu	Gly	Thr	Val	Asn	Leu	Ile	Gly	Ser
	930					935						940			
Ala	Val	Pro	Gln	Phe	Ala	Asp	Glu	Ser	Thr	Gly	Ile	Thr	Asp	Gln	Ile
945					950					955					960
Ala	Phe	Arg	Ile	Lys	Gly	Ser	Gly	Ala	Gln	Ile	Asn	Thr	Ser	Ile	Ala

			965				970				975	
Pro	Gly	Thr	Leu	Leu	Asp	Ala	Thr	Gly	Lys	Asp	Ser	Ile
			980					985				990
Ile	Glu	Asp	Gly	Ala	Gln	Gln	Ala	Gly	Thr	Leu	Gln	Met
			995				1000				1005	
Gly	Thr	Gly	Ser	Ser	Gly	Ile	Trp	Val	Thr	Gly	Thr	Gly
			1010				1015				1020	
Val	Ala	Gly	Ser	Gly	Ser	Asp	Phe	Gln	Ile	Leu	Gly	Asp
			1025			1030				1035		1040
Gly	Leu	Tyr	Val	Thr	Gly	Gly	Ala	Glu	Ala	Thr	Leu	Glu
			1045					1050				1055
Ser	Val	Asn	Leu	Val	Gly	Asp	Gly	Ala	Ile	Val	Ala	Glu
			1060					1065				1070
Asn	Ala	Tyr	Gly	Leu	Asp	Gly	Ser	Val	Thr	Gly	Gln	Asn
			1075				1080				1085	
Val	Leu	Thr	Asn	Glu	Ala	Asp	Ile	Thr	Thr	Ala	Leu	Ser
			1090				1095				1100	
Gly	Phe	Ile	Thr	Arg	Asn	Gln	Gly	Leu	Leu	Val	Asn	Asn
			1105				1110				1115	
Asp	Phe	Thr	Ala	Gly	Thr	Asp	Asn	Ile	Gly	Ile	Leu	Val
			1125						1130			1135
Arg	Phe	Glu	Asn	Ser	Gly	Asn	Ser	Ile	Ala	Val	Asn	Gly
			1140					1145				1150
Tyr	Ile	Lys	Gly	Ala	Asn	Ser	Gln	Val	Asn	Asn	Thr	Thr
			1155				1160					1165
Ile	Ile	Ala	Val	Asp	Gly	Glu	Ala	Ala	Ile	Lys	Leu	Gly
			1170				1175				1180	
Ser	Leu	Asp	Leu	Ala	Gly	Asp	Gly	Phe	Asp	Gly	Ser	Ala
			1185			1190				1195		1200
Gly	Arg	Gly	Ser	Ala	His	Gly	Ile	Leu	Leu	Asp	Thr	Gly
			1205					1210				1215
Leu	Lys	Leu	Asn	Gly	Ala	Val	Ile	Lys	Val	Ser	Gly	Leu
			1220					1225				1230
Gly	His	Gly	Ile	Glu	Asn	Arg	Ala	Glu	Ile	Glu	Gly	Ile
			1235				1240					1245
Asn	Gly	Ala	Arg	Ile	Asn	Val	Ser	Gly	Gly	Gly	Ile	Gly
			1250			1255					1260	
Ala	Ala	Pro	Leu	Ala	Lys	Asn	Gln	Gly	Val	Ile	Thr	Val
			1265			1270				1275		1280
Ala	Thr	Gly	Ile	Ala	Phe	Gln	Lys	Ala	Asp	Gly	Ser	Ala
			1285					1290				1295
Leu	Phe	Asp	Ile	Ser	Asp	Ser	Ser	Glu	Leu	Tyr	Phe	Asp
			1300					1305				1310
Gly	Thr	Gly	Ile	Leu	Val	Asn	Thr	Thr	Ala	Asp	Ala	Val
			1315				1320					1325
Asn	Ala	Asn	Ile	Trp	Val	Tyr	Gly	Glu	Asp	Gly	Gly	Ser
			1330				1335				1340	
Val	Lys	Asp	Ser	Ala	Ser	Glu	Val	Val	Gln	Ser	Gly	Glu
			1345			1350				1355		1360
Ala	Ser	Leu	Ile	Asn	Asp	Ala	Ile	Ile	Ala	Ser	Arg	Thr
			1365					1370				1375
Ile	Asn	Glu	Gly	Thr	Ile	Phe	Ala	Tyr	Leu	Gly	Thr	Ala
			1380					1385				1390
Ser	Asp	Asp	Val	Asp	Ser	Thr	Leu	Lys	Asn	His	Gly	Asn
			1395				1400				1405	
Lys	Val	Lys	Leu	Asn	Gly	Gly	Asn	Asn	Thr	Leu	Ile	Asn
			1410				1415				1420	
Val	Gly	Ala	Leu	Thr	Ala	Gly	Asp	Gly	Asn	Asn	Thr	Leu
			1425			1430			1435			1440
Asp	Gly	Ser	Tyr	Leu	Gln	Asp	Ala	Thr	Leu	Gly	Asn	Gly
			1445					1450				1455

Ile Ile Phe Ser Gly Phe Ser Met Ala Gly Glu Ile Val Ala Gly Thr
 1460 1465 1470
 Gly Glu Asn Thr Phe Ile Ile Lys Asp Ser Asp Gly Leu Arg Phe Asp
 1475 1480 1485
 Leu Leu Asp Gly Gly Met Gly Asp Ser Asp Lys Leu Ile Phe Asp His
 1490 1495 1500
 Ala Gln Tyr Phe Thr Leu Asp Ser Ala Gly Lys Ile Lys Asn Ile Glu
 1505 1510 1515 1520
 Ser Val Arg Leu Asp Asn Asp Ser Asp Val Thr Ile Arg Glu Ala Leu
 1525 1530 1535
 Leu Leu Thr Asp Asn Gly Ala Gly Pro Gly Ser Val Asp Ile His Asp
 1540 1545 1550
 Asp Lys Ser Glu Leu Ser Val Arg Pro Ser Ala Pro Gly Gly Phe Thr
 1555 1560 1565
 Phe Asp Pro Arg Leu Thr Gly Glu Gly Leu Leu Ser Val Glu Leu Asp
 1570 1575 1580
 Ala Ala Glu Ser Glu Phe Ser Phe Ser Gln Asn Val Gly Asn Ala Phe
 1585 1590 1595 1600
 Ser Gly Thr Leu Ala Leu Gly Lys Ser Asn Phe Val Leu Asp Gly Ile
 1605 1610 1615
 Asn Thr Glu Ser Ile Thr Asn Ala Met Leu Ile Ser Glu Thr Asp Asn
 1620 1625 1630
 Thr Thr Ile Val Gly Asp Gly Thr Gln His Ile Gly Gly Leu Gly Ile
 1635 1640 1645
 Asp Gly Gly Lys Leu Ile Phe Gly Thr Val Thr Pro Gly Asp Thr Val
 1650 1655 1660
 Ala Ser Asn Ser Ile Val Thr Ser Glu Asp Gly Leu Leu Asp Ile Ser
 1665 1670 1675 1680
 Gly Lys Gly Thr Val Gln Val Thr Leu Pro Gly Glu Val Val Asn Val
 1685 1690 1695
 Arg Pro Val Pro Asp Thr Gln Lys Asn Ile Leu Glu Gln Asp Asp Ala
 1700 1705 1710
 Glu Thr Leu Val Thr Leu Val Glu Ala Arg Gly Ala Val Lys Gly Thr
 1715 1720 1725
 Gly Ala Glu Leu Leu Leu Thr Asp Glu Asn Gly Gly Val Ile Ser Asp
 1730 1735 1740
 Ser Gln Ser Phe Asp Ile Thr Gln Asp Gly Thr Pro Val Ala Arg Gly
 1745 1750 1755 1760
 Thr Tyr Asp Tyr Lys Leu Met Ser Ser Lys Asp Gly Ile Ser Gly Asp
 1765 1770 1775
 Gly Leu Tyr Ile Gly Tyr Gly Leu Lys Ser Ile Glu Leu Gln Gly Ile
 1780 1785 1790
 Ala Gly Asn Ala Leu Ile Leu Thr Pro Lys Asp Gly Ala Arg Gly Gln
 1795 1800 1805
 Glu Ser Asp Leu Asn Ala Gln Leu Thr Gly Thr Gly Asp Leu Ala Ile
 1810 1815 1820
 Asp Ala Gly Ser Asn Thr Val Thr Leu Ser Asn Gly Ser Asn Gly Tyr
 1825 1830 1835 1840
 Thr Gly Ser Thr Arg Val Leu Ser Gly Thr Leu Lys Met Ala Asn Asp
 1845 1850 1855
 Asn Val Leu Gly Gln Thr Ala Asp Leu Ala Ile Asn Asn Gly Ala Ala
 1860 1865 1870
 Phe Ile Thr Asp Gly Phe Ser Gln His Val Gly Ala Ile Gln Thr Glu
 1875 1880 1885
 Ala Gly Ala Gly Ile Gln Leu Asp Ala Gly Ser Glu Leu Thr Ile Asp
 1890 1895 1900
 Ser Thr Leu Arg Ala Ser Gly Glu Ala Ala Gly Gly Val Ile Glu Asp
 1905 1910 1915 1920
 Ser Ala Leu Tyr Gly Glu Gly Arg Leu Val Val Ser Asp Ser Ser Leu
 1925 1930 1935
 Glu Val Lys Gly Gln Asn Ser Lys Phe Thr Gly Asp Val Thr Leu Glu

1940					1945					1950				
Ser Gly	Ser Val	Ala Glu	Leu Glu	Asn Ala	Gln Gly	Leu Gly	Ser Leu							
1955				1960		1965								
Gly Thr	Val Leu	Leu Ser	Gly Asn	Asp Asp	Thr Leu	Lys Met	Asp Ile							
1970			1975		1980									
Val Lys	Gly Ser	Asn Ser	Ser Thr	Ser Leu	Thr Lys	Ser Leu	Ala Gly							
1985		1990		1995			2000							
Lys Gly	Thr Val	Asp Ile	Leu Asn	Asn Thr	Asp Leu	Thr Leu	Ser Gly							
		2005		2010			2015							
Asp Asn	Ser Asn	Phe Ser	Gly Thr	Phe Asp	Ile Gly	Ser Glu	Ala Ala							
	2020			2025		2030								
Leu His	Ala Ser	Asp Ala	Lys His	Leu Gly	Gln Ser	Val Leu	Gly Asn							
	2035		2040			2045								
Glu Gly	Ser Leu	Tyr Leu	Thr Ala	Asn Asn	Asp Trp	Glu Leu	Thr Asn							
2050			2055		2060									
Glu Ile	Asn Gly	Ala Gly	Ser Leu	Thr Lys	Gln Gly	Ser Gly	Asn Leu							
2065		2070			2075		2080							
Ile Ile	Asn Arg	Glu Leu	Ser Tyr	Thr Gly	Ala Thr	Arg Val	Glu Ser							
	2085			2090			2095							
Gly Thr	Met Val	Ile Gly	Asp Asn	Ser Lys	Asp Ala	Ala Gly	Val Leu							
	2100			2105		2110								
Ser Gly	Thr Ser	Val Val	Thr Val	Asn Ala	Gly Ala	Met Leu	Ala Gly							
	2115		2120			2125								
Thr Gly	Thr Ile	Ala Gly	Asn Val	Glu Asn	Lys Gly	Thr Ile	Ala Ala							
2130			2135		2140									
Leu Asn	Ser Leu	Ser Gly	Tyr Ser	Asp Ala	Gly Thr	Gly Asn	Phe Thr							
2145		2150			2155		2160							
Val Gly	Ala Leu	Asn Asn	Thr Gly	Thr Leu	Leu Leu	Ala Gly	Ser Glu							
	2165			2170			2175							
Thr Gly	Asn Thr	Leu Thr	Val Asn	Gly Asp	Tyr His	Gly Glu	Gly Lys							
	2180			2185			2190							
Leu Val	Leu Asn	Thr Val	Leu Gly	Gly Asp	Asp Ser	Leu Thr	Asp Lys							
	2195		2200			2205								
Leu Ile	Val Lys	Gly Asn	Ala Ser	Gly Lys	Thr Asp	Val Tyr	Val Thr							
2210			2215		2220									
Asn Val	Gly Gly	Ser Gly	Ala Gln	Thr Gln	Asn Gly	Ile Glu	Val Val							
2225		2230			2235		2240							
Gln Val	Asp Gly	Gln Ser	Ala Asp	Asp Ser	Phe Arg	Leu Ala	Lys Arg							
	2245			2250			2255							
Ala Val	Gly Gly	Ala Tyr	Glu Tyr	Tyr Leu	His Lys	Gly Asp	Ile Asn							
	2260			2265			2270							
Gly Ala	Gly Gly	Asp Trp	Tyr Leu	Arg Ser	Glu Leu	Ser Pro	Ala Pro							
	2275			2280		2285								
Glu Pro	Asp Thr	Thr Pro	Gly Pro	Asp Thr	Thr Pro	Glu Pro	Glu Pro							
2290			2295		2300									
Asn Pro	Thr Pro	Glu Pro	Ala Pro	Ala Pro	Thr Pro	Ala Pro	Glu Pro							
2305		2310			2315		2320							
Asp Gln	His Gly	Asp Lys	Val Tyr	Arg Pro	Glu Ala	Gly Ser	Tyr Ile							
	2325			2330			2335							
Ala Gly	Ile Ala	Ala Ser	Asn Thr	Leu Phe	Asn Thr	Arg Leu	His Asp							
	2340			2345			2350							
Arg Ala	Gly Glu	Thr Tyr	Tyr Thr	Asp Val	Leu Thr	Gly Glu	Gln Ala							
	2355			2360		2365								
Val Thr	Ser Met	Trp Met	Arg His	Val Gly	Gly His	Asn Val	Trp Lys							
2370			2375		2380									
Asp Gly	Ser Ser	Gln Leu	Asn Thr	Gln Ser	Asn Arg	Tyr Val	Leu Gln							
2385		2390			2395		2400							
Leu Gly	Gly Asp	Ile Ala	Gln Trp	Thr Asp	Gly Lys	Asp Arg	Leu His							
	2405			2410			2415							
Leu Gly	Val Met	Gly Gly	Tyr Gly	Asn Glu	Lys Ser	Ser Thr	Thr Ser							
	2420			2425			2430							

Ser Leu Ser His Tyr Lys Ser Arg Gly Thr Val Asn Gly Tyr Ser Leu
 2435 2440 2445
 Gly Met Tyr Ala Thr Trp Gln Gln Asn Glu Gly Glu Glu Ser Gly Ala
 2450 2455 2460
 Tyr Val Asp Thr Trp Ala Gln Tyr Ser Trp Phe Asp Asn Thr Val Lys
 2465 2470 2475 2480
 Gly Glu Gln Leu Ala Gln Glu Thr Trp Lys Ser Ser Gly Ile Thr Ala
 2485 2490 2495
 Ser Ala Glu Ala Gly Tyr Thr Phe Asn Ala Gly Lys Phe Lys Gly Ser
 2500 2505 2510
 His Gly Ser Glu Tyr Asn Trp Tyr Ile Gln Pro Gln Ala Gln Ile Thr
 2515 2520 2525
 Trp Met Asn Val Arg Ser Glu Asp His Arg Glu His Asn Gly Thr Lys
 2530 2535 2540
 Ile Ser Ala Gln Gly Glu Gly Asn Val Gln Ser Arg Val Gly Leu Arg
 2545 2550 2555 2560
 Thr Tyr Leu Lys Gly Lys Ser His Leu Asp Ser Glu Lys Glu Arg Thr
 2565 2570 2575
 Phe Glu Pro Phe Ile Glu Ala Asn Trp Ile His Asn Thr Arg Ser Trp
 2580 2585 2590
 Gly Val Arg Met Asp Asp Ala Leu Val Thr Gln Asp Gly Ala Arg Asp
 2595 2600 2605
 Val Gly Glu Ile Lys Thr Gly Val Glu Gly Gln Ile Ser Lys Asn Leu
 2610 2615 2620
 Asn Val Trp Gly Asn Val Gly Val Gln Ile Gly Asp Lys Gly Tyr Asn
 2625 2630 2635 2640
 Asp Thr Gln Ala Met Leu Gly Ile Lys Tyr Ser Phe Lys
 2645 2650

<210> 6340

<211> 416

<212> PRT

<213> Enterobacter cloacae

<400> 6340

Arg Lys Pro Asp Arg Asp Arg Gly Glu Lys Ser Arg Arg His Arg Gly
 1 5 10 15
 Ala Asp Gly Gly Thr Arg Met Ser Val Ile Ile Val Gly Gly Gly
 20 25 30
 Met Thr Gly Ala Thr Leu Ala Leu Ala Ile Ser Gln Leu Thr Lys Gly
 35 40 45
 Gln Leu Pro Val His Leu Val Glu Ala Val Ala Pro Gln Ala Ala Asp
 50 55 60
 His Pro Gly Phe Asp Ala Arg Ala Ile Ala Leu Ala Gln Gly Thr Cys
 65 70 75 80
 Gln Gln Leu Ala Arg Ile Gly Ile Trp Gln Ala Ile Ala Asp Cys Ala
 85 90 95
 Thr Ala Ile Gly Thr Val His Val Ser Asp Arg Gly His Ala Gly Phe
 100 105 110
 Val Thr Leu Asp Ala His Asp Tyr Leu Ile Glu Ala Leu Gly Gln Val
 115 120 125
 Val Glu Leu His Asp Val Gly Leu Arg Leu Phe Arg Leu Leu Gln Asp
 130 135 140
 Ala Pro Gly Val Thr Leu His Cys Pro Ala Arg Val Ala Ser Phe Ser
 145 150 155 160
 Arg Arg Asp Glu Ala Val Ser Val Thr Leu Asp Asn Gly Thr Thr Leu
 165 170 175
 Glu Gly Gln Leu Leu Val Ala Ala Asp Gly Ser Arg Ser Ala Ile Ala
 180 185 190
 Thr Gln Cys Gly Val Glu Trp Arg Ser Glu Pro Tyr Gly Gln Ala Ala
 195 200 205

Val Ile Ala Asn Val Ser Thr Ala Gly Ala His Asn Gly Arg Ala Phe
 210 215 220
 Glu Arg Phe Thr Glu His Gly Pro Leu Ala Met Leu Pro Met Ser Asn
 225 230 235 240
 Gly Arg Cys Ser Leu Val Trp Cys His Ala Gln Asp Arg Ala Asp Glu
 245 250 255
 Val Leu Ser Trp Ser Asp Glu Arg Phe Cys Ser Glu Leu Gln Lys Ala
 260 265 270
 Phe Gly Trp Arg Leu Gly Arg Ile Thr His Ala Gly Lys Arg Val Ala
 275 280 285
 Tyr Pro Leu Ala Leu Thr Thr Ala Ser Gln Thr Val Ser His Arg Val
 290 295 300
 Ala Leu Val Gly Asn Ala Ala Gln Thr Leu His Pro Ile Ala Gly Gln
 305 310 315 320
 Gly Phe Asn Leu Gly Leu Arg Asp Val Met Ser Leu Ala Glu Leu Leu
 325 330 335
 Ala Arg Thr Trp Ser Glu Gln Gln Asp Cys Gly Ala Tyr Ser Val Leu
 340 345 350
 Ser His Tyr Gln Lys Arg Arg Gln Ala Asp Lys Ala Ala Thr Ile Gly
 355 360 365
 Val Thr Asp Gly Leu Val His Leu Phe Ala Asn Arg Trp Ala Pro Leu
 370 375 380
 Val Ala Gly Arg Asn Leu Gly Leu Met Ala Met Glu Leu Phe Ile Pro
 385 390 395 400
 Ala Arg Asp Val Leu Ala Gln Arg Thr Leu Gly Trp Val Ala Arg
 405 410 415

<210> 6341

<211> 405

<212> PRT

<213> Enterobacter cloacae

<400> 6341

Gly Val Leu Thr Val Gln Asn Val Asp Val Ala Ile Val Gly Gly Gly
 1 5 10 15
 Met Val Gly Leu Ala Leu Ala Cys Gly Leu Gln Gly Ser Gly Leu Arg
 20 25 30
 Val Ala Val Leu Glu Gln Lys Ala Pro Gln Pro Val Ala Gln Asp Ala
 35 40 45
 Pro Pro Glu Leu Arg Val Ser Ala Ile Asn Ala Ala Ser Glu Lys Leu
 50 55 60
 Leu Thr His Leu Gly Val Trp Ser Glu Ile Val Ala Leu Arg Ala Ser
 65 70 75 80
 Cys Tyr His Gly Met Glu Val Trp Asp Lys Asp Ser Phe Gly Arg Ile
 85 90 95
 Ala Phe Asp Asp Glu Ser Met Gly Tyr Ser His Leu Gly His Ile Val
 100 105 110
 Glu Asn Ala Val Ile His His Val Leu Trp Gln Lys Ala Gln Gln Cys
 115 120 125
 Ser Asp Val Thr Leu Ile Ala Pro Ala Lys Leu Gln Gln Val Ala Trp
 130 135 140
 Gly Glu Asn Asp Ala Phe Ile Thr Leu Glu Ser Gly Asp Met Leu Thr
 145 150 155 160
 Ala Arg Leu Val Val Gly Ala Asp Gly Ala Asn Ser Trp Leu Arg Asn
 165 170 175
 Lys Ala Asp Ile Pro Leu Thr Phe Trp Asp Tyr Arg His His Ala Leu
 180 185 190
 Val Ala Thr Ile Arg Thr Glu Glu Pro His Gly Gly Val Ala Arg Gln
 195 200 205
 Ile Phe His Asn Asp Gly Ile Leu Ala Phe Leu Pro Leu Ala Asp Pro
 210 215 220

His Leu Cys Ser Ile Val Trp Ser Leu Glu Pro Glu Lys Ala Gln Gln
 225 230 235 240
 Met Gln Glu Thr Thr Pro Asp Ala Phe Ser Gln Ala Leu Cys Val Ala
 245 250 255
 Phe Asp Asn Arg Leu Gly Leu Cys Gly Leu Glu Ser Glu Arg Gln Thr
 260 265 270
 Phe Pro Leu Thr Gly Arg Tyr Ala Arg Gln Phe Ala Ala His Arg Leu
 275 280 285
 Ala Leu Val Gly Asp Ala Ala His Thr Ile His Pro Leu Ala Gly Gln
 290 295 300
 Gly Val Asn Leu Gly Phe Met Asp Ala Ala Glu Leu Val Glu Glu Leu
 305 310 315 320
 Arg Arg Leu His Arg Glu Gly Lys Asp Ile Gly Gln His Leu Tyr Leu
 325 330 335
 Arg Arg Tyr Glu Arg Ser Arg Lys His Ser Ala Ala Met Met Leu Ala
 340 345 350
 Gly Met Gln Gly Phe Arg Glu Leu Phe Ala Gly Ala Asn Pro Ala Lys
 355 360 365
 Lys Leu Leu Arg Asp Ile Gly Leu Lys Leu Ala Asp Thr Leu Pro Gly
 370 375 380
 Val Lys Pro Gln Leu Leu Arg Gln Ala Met Gly Leu Asn Asp Leu Pro
 385 390 395 400
 Asp Trp Leu Arg
 405

<210> 6342

<211> 142

<212> PRT

<213> Enterobacter cloacae

<400> 6342

Ala Gly Arg Leu Thr Ile Phe Ile Arg Arg Thr Ser Met Ser Asn Val
 1 5 10 15
 Pro Ala Glu Leu Lys Tyr Ser Lys Glu His Glu Trp Leu Arg Lys Glu
 20 25 30
 Ala Asp Gly Thr Tyr Thr Val Gly Ile Thr Glu His Ala Gln Glu Leu
 35 40 45
 Leu Gly Asp Met Val Phe Val Asp Leu Pro Glu Val Gly Ala Thr Val
 50 55 60
 Ser Ala Gly Asp Asp Cys Ala Val Ala Glu Ser Val Lys Ala Ala Ser
 65 70 75 80
 Asp Ile Tyr Ala Pro Val Ser Gly Glu Ile Val Ala Val Asn Asp Ala
 85 90 95
 Leu Ser Asp Ser Pro Glu Leu Val Asn Ser Glu Pro Tyr Glu Gly Gly
 100 105 110
 Trp Ile Phe Lys Ile Lys Ala Ser Asp Glu Ala Gln Val Ala Ala Leu
 115 120 125
 Leu Asp Ala Thr Ala Tyr Glu Ala Leu Leu Glu Asp Glu
 130 135 140

<210> 6343

<211> 402

<212> PRT

<213> Enterobacter cloacae

<400> 6343

Arg Pro Thr Leu Phe Ser Ala Ala Gly Glu His Trp Tyr Phe Thr Gly
 1 5 10 15
 Phe Asn Glu Pro Glu Ala Val Leu Val Leu Ile Lys Ser Asn Asp Thr
 20 25 30
 His Asn His Ser Val Ile Phe Asn Arg Val Arg Asp Leu Thr Ala Glu

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      35      40      45
Ile Trp Phe Gly Arg Arg Leu Gly Gln Glu Ala Ala Pro Glu Lys Leu
 50      55      60
Gly Val Asp Arg Ala Leu Ala Tyr Ser Glu Ile Asn Gln Gln Leu Tyr
65      70      75      80
Gln Leu Leu Asn Gly Leu Asp Val Leu Tyr His Ala Gln Gly Glu Tyr
      85      90      95
Ala Tyr Ala Asp Asp Ile Val Phe Thr Ala Leu Asp Lys Leu Arg Lys
      100      105      110
Gly Ser Arg Gln Asn Leu Ser Ala Pro Ala Thr Leu Thr Asp Trp Arg
      115      120      125
Pro Met Val His Glu Met Arg Leu Phe Lys Ser Glu Glu Glu Leu Asn
      130      135      140
Val Met Arg Arg Ala Gly Glu Ile Ser Ala Leu Ala His Thr Arg Ala
145      150      155      160
Met Glu Lys Cys Arg Pro Gly Met Phe Glu Tyr Gln Leu Glu Gly Glu
      165      170      175
Ile His His Glu Phe Asn Arg His Gly Ala Arg Phe Pro Ser Tyr Asn
      180      185      190
Thr Ile Val Gly Gly Gly Glu Asn Gly Cys Ile Leu His Tyr Thr Glu
      195      200      205
Asn Glu Ser Glu Leu Arg Asp Gly Asp Leu Val Leu Ile Asp Ala Gly
210      215      220
Cys Glu Tyr Gln Gly Tyr Ala Gly Asp Ile Thr Arg Thr Phe Pro Val
225      230      235      240
Asn Gly Lys Phe Thr Thr Ala Gln Arg Glu Ile Tyr Asp Ile Val Leu
      245      250      255
Glu Ser Leu Glu Thr Ala Leu Thr Leu Phe Arg Pro Gly Thr Ser Ile
      260      265      270
Gln Glu Val Thr Gly Glu Val Val Arg Ile Met Ile Thr Gly Leu Val
275      280      285
Lys Leu Gly Ile Leu Lys Gly Asp Val Asp Thr Leu Ile Thr Glu Asn
290      295      300
Ala His Arg Pro Tyr Phe Met His Gly Leu Ser His Trp Leu Gly Leu
305      310      315      320
Asp Val His Asp Val Gly Ala Tyr Gly Pro Glu Arg Ser Arg Val Leu
      325      330      335
Glu Pro Gly Met Val Leu Thr Val Glu Pro Gly Leu Tyr Ile Ala Pro
      340      345      350
Asp Ala Asp Val Pro Glu Arg Tyr Arg Gly Ile Gly Ile Arg Ile Glu
355      360      365
Asp Asp Ile Val Ile Thr Glu Thr Gly Asn Glu Asn Leu Thr Ala Thr
370      375      380
Val Val Lys Lys Ala Asp Asp Ile Glu Ala Leu Met Ala Ala Ala Arg
385      390      395      400
Val

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<210> 6344

<211> 390

<212> PRT

<213> Enterobacter cloacae

<400> 6344

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Lys Arg Thr Phe Ala Ser Ala Pro Asp Arg Glu Ala Asp Thr Gly Phe
1      5      10      15
His Gly Glu Phe Phe Asn Glu Glu Lys Met Ala Gln Gln Thr Pro Leu
      20      25      30
Tyr Glu Gln His Val Leu Cys Gly Ala Arg Met Val Asp Phe His Gly
      35      40      45
Trp Met Met Pro Leu His Tyr Gly Ser Gln Ile Asp Glu His His Ala

```


50		55		60
Val Arg Thr Asp Ala Gly Met Phe Asp Val Ser His Met Thr Ile Val				
65		70		75
Asp Leu Arg Gly Ser Arg Thr Arg Glu Phe Leu Arg Tyr Leu Leu Ala				80
	85		90	95
Asn Asp Val Ala Lys Leu Lys Thr Pro Gly Lys Ala Leu Tyr Thr Gly				
	100		105	110
Met Leu Asn Ala Ser Gly Gly Val Ile Asp Asp Leu Ile Val Tyr Tyr				
	115		120	125
Phe Thr Glu Asp Phe Phe Arg Leu Val Val Asn Ser Ala Thr Arg Glu				
	130		135	140
Lys Asp Leu Ser Trp Ile Ser Gln His Ala Glu Pro Tyr Ala Ile Asp				
	145		150	155
Ile Thr Val Arg Asp Asp Leu Ser Leu Ile Ala Val Gln Gly Pro Asn				
	165		170	175
Ala Gln Ala Lys Ala Ala Ser Leu Phe Ser Asp Glu Gln Arg Lys Ala				
	180		185	190
Thr Glu Gly Met Lys Pro Phe Phe Gly Val Gln Ala Gly Asp Leu Phe				
	195		200	205
Ile Ala Thr Thr Gly Tyr Thr Gly Glu Ala Gly Tyr Glu Ile Ala Met				
	210		215	220
Pro Asn Glu Lys Ala Ala Asp Phe Trp Arg Ala Leu Val Glu Ala Gly				
	225		230	235
Val Lys Pro Ala Gly Leu Gly Ala Arg Asp Thr Leu Arg Leu Glu Ala				
	245		250	255
Gly Met Asn Leu Tyr Gly Gln Glu Met Asp Glu Gly Val Ser Pro Leu				
	260		265	270
Ala Ala Asn Met Gly Trp Thr Ile Ala Trp Glu Pro Ala Asp Arg Asp				
	275		280	285
Phe Ile Gly Arg Glu Ala Leu Glu Met Gln Arg Glu Lys Gly Thr Glu				
	290		295	300
Gln Leu Val Gly Leu Val Met Lys Glu Lys Gly Val Leu Arg Gly Glu				
	305		310	315
Leu Pro Val Arg Phe Thr Asp Ala Asp Gly Asn His Arg Glu Gly Val				
	325		330	335
Ile Thr Ser Gly Thr Phe Ser Pro Thr Leu Gly Tyr Ser Ile Ala Leu				
	340		345	350
Ala Arg Val Pro Ala Gly Ile Gly Glu Thr Ala Val Val Gln Ile Arg				
	355		360	365
Asn Arg Glu Met Pro Val Asn Val Thr Lys Pro Ile Phe Val Arg Ala				
	370		375	380
Gly Lys Pro Val Ala				
385		390		

<210> 6345

<211> 345

<212> PRT

<213> Enterobacter cloacae

<400> 6345

Arg Val Val Asn Met Ile Thr Ile Arg Asp Val Ala Arg Gln Ala Gly				
1	5	10	15	
Val Ser Val Ala Thr Val Ser Arg Val Leu Asn Asn Ser Ala Leu Val				
	20	25	30	
Ser Pro Glu Thr Arg Glu Thr Val Met Lys Ala Val Thr Gln Leu Gly				
	35	40	45	
Tyr Arg Pro Asn Ala Asn Ala Gln Ala Leu Ala Thr Gln Val Ser Asp				
	50	55	60	
Thr Ile Gly Val Val Val Met Asp Val Ser Asp Ala Phe Phe Gly Ala				
	65	70	75	80
Leu Val Lys Ala Val Asp Val Val Ala Gln Gln His Gln Lys Tyr Val				

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<210> 6346
<211> 393
<212> PRT
<213> Enterobacter cloacae
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Ile	Tyr	Phe	Ser	Leu	Thr	Ile	Gly	Ala	Ile	Met	Ala	Leu	Arg	Ile	Ala
1				5					10					15	
Leu	Ser	Gly	Phe	Val	Val	Leu	Val	Val	Ala	Met	Gly	Ile	Gly	Arg	Phe
			20					25					30		
Ala	Phe	Thr	Pro	Gln	Val	Pro	Leu	Met	Ile	Ala	Ala	Gly	Gln	Leu	Thr
		35					40					45			
Leu	Thr	Ser	Ala	Gly	Leu	Val	Ala	Ala	Met	Asn	Tyr	Leu	Gly	Tyr	Leu
	50					55				60					
Val	Gly	Ala	Trp	Asp	Ala	Met	Arg	Ala	His	Arg	Phe	Val	Glu	Thr	Arg
65				70					75					80	
Leu	Trp	Leu	Gly	Ile	Thr	Gly	Ala	Val	Ala	Leu	Thr	Leu	Leu	Ser	Ala
			85					90						95	
Ala	Ala	Glu	Asn	Ala	Val	Val	His	Gly	Leu	Leu	Arg	Phe	Val	Ile	Gly
			100					105					110		
Cys	Met	Ser	Gly	Trp	Ser	Met	Val	Leu	Ile	Ala	Ala	Trp	Thr	Asn	Glu
		115					120					125			
Arg	Leu	Gly	Gln	Leu	Gly	Lys	Pro	Gly	Leu	Ser	Ala	Ala	Val	Phe	Ala
	130					135					140				
Gly	Pro	Gly	Ala	Gly	Ile	Ala	Leu	Ser	Gly	Leu	Leu	Ala	Val	Tyr	Ile
145				150					155					160	
Gln	Ala	Lys	Ser	Leu	Ser	Ala	Gly	Ala	Ala	Trp	Gln	Ile	Tyr	Gly	Val

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                165                170                175
Leu Ala Leu Val Leu Ile Val Leu Val Ala Arg Tyr Leu Pro Arg Ala
                180                185                190
Gly Gln Leu His Arg Pro Asp Thr Ala Pro Glu Pro Leu Leu Thr
                195                200                205
Ala Asp Leu Arg Arg Leu Val Trp Ser Tyr Ser Leu Ala Gly Phe Gly
                210                215                220
Tyr Ile Leu Pro Ala Thr Phe Leu Ser Gln Met Ala Ala Val Arg Phe
225                230                235                240
Pro Gly Ser Leu Phe Ala Gln Phe Val Trp Pro Ile Phe Gly Ala Ala
                245                250                255
Ser Val Val Gly Ile Ala Leu Ser Ile Ala Leu Arg His Thr Ser Ser
                260                265                270
Ala Asn Arg Arg Leu Ala Ile Val Leu Trp Leu Gln Gly Ile Gly Val
                275                280                285
Leu Ala Ala Trp Leu Leu Pro Gly Ile Gly Gly Leu Leu Thr Gly Gly
                290                295                300
Leu Leu Val Gly Gly Gly Phe Leu Cys Ala Val Gln Leu Ser Leu Leu
305                310                315                320
Tyr Gly Arg Glu Leu Ala Pro Asp His Thr Arg Tyr Met Ala Gly Leu
                325                330                335
Leu Thr Thr Gly Tyr Ala Ile Gly Gln Leu Val Gly Pro Val Thr Ser
                340                345                350
Ala Leu Ser Thr Trp Leu Thr His Arg Leu Glu Pro Ala Leu Gly Leu
                355                360                365
Ala Gly Ile Ala Leu Phe Val Gly Gly Ala Leu Val Trp Asn Arg Gln
                370                375                380
Ala Glu Arg Gln Gln Gln Leu Gln
385                390

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<210> 6347

<211> 253

<212> PRT

<213> Enterobacter cloacae

<400> 6347

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Ile Leu Asp Tyr Val Arg Arg Leu Thr His Asn Glu Arg Thr Leu Leu
1                5                10                15
Pro Gln Arg Gly Gln Lys Tar Pro His Leu Gln Glu Lys Arg Met Ser
                20                25                30
Ser Leu Ser Lys Glu Ala Ala Leu Val His Glu Ala Leu Val Ala Arg
                35                40                45
Gly Leu Glu Thr Pro Leu Arg Pro Pro Val Gln Glu Leu Asp Asn Val
                50                55                60
Thr Arg Lys Arg Leu Ile Ala Gly His Met Thr Glu Ile Met Gln Leu
65                70                75                80
Leu Asn Leu Asp Leu Ser Asp Asp Ser Leu Met Glu Thr Pro His Arg
                85                90                95
Ile Ala Lys Met Tyr Val Asp Glu Ile Phe Ser Gly Leu Asp Tyr Ala
                100                105                110
Asn Phe Pro Lys Ile Thr Val Ile Glu Asn Lys Met Lys Val Asp Glu
                115                120                125
Met Val Thr Val Arg Asp Ile Thr Leu Thr Ser Thr Cys Glu His His
                130                135                140
Phe Val Thr Ile Asp Gly Lys Ala Thr Val Ala Tyr Ile Pro Lys Asp
145                150                155                160
Thr Val Ile Gly Leu Ser Lys Ile Asn Arg Ile Val Gln Phe Phe Ala
                165                170                175
Gln Arg Pro Gln Val Gln Glu Arg Leu Thr Gln Gln Ile Leu Thr Ala
                180                185                190
Leu Gln Thr Leu Leu Gly Thr Asn Asn Val Ala Val Ser Ile Asp Ala

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<210> 6348
<211> 392
<212> PRT
<213> Enterobacter cloacae
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Ser 1	Asp	Arg	Ala	Gly 5	Thr	Met	Glu	Arg	Asn 10	Val	Thr	Leu	Asp	Phe 15	Val
Arg	Gly	Val	Ala 20	Ile	Leu	Gly	Ile	Leu 25	Leu	Leu	Asn	Ile 30	Ser	Ala	Phe
Gly	Leu	Pro 35	Lys	Ala	Ala	Tyr	Leu 40	Asn	Pro	Ala	Trp	Tyr 45	Gly	Asp	Ile
Thr	Arg 50	Ser	Asp	Ala	Trp	Thr 55	Trp	Ala	Ile	Leu 60	Asp	Leu	Phe	Ala	Gln
Val 65	Lys	Phe	Leu	Thr 70	Leu	Phe	Ala	Leu	Leu 75	Phe	Gly	Ala	Gly	Leu 80	Gln
Leu	Leu	Leu	Lys 85	Arg	Gly	Thr	Arg	Trp 90	Ile	Gln	Ser	Arg	Leu 95	Thr	Leu
Leu	Val	Ile 100	Leu	Gly	Phe	Ile	His	Gly 105	Leu	Leu	Phe	Trp	Asp	Gly	Asp
Ile	Leu	Leu 115	Ala	Tyr	Gly	Leu	Val 120	Gly	Leu	Ile	Cys	Trp	Arg	Leu	Ile
Arg	Asp 130	Ala	Pro	Gly	Val	Lys 135	Ser	Leu	Phe	Asn	Thr 140	Gly	Val	Met	Leu
Tyr 145	Val	Met	Gly	Leu 150	Ala	Val	Leu	Leu	Leu 155	Leu	Gly	Met	Ile	Ala	Asp
Asp	Ser	Thr	Ser 165	Arg	Ser	Trp	Ile	Pro	Asp 170	Ala	Ala	Asn	Leu	Gln	Tyr
Glu	Gln	Phe 180	Trp	Lys	Leu	Lys	Gly	Gly 185	Met	Glu	Ala	Ile	Gly	Asn	Arg
Ala	Asp 195	Met	Leu	Gly	Asp	Asn	Leu	Leu 200	Ala	Leu	Gly	Ala	Gln	Tyr	Gly
Trp	Gln 210	Leu	Ala	Gly	Met	Met	Leu	Met	Gly	Ala	Ala 220	Leu	Met	Arg	Thr
Gly 225	Trp	Leu	Lys	Gly	Glu	Phe	Ser	Leu	Arg	His 235	Tyr	Arg	Arg	Thr	Gly
Ala	Gly	Leu	Val 245	Leu	Leu	Gly	Val	Ile	Ile 250	Asn	Leu	Pro	Ala	Val	Met
Met	Gln 260	Trp	His	Leu	Gln	Trp	Asp	Tyr 265	Arg	Trp	Cys	Ala	Phe	Leu	Leu
Gln	Val 275	Pro	Arg	Glu	Leu	Ser	Ala 280	Pro	Phe	Gln	Thr	Ile	Gly	Tyr	Ala
Ala	Leu 290	Ile	Tyr	Gly	Phe	Trp	Pro 295	Gln	Leu	Ser	Arg	Leu	Trp	Ile	Val
Ser 305	Ala	Val	Ala	Cys	Val	Gly	Arg	Met	Ala	Leu	Ser	Asn	Tyr	Ile	Leu
Gln	Thr	Leu	Ile 325	Cys	Thr	Thr	Leu	Phe	Tyr 330	Arg	Phe	Gly	Leu	Phe	Met
Lys	Phe	Asp	Arg 340	Leu	Thr	Leu	Leu	Ala	Phe 345	Val	Ile	Pro	Val	Trp	Ile
Val	Asn 355	Val	Val	Phe	Ser	Val	Val 360	Trp	Leu	Arg	Phe	Phe	Arg	Gln	Gly
Pro	Leu	Glu	Trp	Ala	Trp	Arg	Gln	Leu	Thr	Ala	Arg	Ala	Ser	Gly	Val

370 375 380
 Ser Leu Arg Asn Thr Ser Arg
 385 390

<210> 6349
 <211> 322
 <212> PRT
 <213> Enterobacter cloacae

<400> 6349
 Thr Leu Ser Ala Val Met Ala Ser Met Leu Phe Gly Ala Ala Ala His
 1 5 10 15
 Ala Ala Asp Thr Arg Ile Gly Val Thr Ile Tyr Lys Tyr Asp Asp Asn
 20 25 30
 Phe Met Ser Val Val Arg Lys Ala Ile Glu Lys Asp Ala Lys Ser Ala
 35 40 45
 Pro Asp Val Gln Leu Leu Met Asn Asp Ser Gln Asn Asp Gln Ser Lys
 50 55 60
 Gln Asn Asp Gln Ile Asp Val Leu Leu Ala Lys Gly Val Lys Ala Leu
 65 70 75 80
 Ala Ile Asn Leu Val Asp Pro Ala Ala Gly Thr Val Ile Glu Lys
 85 90 95
 Ala Arg Gly Gln Asn Val Pro Ile Val Phe Phe Asn Lys Glu Pro Ser
 100 105 110
 Arg Lys Ala Leu Asp Ser Tyr Asp Lys Ala Tyr Tyr Val Gly Thr Asp
 115 120 125
 Ser Lys Glu Ser Gly Ile Ile Gln Gly Asp Leu Ile Ala Lys His Trp
 130 135 140
 Ala Ala Asn Pro Asn Trp Asp Leu Asn Lys Asp Gly Gln Ile Gln Phe
 145 150 155 160
 Val Leu Leu Lys Gly Glu Pro Gly His Pro Asp Ala Glu Ala Arg Thr
 165 170 175
 Thr Tyr Val Ile Lys Glu Leu Asn Asp Lys Gly Leu Lys Thr Gln Gln
 180 185 190
 Leu Ala Leu Asp Thr Ala Met Trp Asp Thr Ala Gln Ala Lys Asp Lys
 195 200 205
 Met Asp Ala Trp Leu Ser Gly Pro Asn Ala Asn Lys Ile Glu Val Val
 210 215 220
 Ile Ala Asn Asn Asp Ala Met Ala Met Gly Ala Val Glu Ala Leu Lys
 225 230 235 240
 Ala His Asn Lys Ser Ala Ile Pro Val Phe Gly Val Asp Ala Leu Pro
 245 250 255
 Glu Ala Leu Ala Leu Val Lys Ser Gly Ala Met Ala Gly Thr Val Leu
 260 265 270
 Asn Asp Ala Asn Asn Gln Ala Lys Ala Thr Phe Asp Leu Ala Lys Asn
 275 280 285
 Leu Ala Asp Gly Lys Gly Ala Ala Asp Gly Thr Asn Trp Lys Val Asp
 290 295 300
 Asn Lys Ile Val Arg Val Pro Tyr Val Gly Val Tyr Gln Ser Asn Leu
 305 310 315 320
 Gly

<210> 6350
 <211> 293
 <212> PRT
 <213> Enterobacter cloacae

<400> 6350
 Lys Leu Cys Ile Met Arg Phe Met Asn Ser Leu Ser Tyr Lys Glu Pro
 1 5 10 15

Cys Met Glu Leu Leu Glu Glu His Arg Cys Phe Glu Gly Arg Gln Gln
 20 25 30
 Arg Trp Arg His Asp Ser Thr Thr Leu Asn Cys Ala Met Thr Phe Ser
 35 40 45
 Ile Phe Leu Pro Pro Ala Asp Asn Pro Pro Val Leu Tyr Trp Leu Ser
 50 55 60
 Gly Leu Thr Cys Asn Asp Glu Asn Phe Thr Thr Lys Ala Gly Ala Gln
 65 70 75 80
 Arg Ile Ala Ala Glu Leu Gly Ile Ala Leu Val Met Pro Asp Thr Ser
 85 90 95
 Pro Arg Gly Glu Asp Val Ala Asp Asp Ala Gly Tyr Asp Leu Gly Lys
 100 105 110
 Gly Ala Gly Phe Tyr Leu Asn Ala Thr Glu Gln Pro Trp Ala Arg His
 115 120 125
 Tyr Arg Met Tyr Asp Tyr Ile Arg Asp Glu Leu Pro Ala Leu Val His
 130 135 140
 Ser Gln Phe Ala Val Ser Glu Arg Cys Ala Ile Ser Gly His Ser Met
 145 150 155 160
 Gly Gly His Gly Ala Leu Ile Met Ala Leu Lys Asn Pro Gly Lys Tyr
 165 170 175
 Thr Ser Val Ser Ala Phe Ala Pro Ile Val Asn Pro Thr Gln Val Pro
 180 185 190
 Trp Gly Gln Lys Ala Phe Arg His Tyr Leu Gly Glu Asp Leu Glu Lys
 195 200 205
 Trp Gln Glu Trp Asp Ser Cys Ala Leu Met Leu Ala Ser Gln Ser Glu
 210 215 220
 Asp Ala Ile Pro Met Leu Val Asp Gln Gly Asp Ala Asp Gln Phe Leu
 225 230 235 240
 Ala Gly Gln Leu Gln Pro Ala Val Leu Ala Glu Ala Ala Arg Gln Lys
 245 250 255
 Asp Trp Pro Leu Thr Leu Arg Ile Gln Pro Gly Tyr Asp His Ser Tyr
 260 265 270
 Tyr Phe Met Ala Ser Phe Ile Glu Asp His Leu Arg Phe His Ala Glu
 275 280 285
 His Leu Phe Arg
 290

<210> 6351

<211> 221

<212> PRT

<213> Enterobacter cloacae

<400> 6351

Leu Val Val Val Thr His Gly Ala Gln Glu Leu Leu Ala Gly Val Leu
 1 5 10 15
 Ala Arg Phe Glu Gln Ala Ala Gln Arg Ser Gly Gly Gly Cys Ala Gly
 20 25 30
 Ser Ile Thr His Ala Ala Arg Phe His Ala Val Val His Arg Val Asp
 35 40 45
 Arg His Arg His Ile Val Ser Pro Gln Gln Gly Leu Gln Cys Gly Gln
 50 55 60
 Asp Leu Leu Arg Gln Thr Phe Leu His Leu Arg Thr Leu Gly Lys Glu
 65 70 75 80
 Leu His Asp Ala Val Asp Leu Gly Gln Ala Asp Asp Arg Ile Phe Trp
 85 90 95
 Asn Ile Gly His Arg Arg Phe Thr Ile Asp Gly His Lys Val Met Leu
 100 105 110
 Ala Gly Ala Gly Gln Arg Asp Ile Ala Tyr Arg His His Leu Ile Asp
 115 120 125
 Leu His Leu Ile Phe Asn Asp Gly Asp Phe Arg Glu Val Arg Val Ile
 130 135 140

Gln Ala Gly Glu Asn Phe Val Asp Val His Leu Arg Asp Ala Val Arg
 145 150 155 160
 Arg Leu His Gln Ala Val Val Ala Gln Ile Glu Ile Gln Gln Leu His
 165 170 175
 Asp Leu Arg His Met Ala Gly Asp Gln Thr Leu Ala Gly Asn Ile Val
 180 185 190
 Gln Leu Leu His Gly Arg Ala Gln Trp Arg Phe Lys Thr Ala Arg Asn
 195 200 205
 Gln Arg Phe Met Asp Lys Gly Cys Phe Phe Thr Glu
 210 215 220

<210> 6352

<211> 222

<212> PRT

<213> Enterobacter cloacae

<400> 6352

Ile Gln Pro Val Phe Arg Arg His His Ser Asn Thr Asn Asp Phe Asn
 1 5 10 15
 Tyr His Leu Cys Leu Gln Phe Tyr Ile Leu Leu Tyr Asn Ser Arg Leu
 20 25 30
 Phe Ser Ile Ser Lys Ser Ser Tyr Lys Thr Lys Thr Tyr Ser Ser Gln
 35 40 45
 Gly Tyr Pro Asp Gly Val Phe Phe Ile Phe Ile Arg Asn Val Gln Met
 50 55 60
 Thr Ile Pro Arg Ile Lys Leu Leu Ala Val Ala Ile Gly Ala Ala Thr
 65 70 75 80
 Cys Ser Pro Phe Val His Ala Ala Asp Gln Asp Thr Val Val Val Thr
 85 90 95
 Ala Thr Gly Phe Glu Gln Lys Ile Gln Asn Ala Pro Ala Ser Ile Ser
 100 105 110
 Val Ile Ser Lys Gln Gln Ile Glu Asp Lys Ala Tyr Arg Asp Val Thr
 115 120 125
 Asp Ala Leu Arg Asp Val Pro Gly Val Val Val Thr Gly Gly Gly Ser
 130 135 140
 Ser Ser Asp Ile Ser Ile Arg Gly Met Ala Ser Gln Tyr Thr Leu Phe
 145 150 155 160
 Leu Val Asn Gly Lys Arg Val Ser Thr Arg Ser Thr Arg Pro Asn Ser
 165 170 175
 Asp Asn Ser Gly Ile Glu Gln Gly Trp Leu Pro Pro Leu Glu Ser Ile
 180 185 190
 Glu Arg Ile Glu Val Ile Arg Gly Pro Met Ser Ser Leu Tyr Gly Ser
 195 200 205
 Asp Ala Met Gly Gly Val Met Asp Val Ile Thr Gln Asn Ser
 210 215 220

<210> 6353

<211> 204

<212> PRT

<213> Enterobacter cloacae

<220>

<221> UNSURE

<222> (6)

<220>

<221> UNSURE

<222> (7)

<220>

<221> UNSURE

<222>(8)

<220>

<221>UNSURE

<222>(9)

<220>

<221>UNSURE

<222>(10)

<220>

<221>UNSURE

<222>(14)

<220>

<221>UNSURE

<222>(21)

<220>

<221>UNSURE

<222>(22)

<220>

<221>UNSURE

<222>(23)

<220>

<221>UNSURE

<222>(26)

<220>

<221>UNSURE

<222>(27)

<220>

<221>UNSURE

<222>(33)

<220>

<221>UNSURE

<222>(40)

<400> 6353

Arg	Gly	Gly	Glu	Gly	Xaa	Xaa	Xaa	Xaa	Xaa	Leu	Phe	Pro	Xaa	Pro	Gly
1			5					10					15		
Ala	Trp	Ala	Ser	Xaa	Xaa	Xaa	His	Pro	Xaa	Xaa	Pro	Asn	Ser	Phe	Pro
			20					25				30			
Xaa	Gly	Leu	Ser	Pro	Lys	Pro	Xaa	Ala	Arg	Pro	Leu	Thr	Ser	Gly	Cys
		35					40				45				
Asn	Pro	Arg	Thr	Asn	Ile	Ser	Val	Glu	Leu	Met	Pro	Gln	Ser	Arg	Ile
		50				55				60					
Lys	Leu	Asp	Ala	Asn	Leu	Lys	Asp	Phe	Glu	Ala	Gln	Leu	Ala	Ala	Thr
65				70					75						80
Asp	Lys	Gln	Val	Gly	Asn	Glu	Leu	Ala	Pro	Leu	Lys	Gly	Lys	Gly	Tyr
			85					90						95	
Phe	Val	Phe	His	Asp	Ala	Tyr	Gly	Tyr	Tyr	Glu	Lys	His	Tyr	Gly	Leu
			100					105					110		
Thr	Pro	Leu	Gly	His	Phe	Thr	Val	Asn	Pro	Glu	Ile	Gln	Pro	Gly	Ala
		115					120					125			
Gln	Arg	Leu	His	Glu	Ile	Arg	Thr	Gln	Leu	Val	Glu	Gln	Lys	Ala	Thr
		130				135					140				

Cys Val Phe Ala Glu Pro Gln Phe Arg Pro Ala Val Val Glu Ala Val
 145 150 155 160
 Ala Arg Gly Thr Ser Val Arg Met Gly Thr Leu Asp Pro Leu Gly Thr
 165 170 175
 Asn Ile Gln Leu Ser Lys Ala Ser Tyr Ser Gln Phe Leu Ser Gln Leu
 180 185 190
 Ala Asn Gln Tyr Ala Ser Cys Leu Lys Gly Asp
 195 200

<210> 6354

<211> 445

<212> PRT

<213> Enterobacter cloacae

<400> 6354

Arg Gly Ser Glu Tyr Val Gln Gln Ile Ala Arg Ser Val Ala Leu Ala
 1 5 10 15
 Phe Asn Asn Leu Pro Arg Pro His Arg Val Met Leu Gly Ser Leu Thr
 20 25 30
 Val Leu Thr Leu Ala Val Ala Val Trp Arg Pro Tyr Val Tyr His Pro
 35 40 45
 Ser Ser Ala Pro Ile Ile Lys Thr Ile Glu Leu Glu Lys Ser Glu Ile
 50 55 60
 Arg Ser Leu Leu Pro Glu Ala Ser Glu Pro Ile Asp Gln Ala Ala Gln
 65 70 75 80
 Glu Asp Glu Ala Ile Pro Gln Asp Glu Leu Asp Asp Lys Ile Gln Asn
 85 90 95
 Glu Ala Gly Ile His Glu Tyr Val Val Ser Thr Gly Asp Thr Leu Ser
 100 105 110
 Ser Val Leu Asn Gln Tyr Gly Ile Asp Met Gly Asn Ile Ser Gln Leu
 115 120 125
 Ala Ala Ser Asp Lys Glu Leu Arg Asn Leu Lys Ile Gly Gln Gln Leu
 130 135 140
 Ser Trp Thr Leu Thr Pro Asp Gly Asp Leu Gln Arg Leu Thr Trp Glu
 145 150 155 160
 Met Ser Arg Arg Glu Thr Arg Thr Tyr Asp Arg Thr Ala Asn Gly Phe
 165 170 175
 Lys Met Thr Ser Glu Leu Gln Gln Gly Asp Trp Val Asn Ser Val Met
 180 185 190
 Lys Gly Thr Val Gly Gly Ser Phe Val Ser Ser Ala Arg Asp Ala Gly
 195 200 205
 Leu Thr Ser Ala Glu Ile Ser Ser Val Ile Lys Ala Met Gln Trp Gln
 210 215 220
 Met Asp Phe Arg Lys Leu Lys Lys Gly Asp Gln Phe Ser Val Leu Met
 225 230 235 240
 Ser Arg Glu Met Leu Asp Gly Lys Arg Glu Gln Ser Gln Leu Val Gly
 245 250 255
 Val Arg Leu Arg Ser Asp Gly Lys Asp Tyr Tyr Ala Ile Arg Ala Glu
 260 265 270
 Asp Gly Lys Phe Tyr Asp Arg Ser Gly Thr Gly Leu Ala Lys Gly Phe
 275 280 285
 Leu Arg Phe Pro Thr Ala Lys Gln Phe Arg Val Ser Ser Asn Phe Asn
 290 295 300
 Pro Arg Arg Leu Asn Pro Val Thr Gly Arg Val Ala Pro His Arg Gly
 305 310 315 320
 Val Asp Phe Ala Met Pro Gln Gly Thr Pro Val Leu Ala Val Gly Asp
 325 330 335
 Gly Glu Val Val Met Ala Lys Arg Ser Gly Ala Ala Gly Tyr Tyr Val
 340 345 350
 Ala Ile Arg His Gly Arg Thr Tyr Thr Thr Arg Tyr Met His Leu Arg
 355 360 365

Lys Leu Leu Val Lys Pro Gly Gln Lys Val Lys Arg Gly Asp Arg Ile
 370 375 380
 Ala Leu Ser Gly Asn Thr Gly Arg Ser Thr Gly Pro His Leu His Tyr
 385 390 395 400
 Glu Val Trp Ile Asn Gln Gln Ala Val Asn Pro Leu Thr Ala Lys Leu
 405 410 415
 Pro Arg Thr Glu Gly Leu Thr Gly Lys Asp Arg Lys Asp Tyr Leu Ala
 420 425 430
 Gln Val Lys Glu Val Met Pro Gln Leu Arg Phe Asp
 435 440 445

<210> 6355

<211> 72

<212> PRT

<213> Enterobacter cloacae

<400> 6355

Lys Ala Gly Val Ser Met Arg Arg Leu Phe Leu Leu Cys Ala Gly Gly
 1 5 10 15
 Ser Leu Ala Thr Leu Ser Ala Tyr Ile Phe Ala Ser Pro Asp Pro Gly
 20 25 30
 Thr Arg Met Glu Thr Lys Lys Asn Asn Ile Glu Tyr Ile His Glu Phe
 35 40 45
 Glu Lys Ser Phe Arg His Pro Arg Asn Trp Gly Ala Trp Ile Gly Val
 50 55 60
 Tyr Ala Phe Ala Gly Met Ala
 65 70

<210> 6356

<211> 286

<212> PRT

<213> Enterobacter cloacae

<400> 6356

Leu Pro Ala Thr Leu Arg Asp Pro Val Leu Gly Lys Val Gly Arg Leu
 1 5 10 15
 Ala Gly Arg Leu Gly Lys Ser Ala Arg Arg Arg Ala Gln Ile Asn Leu
 20 25 30
 Leu Tyr Cys Phe Pro Asp Lys Ser Asp Ala Glu Arg Glu Ala Ile Ile
 35 40 45
 Asp Asp Met Tyr Thr Thr Ala Pro Gln Ala Met Ala Met Met Ala Glu
 50 55 60
 Leu Ala Leu Lys Gly Pro Glu Lys Ile Val Glu Arg Val Asp Trp Lys
 65 70 75 80
 Gly Leu Glu Ile Ile Asp Glu Met Arg Arg Asn Asp Glu Lys Val Ile
 85 90 95
 Phe Leu Val Pro His Gly Trp Gly Val Asp Ile Pro Ala Met Leu Met
 100 105 110
 Ala Ser Gln Gly Gln Lys Met Ala Ala Met Phe His Asn Gln Gly Asn
 115 120 125
 Lys Ile Tyr Asp Phe Val Trp Asn Thr Val Arg Arg Arg Phe Gly Gly
 130 135 140
 Arg Leu His Ala Arg Asn Asp Gly Ile Lys Pro Phe Ile Gln Ser Val
 145 150 155 160
 Arg Gln Gly Tyr Trp Gly Tyr Tyr Leu Pro Asp Gln Asp His Gly Pro
 165 170 175
 Glu His Ser Glu Phe Val Asp Phe Phe Ala Thr Tyr Lys Ala Thr Leu
 180 185 190
 Pro Ala Ile Gly Arg Leu Met Lys Val Cys Arg Ala Arg Val Ile Pro
 195 200 205
 Leu Phe Pro Ala Tyr Asp Gly Lys Thr His Arg Leu Ser Ile Glu Val

210		215		220
Arg Pro Pro Met Asp Asp	Leu Leu Thr Ala Asp	Asp His Thr Ile Ala		
225	230	235	240	
Arg Arg Met Asn Glu Val Glu Val	Leu Val Gly Pro His Lys Glu			
	245	250	255	
Gln Tyr Thr Trp Ile Leu Lys Leu Leu Lys Thr Arg Lys Pro Gly Glu				
	260	265	270	
Thr Glu Pro Tyr Lys Arg Lys Glu Leu Phe Pro Lys Lys				
275	280	285		

<210> 6357

<211> 257

<212> PRT

<213> Enterobacter cloacae

<400> 6357

Trp Phe Gln Glu Thr Arg Lys Ser Ser Thr Val His Cys Asn Lys Ile				
1	5	10	15	
Thr Thr Ile Pro Gly Arg Val Pro Gly Asp Leu Thr Glu Glu Asn Asp				
20	25	30		
Met Ala Val Thr Gln Thr Ala Gln Ala Cys Asp Leu Val Ile Phe Gly				
35	40	45		
Ala Lys Gly Asp Leu Ala Arg Lys Leu Leu Pro Ser Leu Tyr Gln				
50	55	60		
Leu Glu Lys Ala Gly Gln Ile His Pro Asp Thr Arg Ile Leu Gly Val				
65	70	75	80	
Gly Arg Ala Asp Trp Asp Lys Glu Ala Tyr Thr Lys Val Val Arg Glu				
	85	90	95	
Ala Leu Glu Thr Phe Met Lys Glu Lys Ile Asp Glu Ser Leu Trp Asp				
100	105	110		
Lys Leu Ser Gly Arg Leu Asp Phe Cys Asn Leu Asp Val Asn Asp Val				
115	120	125		
Gly Ala Phe Thr Arg Leu Gly Glu Met Leu Asp Gln Glu Asn Arg Val				
130	135	140		
Thr Ile Asn Tyr Phe Ala Met Pro Pro Ser Thr Phe Gly Ala Ile Cys				
145	150	155	160	
Lys Gly Leu Gly Glu Ala Lys Leu Asn Ala Lys Pro Ala Arg Val Val				
	165	170	175	
Met Glu Lys Pro Leu Gly Thr Ser Leu Ala Thr Ser Arg Glu Ile Asn				
180	185	190		
Asp Gln Val Gly Glu Phe Phe Glu Glu Cys Gln Val Tyr Arg Ile Asp				
195	200	205		
His Tyr Leu Gly Lys Glu Thr Val Thr Glu Leu Ala Gly Val Ala Phe				
210	215	220		
Cys Gln Leu Pro Val Cys Glu Gln Met Gly Gln Pro His Tyr Arg Pro				
225	230	235	240	
Arg Gly Asn Tyr Arg Gly Gly Arg Gly Gly His Arg Ser Pro Leu Gly				
	245	250	255	

<210> 6358

<211> 253

<212> PRT

<213> Enterobacter cloacae

<400> 6358

Ala Ser Ser Leu Arg Ser Val Arg Phe Thr Val Leu Thr Thr Ile Trp				
1	5	10	15	
Ala Lys Arg Arg Leu Leu Asn Leu Leu Ala Trp Arg Phe Ala Asn Ser				
20	25	30		

Leu Phe Val Asn Lys Trp Asp Asn Arg Thr Ile Asp His Val Glu Ile
 35 40 45
 Thr Val Ala Glu Glu Val Gly Ile Glu Ala Arg Trp Gly Asn Phe Asp
 50 55 60
 Gln Ala Gly Gln Met Arg Asp Met Ile Gln Asn His Leu Leu Gln Ile
 65 70 75 80
 Leu Cys Met Ile Ala Met Ser Pro Pro Ser Asp Leu Thr Ala Asp Ser
 85 90 95
 Ile Arg Asp Ala Lys Val Lys Val Leu Lys Ser Leu Arg Arg Ile Asp
 100 105 110
 Arg Ser Asn Val Arg Glu Lys Thr Val Arg Gly Gln Tyr Thr Ala Gly
 115 120 125
 Phe Ala Gln Gly Lys Lys Val Pro Gly Tyr Leu Glu Glu Gly Ala
 130 135 140
 Asn Lys Ser Ser Asn Thr Glu Thr Phe Val Ala Ile Arg Val Asp Ile
 145 150 155 160
 Asp Asp Trp Arg Trp Ala Gly Val Pro Phe Tyr Leu Arg Thr Gly Lys
 165 170 175
 Arg Leu Pro Ala Lys Cys Ser Glu Val Val Val Tyr Phe Lys Asn Pro
 180 185 190
 Glu Leu Asn Leu Phe Lys Glu Ser Trp Gln Glu Leu Pro Gln Asn Lys
 195 200 205
 Leu Thr Ile Arg Leu Gln Pro Asp Glu Gly Val Asp Ile Gln Ile Leu
 210 215 220
 Asn Lys Val Pro Gly Leu Asp His Lys His Asn Leu Gln Thr Thr Lys
 225 230 235 240
 Leu Asp Leu Ser Tyr Ser Asp Thr Val His His Tyr
 245 250

<210> 6359

<211> 314

<212> PRT

<213> Enterobacter cloacae

<400> 6359

Tyr Arg Leu Asn Arg Ile Lys Val Ser Ser Leu Tyr Glu Ile Val Tyr
 1 5 10 15
 Ala Leu Met Ser Val Leu Leu Thr Met Asn Met Leu Glu Lys Ile Gln
 20 25 30
 Phe Gln Leu Glu His Leu Ser Lys Ser Glu Arg Lys Val Ala Glu Val
 35 40 45
 Ile Leu Ala Ala Pro Ala Gln Ala Ile His Ser Ser Ile Ala Ala Leu
 50 55 60
 Ala Gln Glu Ser Gly Val Ser Glu Pro Thr Val Asn Arg Phe Cys Arg
 65 70 75 80
 Ser Leu Asp Thr Arg Gly Phe Pro Asp Phe Lys Leu His Leu Ala Gln
 85 90 95
 Ser Leu Ala Asn Gly Thr Pro Tyr Val Asn Arg Asn Val Asp Glu Asp
 100 105 110
 Asp Ser Val Asp Ala Tyr Thr Ala Lys Ile Phe Glu Ser Ala Met Ala
 115 120 125
 Thr Leu Asp His Val Arg Gln Ser Leu Asp Met Ser Ser Val Asn Arg
 130 135 140
 Ala Val Asp Leu Leu Thr Gln Ala Lys Arg Ile Ala Phe Phe Gly Leu
 145 150 155 160
 Gly Ser Ser Ala Ala Val Ala His Asp Ala Met Asn Lys Phe Phe Arg
 165 170 175
 Phe Asn Val Pro Val Ile Tyr Ser Asp Asp Ile Val Leu Gln Arg Met
 180 185 190
 Ser Cys Met Asn Cys Ser Glu Asp Asp Val Val Val Leu Ile Ser His
 195 200 205

Thr Gly Arg Thr Lys Ser Gln Val Glu Leu Ala Gln Leu Ala Arg Asp
 210 215 220
 Asn Asp Ala Met Val Ile Ala Leu Thr Thr Ala Gly Thr Pro Leu Ala
 225 230 235 240
 Arg Glu Ala Thr Leu Ala Ile Thr Leu Asp Val Pro Glu Asp Thr Asp
 245 250 255
 Met Tyr Met Pro Met Val Ser Arg Leu Ala Gln Leu Thr Val Ile Asp
 260 265 270
 Val Leu Ala Thr Gly Phe Thr Leu Arg Arg Gly Ala Lys Phe Arg Asp
 275 280 285
 Asn Leu Lys Arg Val Lys Glu Ala Leu Lys Glu Ser Arg Phe Asp Lys
 290 295 300
 Glu Leu Leu Ile Lys Ser Asp Val Pro
 305 310

<210> 6360

<211> 518

<212> PRT

<213> Enterobacter cloacae

<400> 6360

Arg Arg Ser Thr Ile Tyr Gly Ile Arg Ser Pro Arg Tyr Cys Leu Ala
 1 5 10 15
 Ile Asp Glu Gly Arg Phe Tyr Val His Ala Thr Pro Lys Leu Phe Gln
 20 25 30
 Ser Thr Glu Tyr Tyr Met Ser Arg Arg Leu Arg Arg Thr Lys Ile Val
 35 40 45
 Thr Thr Leu Gly Pro Ala Thr Asp Arg Asp Asn Asn Leu Glu Lys Ile
 50 55 60
 Ile Ala Ala Gly Ala Asn Val Val Arg Met Asn Phe Ser His Gly Thr
 65 70 75 80
 Pro Glu Asp His Lys Leu Arg Ala Asp Lys Val Arg Glu Ile Ala Ala
 85 90 95
 Lys Leu Gly Arg His Val Ala Ile Leu Gly Asp Leu Gln Gly Pro Lys
 100 105 110
 Ile Arg Val Ser Thr Phe Lys Glu Gly Lys Val Phe Leu Asn Ile Gly
 115 120 125
 Asp Lys Phe Leu Leu Asp Ala Asn Leu Ser Lys Gly Glu Gly Asp Lys
 130 135 140
 Glu Lys Val Gly Ile Asp Tyr Lys Gly Leu Pro Ala Asp Val Val Pro
 145 150 155 160
 Gly Asp Ile Leu Leu Leu Asp Asp Gly Arg Val Gln Leu Lys Val Leu
 165 170 175
 Glu Val Gln Gly Met Lys Val Phe Thr Glu Val Thr Val Gly Gly Pro
 180 185 190
 Leu Ser Asn Asn Lys Gly Ile Asn Lys Leu Gly Gly Gly Leu Ser Ala
 195 200 205
 Glu Ala Leu Thr Asp Lys Asp Lys Ala Asp Ile Val Thr Ala Ala Gln
 210 215 220
 Ile Gly Val Asp Tyr Leu Ala Val Ser Phe Pro Arg Cys Gly Glu Asp
 225 230 235 240
 Leu Asn Tyr Ala Arg Arg Leu Ala Arg Asp Ala Gly Cys Asp Ala Lys
 245 250 255
 Ile Val Ala Lys Val Glu Arg Ala Glu Ala Val Cys Asp Gln Asp Ala
 260 265 270
 Met Asp Asp Val Ile Leu Ala Ser Asp Val Val Met Val Ala Arg Gly
 275 280 285
 Asp Leu Gly Val Glu Ile Gly Asp Pro Glu Leu Val Gly Ile Gln Lys
 290 295 300
 Ala Leu Ile Arg Arg Ala Arg Gln Leu Asn Arg Ala Val Ile Thr Ala
 305 310 315 320

Thr Gln Met Met Glu Ser Met Ile Thr Asn Pro Met Pro Thr Arg Ala
 325 330 335
 Glu Val Met Asp Val Ala Asn Ala Val Leu Asp Gly Thr Asp Ala Val
 340 345 350
 Met Leu Ser Ala Glu Thr Ala Ala Gly Gln Tyr Pro Ala Glu Thr Val
 355 360 365
 Ala Ala Met Ala Arg Val Cys Leu Gly Ala Glu Lys Ile Pro Ser Ile
 370 375 380
 Asn Val Ser Lys His Arg Leu Asp Ile Gln Phe Asp Asn Val Glu Glu
 385 390 395 400
 Ala Ile Ala Met Ser Ala Met Tyr Ala Ala Asn His Leu Lys Gly Val
 405 410 415
 Thr Ala Ile Ile Thr Met Thr Glu Ser Gly Arg Thr Ala Leu Met Thr
 420 425 430
 Ser Arg Ile Ser Ser Gly Leu Pro Ile Phe Ala Met Ser Arg His Glu
 435 440 445
 Arg Thr Leu Asn Leu Thr Ala Leu Tyr Arg Gly Val Thr Pro Val Tyr
 450 455 460
 Phe Asp Ser Thr Asn Asp Gly Val Ala Ala Ala His Asp Ala Val Asn
 465 470 475 480
 Leu Leu Arg Asp Lys Gly Tyr Leu Val Ser Gly Asp Ile Val Ile Val
 485 490 495
 Thr Gln Gly Asp Val Met Ser Thr Ile Gly Ser Thr Asn Thr Thr Arg
 500 505 510
 Val Leu Thr Val Glu
 515

<210> 6361

<211> 80

<212> PRT

<213> Enterobacter cloacae

<400> 6361

Lys Glu Leu Ala Leu Lys Lys Ile Phe Val Ser Val Phe Ala Ala Ala
 1 5 10 15
 Val Ala Leu Ser Ala Leu Thr Gly Cys Thr Arg Thr Ser Tyr Ala Ile
 20 25 30
 His Thr Asn Asp Gly Arg Thr Ile Val Ser Asp Gly Lys Pro Thr Glu
 35 40 45
 Ser Asp Ser Gly Leu Leu Gly Tyr Lys Asp Ala Asn Gly Val Lys Gln
 50 55 60
 Gln Ile Asn Lys Ala Asp Val Lys Glu Val Ser Glu Ile Pro His
 65 70 75 80

<210> 6362

<211> 166

<212> PRT

<213> Enterobacter cloacae

<400> 6362

Arg Glu Pro Ser Met Asn Ser Leu Leu Thr Leu Ala Lys Asp Leu Glu
 1 5 10 15
 Gln Lys Ser Lys Val Gln Gln Gln Thr Thr Gly Glu Met Leu Lys Ala
 20 25 30
 Ala Phe Ser Glu His Asp Lys Ser Val Arg Thr Glu Leu Asn Glu Ser
 35 40 45
 Glu Lys Arg Ile Ser Ala Ala Ile His Asp His Asp Arg Met Leu Ser
 50 55 60
 Ser Ala Met Ser Gln Arg Thr Lys Gly Met Leu Arg Met Val Ser Gln
 65 70 75 80
 Thr Trp Leu Thr Ile Val Leu Val Ser Val Leu Leu Ile Ala Ser Ser

85 90 95
 Ala Gly Ile Leu Trp Trp Gln Gly Gln Gln Ile Leu Asp Asn Tyr Thr
 100 105 110
 Thr Ile Arg Glu Gln Lys Ser Thr Gln Ala Met Leu Ser Glu Arg Asn
 115 120 125
 Ser Gly Val Gln Leu Thr Thr Cys Gly Glu Glu Arg Arg Arg Cys Val
 130 135 140
 Arg Val Asn Pro Asp Ala Gly Arg Phe Gly Glu Asp Ser Ser Trp Met
 145 150 155 160
 Ile Leu Ala Gly Lys
 165

<210> 6363
 <211> 71
 <212> PRT
 <213> Enterobacter cloacae

<400> 6363
 His Met Thr Glu Leu Glu Lys Gln Leu Leu Ser Ala Leu Glu Gln Leu
 1 5 10 15
 Gln Gln Asp Tyr Ser Lys Arg Leu Asp Glu Trp Glu Ser Ala Phe Ala
 20 25 30
 Glu Trp Arg Thr Met Cys Gly Leu Met Gln Arg Glu Asn Ala Ala Leu
 35 40 45
 Ser Glu Arg Val Thr Asp Leu Ser Thr Gln Val Leu Ser Leu Ser Glu
 50 55 60
 Gln Leu Arg Arg Leu Ser
 65 70

<210> 6364
 <211> 112
 <212> PRT
 <213> Enterobacter cloacae

<400> 6364
 Ile Ser Val Ile Trp Gln Arg Leu Leu Lys Met Pro Glu Thr Lys Gln
 1 5 10 15
 Glu Ala Ala Gln Ala Ile Thr Arg Gly Leu Leu Ala Leu Ala Ser Ser
 20 25 30
 Gly Glu Leu Lys Thr Arg His Asp Val Thr Glu Ala Leu Glu Ser Ala
 35 40 45
 Gly Phe Glu Val Val Arg Thr Thr Lys Ser Ser Ile Ser Ile Ala Asp
 50 55 60
 Pro Asp Gly Gly Arg Asn Ile Arg Leu Lys Gly Ala Ile Tyr Glu Gln
 65 70 75 80
 Ser Phe Asn Ala Gly Glu Gly Leu Arg Ala Glu Ile Glu Ser Ala Ala
 85 90 95
 Thr Asp Tyr Arg Arg Asp Ala Glu Ser Arg Ile Gln Arg Ala Arg
 100 105 110

<210> 6365
 <211> 236
 <212> PRT
 <213> Enterobacter cloacae

<400> 6365
 Val Cys Gln Asn Gly Thr Glu Arg Lys Arg Glu Glu Asn Gln Arg Arg
 1 5 10 15
 His Pro Arg Pro Arg Pro Asp Ala Val Leu Ser His Glu Pro Ala Tyr
 20 25 30
 Glu Arg Asp Ala Ala His Gly Gln Pro Asp Val Ala Asp His Arg Pro

35	40	45
Gly Leu Arg Ala Ala Asp Ser Leu Lys Cys Gly His Ser Met Val Ala		
50	55	60
Gly Ala Ala Asp Thr Arg Gln Leu His Asp His Pro Gly Ala Glu Glu		
65	70	75
His Ala Gly His Ala Val Arg Glu Glu Gln Arg Arg Ala Ala His Asp		
	85	90
Leu Arg Arg Gly Thr Thr Pro Leu Arg Glu Gly Glu Pro Gly Arg Gly		
	100	105
Thr Val Arg Arg Gly Phe Glu Leu Asp Asp Thr Gly Gly Glu Ile Ala		
	115	120
His Asp Gly Thr Gly Lys Thr Val Ala Glu Arg Ile Arg Ala Ala Thr		
	130	135
Ala Gly Leu Leu Glu Lys Ala Gly Arg Val Gly Glu Arg Leu Arg Gly		
	145	150
Met Ala Asp Asp Val Trp Ser Tyr Ala Thr Gly Glu Arg Ser Ala Glu		
	165	170
Arg Ala Arg His Gly Leu Glu His Ala Gly Ala Glu Phe Lys Arg Ala		
	180	185
Ala Ala Pro Val Val Val Arg Leu Asn Asp Ile Glu Ala His Arg Glu		
	195	200
Gln Glu Arg Ala Ala Gln His Gln Lys Ala Leu Glu Leu Glu Arg Ser		
	210	215
Gln Arg Gln Gln Glu Tyr Asp Gly Pro Ser Leu		
225	230	235

<210> 6366

<211> 1091

<212> PRT

<213> Enterobacter cloacae

<400> 6366

Lys Pro Arg Lys Ala Ala Arg Thr Ser Gly Ala Pro Asp Gln Ser Tyr		
1	5	10
Thr Gly Lys Leu Leu Lys Lys Pro Lys Phe Thr Gln Trp Ala Leu Ser		
	20	25
Leu Ala Arg Gly Ser Tyr Ile Gln Lys Arg Gly Ser His Met Glu Phe		
	35	40
Phe Tyr Val Val Lys Ala Thr Gln Lys Ser Gly Lys Glu Asp Ala Val		
	50	55
Ile Trp Phe Thr Ala Lys Ser Glu Ala Arg Ala Asn Leu Gln Leu Asp		
	65	70
Val Glu Leu Glu Asp Ala Gly Ile Glu Thr Gly Arg Gly Lys Asn Tyr		
	85	90
Ser Lys Pro Ala Arg Thr Asp Phe Pro Val Tyr Asn Asp Leu Pro Glu		
	100	105
Glu Ser Thr Val Asp Tyr Thr Trp Cys Lys Arg Tyr Glu Leu Gln Asp		
	115	120
Asp Gly Arg Thr Trp Leu Pro Lys Ala Gly Ala Val Ser Thr Gly Ala		
	130	135
Val Asp Asn Thr Ala Ala Pro Glu Pro Thr Val Lys Val Glu Ala Thr		
	145	150
Val Glu Cys Val Pro Leu Glu Asn Arg Thr Pro Ala Val Arg Phe Ala		
	165	170
Val His Leu Thr Ser Asp Lys Tyr Gln Ser His Ile Thr Lys Glu Gln		
	180	185
Gln Leu Ala Ala Ser Glu Met Ser Leu Asp Glu Gly Asn Thr Tyr Leu		
	195	200
Gln Asn Leu Leu Gln Ala Lys Asn Asp Ile Pro Glu Val Asp Glu Leu		
	210	215
Ser Leu Asn Ala Glu Trp Lys Leu Val Gln Ala Ile Lys Gln Val Phe		
	220	225

225						230						235						240
Ala	Pro	Asp	Glu	Glu	His	Glu	Val	Lys	Leu	Leu	Ala	Ala	Phe	Met	240			
					245						250						255	
Asp	Trp	Leu	Arg	Val	Asp	Ala	Gly	Asp	Arg	Asn	Glu	Leu	Val	Arg	Glu			
					260						265						270	
Trp	Arg	Ser	Gly	Lys	Leu	Thr	Leu	Leu	Lys	Ser	Glu	Ser	Thr	Ser	Glu			
					275						280						285	
Thr	Gly	Val	Thr	Thr	Asp	Gln	Asp	Pro	Glu	Pro	Asp	Asn	Gly	Ile	Gln			
					290						295						300	
Ile	Asp	Glu	Asn	Asp	Asp	Glu	Thr	Thr	Arg	Tyr	Pro	Val	Val	Arg	Met			
305						310						315						320
Pro	Phe	Arg	Lys	Gln	Leu	Leu	Ala	Gln	Phe	Thr	Ala	Asn	Glu	Leu	Arg			
					325						330						335	
His	His	Leu	Thr	Arg	Glu	Glu	Tyr	Glu	Gly	Ile	Ser	Ala	Leu	Glu	Met			
					340						345						350	
Asp	Thr	Asp	Asn	Gly	Tyr	Val	Gln	Asn	Leu	Leu	Leu	Ala	Ala	Glu	Asn			
					355						360						365	
Cys	Glu	Glu	Val	Lys	Gly	Tyr	Asp	Thr	Lys	Asp	Leu	Trp	Arg	Tyr	Thr			
					370						375						380	
Glu	Ala	Ile	Arg	Lys	Val	Phe	Ser	Gln	Glu	Lys	Arg	His	Glu	Leu	Ala			
385						390						395						400
Leu	Val	Leu	Arg	Phe	Thr	Arg	Ile	Trp	Ala	Ala	Thr	Asp	Tyr	Ile	Asp			
					405						410						415	
Arg	Gly	Ile	Leu	Val	Arg	Glu	Trp	Ala	Ala	Gly	Asn	Arg	Ile	Ser	Asn			
					420						425						430	
Ile	Gln	Arg	Thr	Asp	Ser	Gly	Thr	Asn	Ala	Asp	Gly	Ala	Tyr	Val	Thr			
					435						440						445	
Asp	Arg	Gly	Glu	Gly	Ala	His	His	Thr	Leu	Asp	Thr	Leu	Asp	Leu	Glu			
					450						455						460	
Ile	Ala	Cys	Ala	Leu	Leu	Pro	Met	Asp	Phe	His	His	Phe	Glu	Ile	Pro			
465						470						475						480
Ser	Ser	Val	Leu	Arg	Arg	Ala	Lys	Glu	Ile	Val	Ala	Lys	Lys	Glu	Glu			
					485						490						495	
Pro	Trp	Lys	Ser	Trp	Ser	Ala	Ile	Leu	Arg	Asn	Gln	Pro	Gly	Val	Leu			
					500						505						510	
Ala	Val	Asn	Arg	Ala	Ala	Ile	Phe	Asn	Leu	Ile	Arg	Ile	Ala	Pro	Glu			
					515						520						525	
Asn	Ile	His	His	Thr	Pro	Ala	Ala	His	Leu	Glu	Phe	Val	Asn	Lys	Ala			
					530						535						540	
Met	Thr	Ala	Glu	Phe	Asn	Ser	Ala	Val	Glu	Val	Leu	Pro	Leu	Pro	Thr			
545						550						555						560
Ala	Ala	Val	Glu	Thr	Glu	Ala	Pro	Val	Glu	Gln	Pro	Gln	Val	Glu	Asn			
					565						570						575	
Leu	Gly	Ser	Gly	Val	Phe	Ser	Ile	Asp	Gly	Leu	Met	Gly	Gly	Asn	Thr			
					580						585						590	
Glu	Pro	Val	Ala	Asp	Thr	Ser	Ser	Asn	Glu	Val	Glu	Lys	Thr	Glu	Asn			
					595						600						605	
Ala	Ala	Glu	Thr	Thr	Ser	Asp	Val	Gln	Met	Glu	Thr	Ala	Lys	Pro	Glu			
					610						615						620	
Lys	Asp	Glu	Asp	Val	Gly	Ser	Val	Pro	Pro	Ser	Glu	Ser	Thr	Asp	Ala			
625						630						635						640
Ala	Asn	Ser	Gln	Thr	Asp	Ser	Val	Ala	Leu	Glu	Glu	Gln	Gln	Ala	Glu			
					645						650							

Leu Val His Ala Leu Ala Leu Gln Pro Glu Asn Leu Glu Thr Glu Phe
 725 730 735
 Ser Val Glu Pro Gln Ile Pro Glu Gly Ala Phe Thr Thr Thr Ala Thr
 740 745 750
 Leu Arg Glu Phe Ile Asp Ala Tyr Asn Ala Ser Leu Pro Ala Leu Leu
 755 760 765
 Ser Ala Asp Glu Ile Lys Ala Leu Leu Glu Glu His Asn Ala Ser Leu
 770 775 780
 Pro Ala Gln Val Pro Leu Gly Ala Ser Gln Glu Glu Thr Ala Gln Ser
 785 790 795 800
 Tyr Met Ala Leu Pro Ala Glu Tyr Gln Arg Ile Glu Glu Gly Gln Lys
 805 810 815
 Gln Thr Ala Ala Ala Met Lys Ala Cys Ile Lys Glu Tyr Asn Ala Thr
 820 825 830
 Leu Pro Val Pro Val Lys Thr Ser Gly Ser Arg Asp Ala Leu Leu Glu
 835 840 845
 Gln Leu Ala Ile Ile Asn Pro Asp Leu Val Ala Gln Glu Ala Gln Lys
 850 855 860
 Ser Thr Pro Leu Lys Val Ser Gly Ser Lys Ala Asp Met Ile Gln Ala
 865 870 875 880
 Val Lys Ser Val Lys Pro Asp Ala Ile Phe Ala Asp Glu Leu Leu Asp
 885 890 895
 Val Trp Arg Asp Asn Pro Asp Glu Lys Ile Leu Val Thr Arg Gln Gln
 900 905 910
 Leu Ala Thr Ala Arg Ala Ile Gln Ser Ala Leu Leu Ala His Pro Thr
 915 920 925
 Ala Gly Met Leu Leu Thr His Pro Ser Arg Ala Val Glu Val Ser Tyr
 930 935 940
 Phe Gly Phe Asp Asp Glu Thr Gly Leu Glu Val Arg Val Arg Pro Asp
 945 950 955 960
 Leu Glu Ile Glu Leu Asp Gly Val Arg Ile Gly Ala Asp Leu Lys Thr
 965 970 975
 Ile Ser Met Trp Asn Val Lys Gln Glu Ser Leu Arg Ala Arg Leu His
 980 985 990
 Arg Glu Ile Ile Asp Arg Asp Tyr His Leu Ser Ala Ala Met Tyr Cys
 995 1000 1005
 Glu Thr Ala Ala Leu Asp Gln Phe Phe Trp Ile Phe Val Asn Lys Asp
 1010 1015 1020
 Glu Asn Tyr His Trp Ile Ala Ile Ile Glu Ala Ser Thr Glu Leu Leu
 1025 1030 1035 1040
 Glu Leu Gly Met Leu Glu Tyr Arg Lys Thr Ile Arg Ala Ile Ala Thr
 1045 1050 1055
 Gly Phe Asp Thr Gly Glu Trp Pro Ala Pro Ile Thr Thr Asp Tyr Thr
 1060 1065 1070
 Asp Glu Leu Asn Asp Phe Asp Leu Arg Arg Leu Glu Ala Leu Arg Ala
 1075 1080 1085
 Gln Ala
 1090

<210> 6367

<211> 365

<212> PRT

<213> Enterobacter cloacae

<400> 6367

Gly Gly Phe Met His Asn Thr Asn Val Thr Val Thr Asp Gln Asn Thr
 1 5 10 15
 Val Ile Asn Ser Asn Val Ala Leu Phe Asp Ser Gln Tyr Leu Asn Ala
 20 25 30
 Ile Ser Thr Phe Ala Gln Ile Met Ala Gln Gly Thr Ala Thr Val Pro
 35 40 45

Lys His Leu Gln Gly Asn Gln Ala Asp Cys Met Ala Val Ala Met Gln
 50 55 60
 Ala Ala Gln Trp Gln Met Asn Pro Phe Ala Val Ala Gln Lys Thr His
 65 70 75 80
 Leu Ile Asn Gly Val Leu Gly Tyr Glu Ala Gln Leu Val Asn Ala Val
 85 90 95
 Ile Ser Arg Ser Gly Val Leu Ala Ser Arg Phe Glu Tyr Glu Trp Tyr
 100 105 110
 Gly Pro Trp Glu Lys Val Val Gly Lys Phe His Ile Arg Lys Gly Asp
 115 120 125
 Lys Gly Glu Tyr Arg Val Pro Gly Trp Thr Leu Ala Asp Glu Ala Gly
 130 135 140
 Ile Gly Ile Ile Ile Arg Ala Thr Leu Lys Gly Glu Asp Gln Pro Arg
 145 150 155 160
 Glu Leu Asp Leu Leu Leu Ala Gln Ala Arg Thr Arg Asn Ser Thr Leu
 165 170 175
 Trp Ala Asp Asp Pro Arg Gln Gln Leu Ala Tyr Leu Ala Val Lys Arg
 180 185 190
 Trp Ala Arg Leu Phe Cys Pro Asp Val Ile Leu Gly Val Tyr Thr Pro
 195 200 205
 Asp Glu Leu Asp Asp Arg Arg Glu Glu Arg Glu Val Asn Pro Ala Pro
 210 215 220
 Ala Gln His Val Ser Leu Ala Asp Ile Ser Gly Asp Asn Val Thr Thr
 225 230 235 240
 Thr Gln Thr Ala Gln Glu Ser Ala Gln Asn Ile Tyr Ala Leu Ala Asp
 245 250 255
 Asp Phe Arg Asp Arg Ile Glu Ala Ala Gln Asp Val Asp Ser Ala Lys
 260 265 270
 Ala Leu Arg Ala Asp Ile Glu Thr Val Lys Ala Thr Leu Gly Ser Ala
 275 280 285
 Leu Phe Thr Glu Leu Lys Asn Lys Ala Val Lys Arg Tyr Tyr Leu Val
 290 295 300
 Asp Ala Arg Asn Lys Val Glu Ala Ala Ile Asn Ser Leu Pro Ser Ser
 305 310 315 320
 Asp Glu Pro Asp Ala Ala Ala Arg Phe Ala Glu Val Glu Arg Val Leu
 325 330 335
 Ala Ala Ser Lys Arg His Leu Gly Asp Glu Leu His Gly Gln Phe Ser
 340 345 350
 Ile Thr Leu Ala Asp Met Lys Pro Glu Tyr Val Asp
 355 360 365

<210> 6368

<211> 72

<212> PRT

<213> Enterobacter cloacae

<400> 6368

Thr Met Ser Gln Val Ile Phe Asn Glu Glu Trp Val Val Gly Ala Arg
 1 5 10 15
 Leu Thr Glu Lys Thr Gly Leu Thr Glu Arg Gln Ile Glu Lys Tyr Arg
 20 25 30
 Gln Gly Cys Trp Val Glu Gly Val His Phe Lys Arg Val Ser Pro Ser
 35 40 45
 Gly Glu Lys Thr Leu Arg Gly Thr Thr Trp Tyr Asn Tyr Pro Arg Ile
 50 55 60
 Asn Gln Leu Ile Arg Asp Ala
 65 70

<210> 6369

<211> 70

<212> PRT

<213> Enterobacter cloacae

<400> 6369

Phe Phe Ala Ala Cys Ala Thr Tyr Trp Arg Lys Arg Gly Ile Gln Met
 1 5 10 15
 Cys Asn Ser Thr Lys Cys Gly Tyr Cys Gly Lys Thr Val Lys Pro Gly
 20 25 30
 Glu Val Val Lys Ser Thr Leu Leu Tyr Arg Asn Gly Ala Gln Leu Ala
 35 40 45
 Arg Lys Glu Lys Glu Tyr Cys Ser Glu Arg Cys Ala Ser Tyr Asp Gln
 50 55 60
 Met Ala His Glu Ala
 65 70

<210> 6370

<211> 417

<212> PRT

<213> Enterobacter cloacae

<400> 6370

Gly Met Arg Lys Met Ala Ala Leu Pro Thr Gly Val Glu Ile Arg Asn
 1 5 10 15
 Asn Lys Ile Cys Ile Trp Phe Met Tyr Arg Gly Lys Arg Cys Arg Glu
 20 25 30
 Ile Leu Lys Gly Trp Ile Asn Ser Pro Ala Asn Ile Lys Lys Ala Gly
 35 40 45
 Asn Leu Arg Ala Val Ile Val Ser Glu Ile Asn Leu Gly Glu Phe Asp
 50 55 60
 Tyr Asn Gln Arg Phe Pro Ser Ser Ser Arg Ala Lys Lys Thr Val Thr
 65 70 75 80
 Thr Val Ser Val Gln Thr Phe Ser Glu Leu Cys Glu Leu Trp Thr Ser
 85 90 95
 Ile Lys Glu Thr Glu Ile Ser Ala Asn Thr Met Arg Lys Thr Arg Leu
 100 105 110
 Gln Leu Gly Thr Leu Met His Ile Ile Asn Gly Asp Thr Pro Val Ser
 115 120 125
 Ala Ile Arg His Ser Asp Ile Leu Lys Tyr Arg Lys Glu Leu Leu Asn
 130 135 140
 Gly Glu Thr Leu Tyr Leu Ala Asn Pro Arg Ser Asn Lys Gln Gly Arg
 145 150 155 160
 Thr Val Arg Thr Val Asn Asn Tyr Ile Ser Leu Leu Cys Ser Leu Leu
 165 170 175
 Arg Phe Ala His Lys Ser Gly Phe Ile Ser Gly Lys Pro Phe Glu Gly
 180 185 190
 Ile Lys Lys Leu His Lys Gly Lys Val Lys Pro Asp Pro Leu Thr Lys
 195 200 205
 Gln Glu Phe Ser Leu Leu Ala Glu Ser Glu Arg Gly Gln Ser Leu Asn
 210 215 220
 Met Trp Thr Phe Ala Val Tyr Thr Gly Val Arg His Gly Glu Leu Ala
 225 230 235 240
 Ala Leu Ala Trp Glu Asp Ile Asp Trp Glu Lys Gly Thr Ala His Ile
 245 250 255
 Lys Arg Asn Leu Asn Ala Leu Gly Met Phe Gly Pro Pro Lys Thr Glu
 260 265 270
 Ala Gly Asn Arg Val Ile Thr Leu Leu Glu Pro Ala Leu Glu Ala Leu
 275 280 285
 Lys Ala Gln Arg Lys Leu Thr Ala Leu Gln Pro Lys Thr Glu Ile Val
 290 295 300
 Phe Asn His Arg Glu Tyr Gly Ala Val Glu Asn Gln Ser Leu Arg Phe
 305 310 315 320
 Val Phe Ile Pro Arg Met Arg Lys Gly Glu Gln Lys Ala Tyr Tyr Ser

325 330 335
 Leu Ser Ser Ile Gly Ala Arg Phe Asn Ala Ala Val Lys Arg Ala Gly
 340 345 350
 Ile Arg Arg Arg Asn Pro Tyr His Thr Arg His Thr Phe Ala Cys Trp
 355 360 365
 Leu Leu Ser Ala Gly Ala Asn Pro Ser Phe Ile Ala Ser Gln Met Gly
 370 375 380
 His Glu Asn Ala Gln Met Val Tyr Glu Val Tyr Gly Ala Trp Ile Glu
 385 390 395 400
 Glu Met Asn Gly Glu Gln Val Leu Met Leu Asn Asn Lys Leu Ala Arg
 405 410 415

<210> 6371

<211> 84

<212> PRT

<213> Enterobacter cloacae

<400> 6371

Ser His Gly Ala Leu Ala Gly Thr Gln Val Ser Ala Leu Ile Thr Leu
 1 5 10 15
 Thr Pro Leu Phe Thr Leu Leu Phe Ser Asp Leu Leu Ser Met Ala Trp
 20 25 30
 Pro Asp Val Phe Val Lys Pro Met Leu Asn Leu Leu Gly Tyr Leu Gly
 35 40 45
 Ala Phe Val Met Val Ala Gly Ala Met Tyr Ser Ala Ile Gly His Arg
 50 55 60
 Leu Trp Gly Arg Trp Arg Lys Asn Glu Ala Val Val Ile Val Pro Arg
 65 70 75 80
 Ser Gly Glu

<210> 6372

<211> 397

<212> PRT

<213> Enterobacter cloacae

<400> 6372

Val Thr Glu Ser Lys Met Lys Phe Val Asp Glu Ala Thr Ile Leu Val
 1 5 10 15
 Val Ala Gly Asp Gly Gly Asn Gly Cys Val Ser Phe Arg Arg Glu Lys
 20 25 30
 Tyr Ile Pro Arg Gly Gly Pro Asp Gly Gly Asp Gly Gly Asp Gly Gly
 35 40 45
 Asp Val Trp Leu Glu Ala Asp Glu Asn Leu Asn Thr Leu Ile Asp Tyr
 50 55 60
 Arg Phe Glu Lys Ser Phe Arg Ala Glu Arg Gly Gln Asn Gly Gln Ser
 65 70 75 80
 Arg Asp Cys Thr Gly Lys Arg Gly Lys Asp Val Thr Ile Lys Val Pro
 85 90 95
 Val Gly Thr Arg Val Ile Asp Gln Gly Thr Gly Glu Thr Met Gly Asp
 100 105 110
 Met Thr Lys His Gly Gln Arg Leu Met Val Ala Lys Gly Gly Trp His
 115 120 125
 Gly Leu Gly Asn Ser Arg Phe Lys Ser Ser Val Asn Arg Thr Pro Arg
 130 135 140
 Gln Lys Thr Met Gly Thr Pro Gly Asp Lys Arg Asp Leu Gln Leu Glu
 145 150 155 160
 Leu Met Leu Leu Ala Asp Val Gly Met Leu Gly Met Pro Asn Ala Gly
 165 170 175

Lys Ser Thr Phe Ile Arg Ala Val Ser Ala Ala Lys Pro Lys Val Ala
 180 185 190
 Asp Tyr Pro Phe Thr Thr Leu Val Pro Ser Leu Gly Val Val Arg Met
 195 200 205
 Asp Asn Glu Lys Ser Phe Val Val Ala Asp Ile Pro Gly Leu Ile Glu
 210 215 220
 Gly Ala Ala Glu Gly Ala Gly Leu Gly Ile Arg Phe Leu Lys His Leu
 225 230 235 240
 Glu Arg Cys Arg Val Leu Leu His Leu Ile Asp Ile Asp Pro Ile Asp
 245 250 255
 Gly Ser Asp Pro Val Glu Asn Ala Arg Ile Ile Ile Gly Glu Leu Glu
 260 265 270
 Lys Tyr Ser Glu Lys Leu Ala Gln Lys Pro Arg Trp Leu Val Phe Asn
 275 280 285
 Lys Ile Asp Leu Met Asp Lys Ala Glu Ala Glu Ala Lys Ala Lys Ala
 290 295 300
 Ile Ala Glu Ala Met Gly Trp Glu Asp Lys Tyr Tyr Leu Ile Ser Ala
 305 310 315 320
 Ala Ser Gln Val Gly Val Lys Asp Leu Cys Trp Asp Val Met Thr Phe
 325 330 335
 Ile Ile Glu Asn Pro Val Val Gln Ala Glu Glu Ala Lys Gln Pro Glu
 340 345 350
 Lys Val Glu Phe Met Trp Asp Asp Tyr His Arg Gln Gln Leu Glu Glu
 355 360 365
 Leu Glu Ala Glu Glu Asp Asp Glu Asp Trp Asp Asp Trp Asp Glu
 370 375 380
 Asp Asp Glu Glu Gly Val Glu Phe Ile Tyr Lys His
 385 390 395

<210> 6373

<211> 122

<212> PRT

<213> Enterobacter cloacae

<400> 6373

Ile Phe Ile Ala His Ser Glu Ser Tyr Glu Asp Val Arg Gly Ser Gly
 1 5 10 15
 Val Tyr Met Tyr Ala Val Phe Gln Ser Gly Gly Lys Gln His Arg Val
 20 25 30
 Ser Glu Gly Gln Thr Val Arg Leu Glu Lys Leu Asp Ile Ala Thr Gly
 35 40 45
 Glu Ser Val Glu Phe Ala Glu Val Leu Met Ile Ala Asn Gly Glu Glu
 50 55 60
 Val Lys Ile Gly Val Pro Phe Val Asp Gly Gly Val Ile Lys Ala Glu
 65 70 75 80
 Val Val Ala His Gly Arg Gly Glu Lys Val Lys Ile Val Lys Phe Arg
 85 90 95
 Arg Arg Lys His Tyr Arg Lys Gln Gln Gly His Arg Gln Trp Phe Thr
 100 105 110
 Asp Val Lys Ile Thr Gly Ile Ser Ala
 115 120

<210> 6374

<211> 281

<212> PRT

<213> Enterobacter cloacae

<400> 6374

Val Arg Phe Ser Arg Ser Gly Asn Gly Leu Lys Pro Arg Asn Val Leu
 1 5 10 15
 Arg Gly Phe Leu His Trp Lys Pro Gly Lys Phe Ser Val Gly Lys Thr

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<210> 6375
<211> 160
<212> PRT
<213> Enterobacter cloacae
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Gln	Met	Gln	Ala	Ile	Pro	Met	Thr	Leu	Arg	Gly	Ala	Glu	Lys	Leu	Arg
1				5					10					15	
Glu	Glu	Leu	Asp	Phe	Leu	Lys	Ser	Val	Arg	Arg	Pro	Glu	Ile	Ile	Ala
			20					25					30		
Ala	Ile	Ala	Glu	Ala	Arg	Glu	His	Gly	Asp	Leu	Lys	Glu	Asn	Ala	Glu
		35					40					45			
Tyr	His	Ala	Ala	Arg	Glu	Gln	Gln	Gly	Phe	Cys	Glu	Gly	Arg	Ile	Lys
	50					55					60				
Asp	Ile	Glu	Ala	Lys	Leu	Ser	Asn	Ala	Gln	Val	Ile	Asp	Ile	Thr	Lys
65					70					75					80
Met	Pro	Asn	Asn	Gly	Arg	Val	Ile	Phe	Gly	Ser	Thr	Val	Thr	Val	Leu
			85						90					95	
Asn	Leu	Asp	Asn	Asp	Glu	Glu	Gln	Thr	Tyr	Arg	Ile	Val	Gly	Asp	Asp
			100					105					110		
Glu	Ala	Asp	Phe	Lys	Gln	Asn	Leu	Ile	Ser	Val	Asn	Ser	Pro	Ile	Ala
		115					120					125			
Arg	Gly	Leu	Ile	Gly	Lys	Glu	Gln	Asp	Asp	Val	Val	Thr	Ile	Arg	Thr
	130					135					140				
Pro	Gly	Gly	Glu	Val	Glu	Tyr	Glu	Ile	Ile	Lys	Val	Glu	Tyr	Leu	
145					150					155					160

<210> 6376
 <211> 86
 <212> PRT
 <213> Enterobacter cloacae

<400> 6376
 Met Ala His Lys Lys Ala Gly Gly Ser Thr Arg Asn Gly Arg Asp Ser
 1 5 10 15
 Glu Ala Lys Arg Leu Gly Val Lys Arg Phe Gly Gly Glu Ser Val Leu
 20 25 30
 Ala Gly Ser Ile Ile Val Arg Gln Arg Gly Thr Lys Phe His Ala Gly
 35 40 45
 Thr Asn Val Gly Cys Gly Arg Asp His Thr Leu Phe Ala Lys Ala Asp
 50 55 60
 Gly Lys Val Lys Phe Glu Val Lys Gly Pro Asn Asn Arg Lys Tyr Ile
 65 70 75 80
 Ser Ile Val Ala Glu
 85

<210> 6377
 <211> 365
 <212> PRT
 <213> Enterobacter cloacae

<400> 6377
 Arg Ser His Gln Asn Arg Thr Arg Arg Gly Leu Pro Ser Gly Glu Pro
 1 5 10 15
 Glu Met Asn Ser Met Arg Arg Arg Leu Met Val Leu Leu Ala Val Ile
 20 25 30
 Leu Leu Phe Phe Gln Leu Ile Ser Val Val Trp Leu Trp His Glu Ser
 35 40 45
 Arg Glu Gln Ile Gly Phe Leu Val Asn Glu Thr Leu Ser Ala Lys Ala
 50 55 60
 Arg Asn Asn His Val Glu Lys Glu Ile Arg Glu Ala Ile Ala Ser Leu
 65 70 75 80
 Leu Val Pro Ser Leu Val Met Val Gly Phe Thr Leu Leu Phe Ser Phe
 85 90 95
 Trp Ala Val Thr Trp Ile Thr Arg Pro Leu Asn Lys Leu Arg Ala Ser
 100 105 110
 Leu Ala Asn Arg Ser Ala Asp Asn Leu Thr Pro Leu Pro Met Tyr Ser
 115 120 125
 Asp Met Glu Glu Ile Gly Ala Val Thr Thr Ser Leu Asn Gln Leu Leu
 130 135 140
 Ala Arg Leu Asp His Thr Ile Gln Gln Glu Arg Leu Phe Thr Ala Asp
 145 150 155 160
 Ala Ala His Glu Leu Arg Thr Pro Leu Ala Gly Ile Arg Leu His Leu
 165 170 175
 Glu Leu Met Ala Gln Ser Gly Ser Pro Gln Ala Thr Pro Leu Ile Asn
 180 185 190
 Arg Ile Asp Gln Leu Met His Thr Val Glu Gln Leu Leu Met Leu Ala
 195 200 205
 Arg Ala Gly Gln Ala Met Ala Ser Gly His Tyr Asp Thr Val Asn Trp
 210 215 220
 Thr Glu Ser Ile Ile Ala Pro Leu Ser Leu Glu His Glu Ala Lys Glu
 225 230 235 240
 His Thr Val Leu Trp Pro Ala His Ser Thr Leu Thr Val Gln Gly Asp
 245 250 255
 Ala Val Leu Leu Arg Leu Met Leu Arg Asn Leu Leu Glu Asn Ala Ala
 260 265 270
 Arg Tyr Ser Pro Ala Gly Thr Ile Ile Glu Val Ala Leu Thr Ala Thr
 275 280 285

Glu Gly Gly Thr Arg Val Ser Val Thr Asp Gln Gly Pro Gly Ile Asp
 290 295 300
 Glu Ala His Arg Gln Ser Ile Thr Glu Pro Phe Arg Arg Leu Asp Gln
 305 310 315 320
 Arg Tyr Gly Gly Ser Gly Leu Gly Leu Ser Ile Val Gln Arg Ile Val
 325 330 335
 Gln Leu His His Gly His Leu Thr Leu Glu Asn Gly Ala Glu Gly Gly
 340 345 350
 Leu Ile Ala Ser Cys Trp Leu Pro Thr Lys Ile Gly
 355 360 365

<210> 6378

<211> 125

<212> PRT

<213> Enterobacter cloacae

<400> 6378

Tyr Ile Asn Arg Gly Ser Cys Gln Pro Gln Val Val Lys Thr Met Asn
 1 5 10 15
 Arg Phe Gln Ser Gln Arg Lys Gln Lys Tyr Thr Met Asn Leu Ser Thr
 20 25 30
 Lys Gln Lys Gln His Leu Lys Gly Leu Ala His Pro Leu Lys Pro Val
 35 40 45
 Val Met Leu Gly Asn Asn Gly Leu Thr Glu Gly Val Leu Ala Glu Ile
 50 55 60
 Glu Gln Ala Leu Glu His His Glu Leu Ile Lys Val Lys Ile Ala Ser
 65 70 75 80
 Glu Asp Arg Asp Thr Lys Asn Leu Ile Val Glu Ala Ile Val Arg Glu
 85 90 95
 Thr Gly Ala Cys Asn Val Gln Val Ile Gly Lys Thr Leu Val Leu Tyr
 100 105 110
 Arg Pro Ser Lys Glu Arg Lys Ile Ser Leu Pro Arg
 115 120 125

<210> 6379

<211> 223

<212> PRT

<213> Enterobacter cloacae

<400> 6379

Leu Ala Met Lys Leu Leu Ile Val Glu Asp Asp Leu Leu Leu Gln Glu
 1 5 10 15
 Gly Leu Ala Leu Ala Leu Gly Asn Glu Gly Tyr Ala Leu Asp Cys Ala
 20 25 30
 Ala Thr Ala Ala Glu Ala Asp Ala Leu Ile Gln Ser Gly Glu Tyr Ser
 35 40 45
 Leu Val Ile Leu Asp Leu Gly Leu Pro Asp Lys Asp Gly Ala Thr Leu
 50 55 60
 Leu Cys Gln Trp Arg Arg Arg Gly Val Glu Asn Pro Val Leu Ile Leu
 65 70 75 80
 Thr Ala Arg Asp Ala Ile Glu Asp Arg Ile Asn Gly Leu Asp Ser Gly
 85 90 95
 Ala Asp Asp Tyr Leu Val Lys Pro Phe Ala Leu Ala Glu Leu Gln Ala
 100 105 110
 Arg Val Arg Ala Leu Ile Arg Arg Tyr Gln Gly His Ser Asp Asn Leu
 115 120 125
 Leu Thr Asp Gly Asp Ile Thr Leu Asn Leu Gln Thr Gln Gln Val Leu
 130 135 140
 Arg Gln Ser Gln Pro Val Glu Val Thr Pro Lys Glu Phe Ala Leu Leu
 145 150 155 160
 Thr Arg Leu Ile Met Arg Ser Gly Gln Thr Val His Arg Glu Thr Leu

				165					170				175				
Gln	Gln	Asp	Ile	Tyr	Ser	Trp	Gln	Asp	Asp	Pro	Gly	Ser	Asn	Thr	Leu		
			180					185					190				
Glu	Val	His	Ile	His	Asn	Leu	Arg	Arg	Lys	Leu	Gly	Lys	Asp	Arg	Ile		
		195					200					205					
Lys	Thr	Val	Arg	Gly	Val	Gly	Tyr	Arg	Leu	Glu	Ser	Gln	Lys				
	210					215					220						

<210> 6380

<211> 481

<212> PRT

<213> Enterobacter cloacae

<400> 6380

Arg	Glu	Ile	Met	Arg	Phe	Ser	Ser	Phe	Ile	Ile	Gly	Leu	Thr	Thr	Ser		
1				5				10						15			
Ile	Thr	Tyr	Thr	Val	Gln	Ala	Ala	Asn	Val	Asp	Glu	Tyr	Ile	Asn	Gln		
			20					25					30				
Leu	Pro	Ala	Gly	Ala	Asn	Leu	Ala	Leu	Met	Val	Gln	Lys	Val	Gly	Ala		
		35					40					45					
Gln	Ala	Pro	Glu	Ile	Asp	Tyr	His	Ser	Gln	Gln	Met	Ala	Leu	Pro	Ala		
	50					55					60						
Ser	Thr	Gln	Lys	Val	Ile	Thr	Ala	Leu	Ala	Ala	Leu	Leu	Gln	Leu	Gly		
65					70					75					80		
Pro	Asp	Phe	Arg	Phe	Thr	Thr	Thr	Leu	Glu	Thr	Arg	Gly	Asn	Val	Glu		
				85					90					95			
Gly	Gly	Glu	Leu	Lys	Gly	Asp	Leu	Ile	Ala	Arg	Phe	Gly	Gly	Asp	Pro		
			100					105					110				
Thr	Phe	Lys	Arg	Gln	Asp	Asp	Arg	Asn	Met	Val	Ala	Val	Leu	Lys	Lys		
		115					120					125					
Ser	Gly	Val	Thr	Lys	Ile	Asp	Gly	Asn	Val	Leu	Ile	Asp	Thr	Ser	Ile		
	130					135					140						
Phe	Ala	Ser	His	Asp	Lys	Ala	Pro	Gly	Trp	Pro	Trp	Asn	Asp	Met	Thr		
145					150					155					160		
Gln	Cys	Phe	Ser	Ala	Pro	Pro	Ala	Ala	Ala	Ile	Val	Asp	Arg	Asn	Cys		
				165					170						175		
Phe	Ser	Val	Ser	Leu	Tyr	Ser	Ala	Pro	Lys	Pro	Asn	Asp	Leu	Ala	Phe		
			180					185					190				
Ile	Arg	Val	Ala	Ser	Tyr	Tyr	Pro	Val	Thr	Met	Phe	Ser	Gln	Val	Arg		
		195					200						205				
Thr	Leu	Ala	Lys	Gly	Ser	Pro	Glu	Ala	Gln	Tyr	Cys	Glu	Leu	Asp	Val		
	210					215					220						
Val	Pro	Gly	Asp	Leu	Asn	Arg	Tyr	Thr	Leu	Thr	Gly	Cys	Leu	Thr	Gln		
225					230						235				240		
Arg	Ala	Asp	Pro	Leu	Pro	Leu	Ala	Phe	Ala	Ile	Gln	Asp	Gly	Ala	Gly		
				245					250						255		
Tyr	Ala	Gly	Ala	Ile	Phe	Lys	Asp	Glu	Leu	Lys	Gln	Ala	Gly	Ile	Thr		
			260					265						270			
Tyr	Thr	Gly	Thr	Leu	Leu	Arg	Gln	Thr	Gln	Val	Asn	Glu	Pro	Gly	Thr		
		275					280					285					
Val	Ile	Ala	Ser	Lys	Gln	Ser	Ala	Pro	Leu	His	Asp	Leu	Leu	Lys	Ile		
	290					295					300						
Met	Leu	Lys	Lys	Ser	Asp	Asn	Met	Ile	Ala	Asp	Thr	Val	Phe	Arg	Met		
305					310					315					320		
Ile	Gly	His	Ala	Arg	Phe	Gly	Val	Pro	Gly	Thr	Trp	Arg	Ala	Gly	Ser		
				325					330						335		
Asp	Ala	Val	Arg	Gln	Ile	Leu	Arg	Gln	Gln	Ala	Gly	Ile	Asp	Leu	Gly		
			340					345					350				
Asn	Thr	Ile	Ala	Val	Asp	Gly	Ser	Gly	Leu	Ser	Arg	His	Asn	Leu	Ile		
		355					360					365					
Ser	Pro	Ala	Thr	Met	Met	Gln	Val	Leu	Gln	Tyr	Ile	Ala	Gln	His	Asp		

370		375		380
Ala Glu Leu Asn Phe	Ile Thr Met Leu Pro	Leu Ala Gly His Asp Gly		
385	390	395		400
Ser Leu Gln Tyr Arg	Ala Gly Leu His Ala	Ala Gly Val Asp Gly Lys		
	405	410		415
Val Ser Ala Lys Thr	Gly Ser Leu Gln Gly	Val Tyr Asn Leu Ala Gly		
	420	425		430
Phe Ile Thr Thr Ala	Ser Gly Gln Arg Met Ala	Phe Val Gln Tyr Leu		
	435	440		445
Ser Gly Tyr Ala Val	Glu Pro Ala Asp Gln Arg	Asn Arg Arg Ile Pro		
	450	455		460
Leu Val Arg Phe Glu	Ser Arg Leu Tyr Lys	Asp Ile Tyr Gln Asn Asn		
465	470	475		480

<210> 6381

<211> 232

<212> PRT

<213> Enterobacter cloacae

<400> 6381

Cys Met Val Ser Gly Trp Pro Ser Glu Glu Cys Leu Met Lys Tyr Ser		
1	5	10
Leu Ile Tyr Ala Asp Pro Ala Trp Leu Tyr Asp Asn Lys Ala Ser Asn		
	20	25
Gly Ala Ala Glu Asp His Tyr Asp Thr Met Lys Leu Ile Asp Met Lys		
	35	40
Arg Leu Pro Val Trp Asp Leu Ala Ala Asp Asp Ala Val Leu Ala Met		
	50	55
Trp Phe Thr Gly Thr His Thr Arg Glu Ala Ile Glu Leu Ala Glu Ala		
	65	70
Trp Gly Phe Lys Val Arg Thr Met Lys Gly Phe Thr Trp Val Lys Phe		
	85	90
Asn Pro Leu Ala Glu Lys His Ile Asn Lys Ala Leu Gln Ala Gly Arg		
	100	105
Val Glu Asp Phe Tyr Asp Phe Leu Asp Leu Leu Asn Ala Gln Thr Arg		
	115	120
Met Asn Gly Gly Asn Tyr Thr Arg Ala Asn Thr Glu Asp Leu Leu Ile		
	130	135
Ala Thr Arg Gly Asn Gly Leu Glu Arg Lys Cys Ala Ser Ile Lys Gln		
	145	150
Val Ile Tyr Ser Pro Leu Gly Glu His Ser Arg Lys Pro Ala Glu Ala		
	165	170
Arg Phe Arg Leu Glu Lys Leu Tyr Gly Asp Val Pro Arg Ile Glu Leu		
	180	185
Phe Ser Arg Cys Gly Ala Pro Gly Trp Asp His Trp Gly Asn Gln Ser		
	195	200
Glu Leu Pro Ala Val Glu Leu Ile Pro Ala Val Ala Val Pro Met Lys		
	210	215
Lys Gln Gln Glu Arg Ala Ala		220
225	230	

<210> 6382

<211> 256

<212> PRT

<213> Enterobacter cloacae

<400> 6382

Ser Glu Trp Arg Lys Gly Arg Asp Ile Asp Asn Gln Ala Ser Thr Ser
1
5
10
15

```

Asn Gly Gly Asn Gly Val Arg Ala Ile Leu Thr Pro Glu Ile Ala Pro
 20          25          30
Met Ser Gly Val Val Leu Phe Arg Pro Gly Asn Glu Leu Trp Leu
 35          40          45
Phe Arg Gln Gly Arg Val Val Ile Glu Gln Pro Ser Glu Ala Ile Gln
 50          55          60
His Leu Pro Ser Gly Leu Ile Pro Glu Ala His Gln Pro Leu Thr Asp
 65          70          75          80
Asp Ala Asn Met Lys Ala Ile Phe Val Asn Glu Arg Val Ile Gln Arg
 85          90          95
Ala Gly Gly Leu Ser Ser Leu Asp Ala Trp Leu Glu Arg Lys Phe Glu
100          105          110
Cys Gln Trp Pro His Thr Asp Trp His Ala Thr Asp Phe Thr Val Met
115          120          125
Arg His Ala Pro Gly Ser Ile Arg Leu Cys Trp Ser Cys Asp Asn His
130          135          140
Leu Arg Glu Gln Thr Thr Glu Arg Leu Ala Gly Ile Ala Met Gln Asn
145          150          155          160
Leu Val Lys Trp Leu Leu Glu Arg Val Asn Ile Asp Leu Gly Phe Ser
165          170          175
Pro Glu His Thr Leu Ser Leu Pro Glu Phe Cys Trp Trp Met Val Arg
180          185          190
Asn Asp Leu Ala Asp Leu Val Pro Glu Ser Val Ala Ser Lys Ala Leu
195          200          205
Arg Ile Lys Pro Glu Gln His Ser Ser Val Met Arg Glu Ser Asp Ile
210          215          220
Val Pro Ser Leu Pro Ala Thr Gln Ile Phe Gln Glu Lys Ala Lys Lys
225          230          235          240
Ile Val Ala Val Lys Val Asp Pro Glu Thr Pro Asp Leu Ser Cys
245          250          255

```

<210> 6383

<211> 177

<212> PRT

<213> Enterobacter cloacae

<400> 6383

```

Arg Cys Ser Asn Thr Val Thr Gln Gln Ser Ala Phe Arg Asn Tyr Gln
1      5      10      15
Arg Lys Asn Asn Met Val Glu Pro Ser Leu Lys Glu Val Val Lys Ala
20     25     30
Met Cys Lys Ala Tyr Pro Gly Gly Arg Glu Ala Met Ala Gly Ala Leu
35     40     45
Gly Met Ser Val Thr Gln Phe Asn Asn Asn Leu Tyr Glu Lys Asn Gly
50     55     60
Cys Arg Phe Phe Glu Val Asn Glu Leu Glu Ala Met Glu Asp Ile Ser
65     70     75     80
Asn Thr Ser Leu Leu Ala Asp Tyr Phe Ala Arg Arg Arg Gly Ala Leu
85     90     95
Leu Val Asp Val Pro Gln Leu Glu Asp Leu Asp Arg Val Asp Leu Phe
100    105    110
Asp Arg Ala Met Arg Thr Ser Ala Ala Arg Gly Arg Val Asp Thr Val
115    120    125
Ile Gln Arg Ala Leu Glu Asp Gly Val Ile Glu Arg His Glu Ala Glu
130    135    140
Glu Ile Asn Glu Tyr His Arg Arg His Leu Ala Ala Arg Glu Glu Glu
145    150    155    160
Ile Arg Ala Ile Val Ala Leu Phe Ser Arg Lys Lys Ser Gln Lys Lys
165    170    175

```

<210> 6384
 <211> 190
 <212> PRT
 <213> Enterobacter cloacae

<400> 6384

```

Gly Trp Asn Leu Gln Ile Gln Leu Gln Glu His Arg Val Gln Gln Ser
1      5      10      15
Pro Gly Gly Leu Gln Arg Ser Glu Leu Met Ser Leu Leu Lys Asp Ile
20      25      30
Gln Ile Phe Ile Ala Ala Asn Pro Gly Leu Thr Asn Lys Glu Ile Ala
35      40      45
Ala Ser Met Pro Gln Tyr Asp Val His Ala Val Gln Arg Gly Val Cys
50      55      60
His Leu Val Lys Leu Asn Arg Ala Thr Arg Gln His Asn Gly Lys Cys
65      70      75      80
Tyr Gln Tyr Phe Ala Lys Ala Pro Gly Gly Glu Val Gly Glu Gly Arg
85      90      95
Ser Ala Leu Lys Ile Asn Arg Ala Asp Lys Pro Ala Val Pro Glu Gln
100     105     110
Glu Glu Gly Leu Asn Pro Ala Val Thr Thr Met Met Asp Lys Ala Gln
115     120     125
Gly Leu Phe Glu Lys Gly Leu Tyr Gln Arg Ala Ala Thr Ile Leu Met
130     135     140
Asp Ala Phe Asn Arg Ser Lys Asn Glu Glu Gln Arg Met Lys Ile Leu
145     150     155     160
Ile Glu Arg Gln Arg Cys Leu Ser Met Ala Pro Lys Val Lys Ala Pro
165     170     175
Ser Asp Ala Trp Cys Leu Ala Gly Arg Ala Arg Asn Val
180     185     190

```

<210> 6385
 <211> 139
 <212> PRT
 <213> Enterobacter cloacae

<400> 6385

```

Met Ala Glu Lys Thr Gly Ser Asp Val Met Lys Leu Val Leu Pro Phe
1      5      10      15
Pro Pro Ser Val Asn Thr Tyr Trp Arg Ala Pro Asn Lys Gly Pro Leu
20      25      30
Lys Gly Arg His Leu Ile Ser Ala Lys Gly Arg Ala Tyr Gln Ser Ala
35      40      45
Ala Cys Val Ala Ile Val Glu Gln Leu Arg Phe Leu Pro Lys Pro Ser
50      55      60
Thr Ala Pro Ala Ala Val Glu Ile Met Leu Tyr Pro Pro Asp Glu Arg
65      70      75      80
Arg Arg Asp Ile Asp Asn Tyr Asn Lys Ala Leu Phe Asp Ala Leu Thr
85      90      95
His Ala Gly Ile Trp Glu Asp Asp Ser Gln Val Gln Arg Met Leu Val
100     105     110
Glu Trp Gly Pro Lys Val Asn Gly Gly Arg Val Glu Ile Ser Ile Thr
115     120     125
Lys His Gln Pro Ala Met Gly Val Met Val
130     135

```

<210> 6386
 <211> 152
 <212> PRT
 <213> Enterobacter cloacae

<400> 6386

```

Ser Glu Ile Arg Arg Pro Val Asn Ala Ala Val Ser Val Phe Arg Ser
1      5      10      15
Cys Ala Gly Asn Arg Arg Ile Ser Met Lys Ser Gly Asp Asn Met Arg
      20      25      30
Asp Ile Gln Met Val Leu Val Arg Trp Gly Asn Trp Ser Lys Tyr Lys
      35      40      45
Ile Glu Ala Asp Val Gly Tyr Ser Pro Ile Ala Ala Gly Phe Lys Gly
      50      55      60
Leu Leu Pro Glu Ser Gly Ala Met Pro Lys Cys Thr Glu Asp Asp Ala
65      70      75      80
Leu Ile Ile Asp Ser Cys Leu Ala Arg Leu Lys Leu Lys Arg Pro Asp
      85      90      95
Glu Tyr Glu Leu Ile Phe Asp His Tyr Val Lys Gly Val Ser Lys Arg
      100     105     110
Gly Ile Gly Arg Lys Leu Lys Leu Ser Glu Gly Met Val Arg Ile Lys
      115     120     125
Phe Gln Met Ala Glu Gly Phe Val Glu Gly Cys Leu Ala Met Leu Asp
      130     135     140
Ile Arg Leu Gln Met Asp Glu
145      150

```

<210> 6387

<211> 312

<212> PRT

<213> Enterobacter cloacae

<400> 6387

```

Arg Thr Thr Met Ser Leu Leu Met Pro Ser Arg Pro Ile Val Ile Asn
1      5      10      15
Pro Asp Leu Ala Tyr Ser Ile Gly Leu Asn Glu Ala Ile Ala Leu Gln
      20      25      30
Gln Val Asn Tyr Trp Leu Lys Glu Thr Thr Ser Gly Leu Glu Arg Asp
      35      40      45
Gly Val Arg Trp Ile Tyr Asn Thr Thr Glu Gln Trp Leu Glu Gln Phe
      50      55      60
Pro Phe Trp Ser Glu Ser Thr Leu Lys Arg Thr Phe Thr Arg Leu Lys
65      70      75      80
Asn Leu Gly Val Leu Lys Val Asp Gln Leu Asn Lys Ser Gln Arg Asp
      85      90      95
Met Thr Asn Tyr Tyr Thr Ile Asn Tyr Glu Ser Glu Leu Leu Asp Glu
      100     105     110
Val Lys Val Thr Lys Ser Lys Ser Ser Lys Cys Thr Leu Pro Ser Gly
      115     120     125
Gln Asn Glu Pro Met Glu Glu Val Lys Val Glu Arg Ser Ile Gly Ser
      130     135     140
Lys Arg Thr Ala Leu Ile Arg Ser Asn Cys Thr Asp Val Leu Thr Glu
145      150     155     160
Asn Thr Thr Glu Asn Thr Thr Asp Ile Lys Lys Pro Ile Cys Pro Val
      165     170     175
Ala Pro Gln Pro Asp Ser Asp Val Leu Ile Thr Asp Gln Ala Lys Gln
      180     185     190
Val Leu Thr His Leu Asn His Val Thr Ser Ser Arg Tyr Gln Val Ser
      195     200     205
Thr Thr Ser Leu Gln Asn Ile Arg Ala Arg Ile Gly Glu Gly Phe Thr
      210     215     220
Val Glu Glu Leu Ser Leu Val Val Asp Tyr Cys Asn Ala Lys Trp Ser
225      230     235     240
Asp Asp Leu Thr Met Ala Ser Tyr Leu Arg Pro Gln Thr Leu Phe Gln
      245     250     255

```

Pro Thr Lys Phe Pro Ala Tyr Leu Lys Ser Ala Thr Asn Trp Ala Asn
 260 265 270
 Ala Gly Arg Pro Ala Arg Val Asn Gly Lys Trp Glu Arg Glu Asp Gly
 275 280 285
 Ile Phe Lys Ser Ser Phe Lys Asn Thr Glu Tyr Ser Lys Val Pro Ala
 290 295 300
 Gly Phe Arg Gly Ala Asn Ser
 305 310

<210> 6388

<211> 125

<212> PRT

<213> Enterobacter cloacae

<400> 6388

Ala Tyr Thr Gly Ser Cys Arg Ser His Glu Lys Thr Ala Gly Ala Arg
 1 5 10 15
 Arg Met Lys Pro Glu Leu Thr Pro Arg Gln Asn Glu Val Phe Glu Ala
 20 25 30
 Ile Lys Val His Ile Glu Lys Ala Gly Phe Pro Pro Thr Met Leu Glu
 35 40 45
 Leu Ala Gly Leu Ile Gly Cys Ala Ser Pro Asn Ala Ala Val Ala His
 50 55 60
 Val Lys Ser Leu Lys Lys Lys Gly Tyr Ile Thr Val Ala Pro Gly Ala
 65 70 75 80
 Ala Arg Gly Ile Thr Val Val Lys Thr Glu Trp Asp Ala Asp Pro Val
 85 90 95
 Thr Ile Ile Lys Gly Leu Leu Ser Gly Gly Asp Lys Ala Arg Asp Asn
 100 105 110
 Ala Val Glu Trp Leu Lys Lys Gln Gly Val Thr Leu
 115 120 125

<210> 6389

<211> 72

<212> PRT

<213> Enterobacter cloacae

<400> 6389

Cys Asn Asn Pro Ala Asp Asp Pro His His Leu Ile Gly His Gly Gln
 1 5 10 15
 Gly Gly Met Gly Thr Lys Ala His Asp Leu Phe Val Ile Pro Leu Cys
 20 25 30
 Arg Ala His His Asp Glu Leu His Ala Asp Pro Val Ala Phe Glu Ala
 35 40 45
 Lys Tyr Gly Asp Gln Leu Thr Leu Leu Phe Arg Phe Leu Asp Arg Ala
 50 55 60
 Leu Ala Ile Gly Val Leu Ala
 65 70

<210> 6390

<211> 482

<212> PRT

<213> Enterobacter cloacae

<400> 6390

Ile Thr Pro Gln Thr Gln Asn Phe Asp Phe Phe Leu Leu Leu Asn Ile
 1 5 10 15
 Ser Ile Ala Ala Ile Val Ala Ala Asn Ala Thr His Leu Thr Pro Val
 20 25 30
 Ile Ser Thr Phe Thr Arg Phe Phe Phe Ala Ser Trp Gly Val Leu Asn
 35 40 45

Leu Gly Ile Ile Trp Arg Leu Asp Glu Leu Met Phe Ile Val Leu Met
 50 55 60
 Leu Asn Leu Leu Tyr Gly Phe Ala Ile Tyr Arg His Ala Leu Thr Ser
 65 70 75 80
 His Ala Phe Phe Ile Gln Gln Ala Leu Leu Glu Glu Lys Ser Ser Arg
 85 90 95
 Leu Ala Glu Gln Phe Arg Gln Ala Lys Glu Asp Ala Glu Gln Ala Leu
 100 105 110
 Leu Asp Lys Asn Gln Phe Leu Thr Thr Ala Ser His Asp Leu Arg Gln
 115 120 125
 Pro Val His Ala Met Gly Phe Leu Ile Glu Ala Ile Leu His Arg Asn
 130 135 140
 Arg Asp Gly Ser Leu Thr Pro Gln Leu Leu Asp Leu Gln Gln Ser Val
 145 150 155 160
 Arg Ser Val His Leu Met Leu Asn Ser Leu Leu Asp Leu Ser Lys Ile
 165 170 175
 Glu Ser Gly Asn Val Leu Ser Ala Pro Thr Lys Val Asp Ile Gly Ala
 180 185 190
 Leu Leu Asp Ser Val Ile Thr Leu Phe Arg Glu Glu Ala Asn Ser Arg
 195 200 205
 Ala Leu Arg Leu Cys Ile Arg Arg Pro Lys Arg His Ile Tyr Val Met
 210 215 220
 Gly Asp Pro Leu Leu Val Arg Gln Ser Leu Ile Asn Leu Ile Gln Asn
 225 230 235 240
 Ala Leu Arg Tyr Thr Leu Gln Gly Gly Val Leu Val Ala Ile Arg Pro
 245 250 255
 Arg Gly Asp Glu Cys Met Val Glu Val Trp Asp Thr Gly Val Gly Ile
 260 265 270
 Ala Asp Glu Glu Lys Gly Lys Ile Phe Ser Pro Tyr Tyr Arg Pro Glu
 275 280 285
 Leu Ala Trp Lys Ile Asp Ser Ala Gly His Gly Leu Gly Leu Ala Val
 290 295 300
 Val Ala Arg Cys Ala Lys Leu Met Lys Val Lys Tyr Gly Met Gln Ser
 305 310 315 320
 Ile Glu Gly Lys Gly Ser Arg Phe Trp Met Arg Phe Thr Gln Tyr Ala
 325 330 335
 Gly Glu Asp Ser Val Leu Asp Thr Pro Ala Ala Asp Asn Thr Ala
 340 345 350
 Thr Pro Val Arg Tyr Ala Pro Leu His Gly Ser Cys Leu Val Val Asp
 355 360 365
 Asp Asp Pro Leu Val Thr Ser Ala Trp Glu Ser Leu Met Ser Val Trp
 370 375 380
 Gly Ile Asp Val Arg Cys Ala Ala Ser Ala Glu Glu Ala Phe Ala Ile
 385 390 395 400
 Ile Asp Asp Gly Phe Thr Pro Phe Ala Val Leu Cys Asp Gln Arg Leu
 405 410 415
 Arg Ser Gly Glu Ser Gly Phe Asp Ile Leu Lys Ala Leu Phe Glu Arg
 420 425 430
 Leu Pro Asp Met Ser Gly Ala Ile Val Ser Gly Glu Phe Asn Ser Pro
 435 440 445
 Val Leu Leu Glu Ala Glu Gln Glu Gly Tyr Leu Val Leu Arg Lys Pro
 450 455 460
 Leu Glu Pro Ala Lys Leu His Ala Leu Leu Thr Gln Trp Leu Gly Cys
 465 470 475 480
 Arg

<210> 6391

<211> 462

<212> PRT

<213> Enterobacter cloacae

<400> 6391

Pro Gly Arg Cys Val Met Ser Glu Met Met Met Pro Cys Ser Tyr Glu
 1 5 10 15
 Ala Glu Gln Ala Val Leu Gly Gly Leu Met Leu Asp Asn Asp Arg Trp
 20 25 30
 Asp Glu Val Ile Leu Gln Ile Ser Pro Glu Asp Leu Phe Ser Arg Pro
 35 40 45
 His Arg Met Val Phe Arg Val Met Ala Glu Leu Ala Gly Glu Gly Leu
 50 55 60
 Pro Leu Asp Leu Ile Thr Ile Thr Glu Arg Leu Glu Asn Arg Gly Asp
 65 70 75 80
 Leu Glu Gln Cys Gly Gly Phe Ala Tyr Leu Ala Glu Met Ser Lys Asn
 85 90 95
 Thr Pro Ser Ala Ala Asn Ile Leu Ala Tyr Ala Gly Val Val Ala Glu
 100 105 110
 Lys Ser Arg Leu Arg Gln Leu Met Thr Val Gly Asn Ser Leu Leu Ser
 115 120 125
 Asp Val Gln Ala Pro Lys Ala Ser Ser Ala Gly Ile Leu Glu Ser Ala
 130 135 140
 Glu Gly Lys Leu Phe Asn Ile Ala Glu Gln Gly Ala Met Gln Leu Asn
 145 150 155 160
 Ser Glu Thr Gly Val Asn Glu Ala Leu Asp Lys Leu Leu Thr Gln Leu
 165 170 175
 Glu Ser Met Ser Ala Ser Asp Gly Leu Thr Gly Thr Pro Thr Gly Phe
 180 185 190
 Ser Glu Leu Asp Ala Met Thr Cys Gly Leu Glu Pro Gly Asp Leu Ala
 195 200 205
 Leu Leu Ala Ala Arg Pro Ser Met Gly Lys Thr Ser Leu Ala Met Ala
 210 215 220
 Ala Cys Thr Ala Ala Val Ser Ala Lys Pro Asp Asp His Val Phe Val
 225 230 235 240
 Phe Ser Leu Glu Met Pro Ser Glu Gln Leu Met Met Arg Leu Leu Ala
 245 250 255
 Met Glu Gly Arg Val Glu Leu Ser Arg Leu Arg Ser Gly Asn Met Asp
 260 265 270
 Asp Glu Asp Trp Ala Arg Val Ser Glu Ala Thr Gly Arg Ile Ile Glu
 275 280 285
 Trp Lys Asn Arg Leu Ile Ile Asp Asp Thr Ser Tyr Gln Thr Pro Ala
 290 295 300
 Thr Leu Arg Ala Arg Ala Arg Arg Tyr Val Arg Lys Tyr Gly Arg Pro
 305 310 315 320
 Ser Leu Ile Met Leu Asp Tyr Leu Gln Leu Val Arg Ser Pro Glu Gln
 325 330 335
 Glu Asn Arg Thr Gln Glu Ile Ala Glu Ile Ser Arg Ser Leu Lys Ala
 340 345 350
 Leu Gly Lys Glu Leu Gly Cys Pro Val Leu Ala Leu Ser Gln Leu Asn
 355 360 365
 Arg Leu Val Glu Gln Arg Ala Asp Lys Arg Pro Asn Asn Gly Asp Leu
 370 375 380
 Arg Asp Ser Gly Ala Leu Glu Gln Asp Ala Asp Leu Ile Met Phe Ile
 385 390 395 400
 Tyr Arg Asp Glu Val Tyr Asn Pro Gly Thr Pro Asp Ala Gly Val Ala
 405 410 415
 Glu Ile Ile Val Gly Lys Gln Arg Gln Gly Pro Thr Gly Thr Val Lys
 420 425 430
 Val Lys Phe Asp Gly Arg Tyr Thr Leu Phe Ser Glu Phe Gln Glu Gly
 435 440 445
 Ser Tyr Asp Phe Gly Tyr Arg Ser Gly Arg Lys Gln Ala
 450 455 460

<210> 6392
 <211> 296
 <212> PRT
 <213> Enterobacter cloacae

<400> 6392

```

Arg Val Cys Lys Met Lys Ile Leu Pro Val Ile Ser Pro Lys Gly Gly
1      5      10      15
Glu Gly Lys Ser Thr Phe Ala Ala Tyr Leu Ala Gly Phe Leu Ala Asp
20      25      30
Ala Gly Leu Asn Thr Leu Leu Val Asp Ala Asp Tyr Ser Gln Pro Thr
35      40      45
Ala Ser Ser Ile Phe Ala Leu Glu Asp Glu Ser Pro Phe Gly Leu Tyr
50      55      60
Glu Leu Leu Met Gln Met Val Ser Asp His Thr Gln Cys Ile Ser Gln
65      70      75      80
Thr Ala Ile Lys Asn Leu Asp Val Ile Tyr Ser Asn Asp Pro Asp Glu
85      90      95
Leu Leu Pro Thr Ala Met Leu His Ala Ala Asp Gly Arg Leu Arg Leu
100     105     110
Arg Asn Ile Leu Gln His Pro Phe Asn Arg Tyr Asp Ala Ile Ile
115     120     125
Val Asp Ser Lys Gly Ala Thr Gly Val Met Thr Glu Leu Ser Leu Leu
130     135     140
Ser Ser Thr Gly Asn Val Met Gly Ile Val Lys Pro Ile Leu Pro Asp
145     150     155     160
Val Arg Glu Phe Ile Arg Gly Ser Leu His Met Leu Thr Arg Leu Lys
165     170     175
Thr Tyr Glu Asn Tyr Gly Ile Arg Leu Pro Asp Ile Ser Ile Leu Val
180     185     190
Asn Cys Ile Glu Asn Thr Leu Leu Asp Arg Glu Ala Met Asp Gly Leu
195     200     205
Ala Ala Ile Ile Asn Glu Lys His Tyr Asp Ala Ser Ala Leu Gly Asn
210     215     220
Arg Asp Val Tyr Arg Leu Leu Asp Thr Arg Ile Glu Ala Leu Asp Ile
225     230     235     240
Phe Lys Leu Gly His Val Lys Gln Gln Pro Val His Arg Leu Glu Tyr
245     250     255
Lys Thr Arg Arg Lys Gly Pro Ala Ala Val Thr Met His Asp Leu
260     265     270
Ala Cys Glu Leu Phe Pro Glu Trp Gln Ser His Phe Ser Asp Val Leu
275     280     285
Thr Arg Glu Val Arg His Val
290     295

```

<210> 6393
 <211> 575
 <212> PRT
 <213> Enterobacter cloacae

<400> 6393

```

Leu Arg Leu Pro Gln Arg Glu Glu Thr Gly Met Ser Arg Lys Ser Ser
1      5      10      15
Asn Val Gly Ala Met Leu Gln Pro Gly Arg Gln Ser Gln Ala Ala
20      25      30
Gly Asn Ile Ser Val Met Pro Ala Ala Glu Met Pro Met Val Leu Thr
35      40      45
Leu Asp Gln Leu Ser Pro Asn Pro Asp Asn Pro Arg Thr Ser Arg Asn
50      55      60
Pro Arg Tyr Asp Asp Ile Lys Ala Ser Ile Arg Ser Arg Gly Leu Asp
65      70      75      80

```

Thr	Val	Pro	Lys	Val	Thr	Arg	Asp	Pro	Asp	Gly	Glu	Pro	Asp	Met	Tyr
				85					90					95	
Ile	Phe	Ser	Asp	Gly	Gly	Asn	Thr	Arg	Tyr	Gln	Ile	Leu	Ser	Glu	Leu
			100					105					110		
Trp	Gln	Glu	Thr	Gly	Glu	Asp	Arg	Phe	Phe	Arg	Val	His	Val	Leu	Phe
		115					120					125			
Lys	Pro	Trp	Pro	Gly	Arg	Leu	Gln	Cys	Val	Ile	Gly	His	Leu	Ala	Glu
	130					135					140				
Asn	Glu	Val	Arg	Gly	Glu	Leu	Ser	Phe	Ile	Glu	Lys	Ala	Gln	Gly	Ile
145					150					155					160
His	Lys	Ala	Arg	Ser	Ile	Tyr	Glu	Glu	Gln	Met	Gly	Lys	Thr	Val	Ser
				165					170					175	
Leu	Arg	Gln	Leu	Ser	Glu	Leu	Leu	Thr	His	Glu	Gly	Leu	Pro	Val	His
			180					185					190		
Tyr	Ser	Thr	Val	Ser	Arg	Met	Glu	Asp	Ala	Leu	Lys	Tyr	Leu	Tyr	Pro
		195				200						205			
Trp	Ile	Pro	Asp	Leu	Leu	Glu	Ser	Gly	Leu	Gly	Arg	Pro	Gln	Ile	Thr
	210					215				220					
Ala	Leu	Leu	Ala	Leu	Arg	His	Asp	Ala	Glu	Arg	Val	Trp	Asp	Glu	Phe
225					230					235					240
Cys	Leu	Ile	Ser	Asp	Thr	Gly	Asp	Lys	Ser	Phe	Ser	Asp	Val	Phe	Gly
				245				250						255	
Gln	Cys	Cys	Gly	Arg	Phe	Asn	Ser	Pro	Glu	Leu	Trp	Ser	Leu	Glu	Met
			260					265					270		
Phe	Arg	Asp	Glu	Leu	Ile	Gly	Asp	Leu	Leu	His	Ala	Leu	Pro	His	Pro
		275					280					285			
Glu	Leu	Asp	Tyr	Asp	Arg	Trp	Met	Met	Glu	Leu	Asp	Pro	Lys	Glu	Arg
	290					295					300				
Asn	Arg	Arg	His	His	Phe	Gly	Asp	Pro	Glu	Pro	Val	Ser	Ile	Pro	Pro
305				310						315					320
Ala	Asn	Ser	Leu	Val	Thr	Ala	Asp	Ser	Ala	Gly	Gln	Ala	Thr	Pro	Ala
				325					330					335	
Gln	Lys	Ser	Val	Glu	Val	Val	Gln	Pro	Phe	Ser	Ser	Pro	Arg	Arg	Glu
			340					345					350		
Ile	Ser	Gly	Glu	Pro	Val	Thr	Pro	Ala	Pro	Asp	Asn	Thr	Pro	Pro	Glu
		355					360					365			
Lys	Leu	Asp	Lys	Gln	His	Pro	Arg	His	Glu	Val	Gln	Pro	Asp	Met	Tyr
	370					375					380				
Gly	Ala	Ala	Pro	Val	Ile	Ser	Gly	Glu	Ser	Ala	Asp	Val	Ser	Gly	Leu
385					390					395					400
Val	Thr	Leu	Ser	Asp	Gly	Tyr	Gly	Glu	Glu	Asn	Gly	Gly	Glu	Glu	Gly
				405					410					415	
Asn	Gly	Glu	Asp	Gly	Leu	Leu	Ser	Leu	Leu	Thr	Pro	Glu	Pro	Glu	Val
				420				425					430		
Val	Leu	Gln	Asp	Asp	Ala	Pro	Val	Thr	Asn	Asp	Ser	Ile	Trp	His	Val
		435					440					445			
Pro	Ala	His	Gln	Asp	Asp	Ile	Glu	His	Leu	Gln	Asn	Thr	Ala	Phe	Arg
	450					455						460			
Leu	Ala	Trp	Glu	Leu	Gly	Glu	Val	Leu	Gly	Cys	Glu	Asp	Glu	Ile	Leu
465					470					475					480
Pro	Gln	Arg	Asp	Asn	Asp	Met	Ser	Ala	Gly	Tyr	Val	Gly	Ala	Gly	Glu
				485					490					495	
Met	Cys	Ser	Glu	Ala	Ala	Ala	Phe	Leu	Leu	Gly	Leu	Thr	Gly	Glu	Ala
			500				505						510		
Pro	Ala	Leu	His	Pro	Ala	Ala	Gly	Val	Cys	Gly	Leu	Pro	Glu	Leu	Phe
		515					520					525			
Thr	Gly	Pro	Gly	Glu	Gly	Glu	Ala	Pro	Ala	Leu	Thr	Asp	Glu	Asp	
	530					535					540				
Ala	Leu	Lys	Leu	Leu	Arg	Leu	Leu	Arg	Val	Met	Arg	Arg	Leu	Arg	Glu
545					550					555					560
Leu	Gln	Arg	Gly	Leu	Thr	Tyr	Gly	Glu	Asp	Asn	Ser	Asp	Glu		

565

570

575

<210> 6394
 <211> 268
 <212> PRT
 <213> Enterobacter cloacae

<400> 6394

Gln	His	Asp	Ser	Leu	Phe	Thr	Leu	Pro	Pro	Tyr	Ala	Gly	Ala	Val	Leu
1			5						10					15	
Ser	Ile	Leu	Thr	Val	Gln	Asn	Gly	Arg	Asp	Gly	Gly	Arg	Lys	Gly	Lys
		20					25						30		
Ile	Met	Ser	Leu	Pro	Ala	Glu	Ser	Leu	Ile	Ala	Tyr	Thr	Leu	Asp	Lys
	35						40					45			
Met	Asn	Ala	Arg	Leu	Ala	Ala	Ser	Pro	Arg	Arg	Asp	Asp	Gly	Arg	Ile
	50					55					60				
Arg	Asn	Gly	Leu	Leu	Phe	Thr	Gly	Asn	Val	His	Asp	Ser	Ile	Pro	Arg
65					70				75					80	
Arg	Leu	Leu	Leu	Asp	Thr	Arg	Leu	Ser	Pro	Leu	Asp	Lys	Met	Gly	Trp
			85						90					95	
Met	Met	Ile	Arg	Leu	Tyr	Ala	Gln	Asn	Asn	Glu	Gly	Ala	Val	Phe	Pro
			100					105					110		
Ser	Tyr	Asp	Glu	Leu	Gln	Leu	Gln	Leu	Ala	Ser	Pro	Gly	Lys	Gly	Lys
		115					120						125		
Ala	Ser	Arg	Glu	Thr	Val	Ser	Arg	Val	Leu	Leu	Met	Leu	Arg	Ile	Thr
	130						135					140			
Gly	Trp	Leu	Ser	Leu	Cys	Lys	Arg	Val	Arg	Asp	Asp	Lys	Gly	Arg	Val
145					150					155					160
Arg	Gly	Asn	Ile	Tyr	Ala	Gln	His	Asp	Glu	Pro	Leu	Thr	Phe	Ser	Asp
			165						170					175	
Ala	Glu	Met	Leu	Asp	Pro	Arg	Phe	Leu	Asp	Val	Val	Ala	Asp	Ala	Cys
			180					185					190		
Leu	Ser	Lys	Asn	Arg	Thr	Ile	Ser	Gln	Asn	Ala	Arg	Glu	Val	Leu	Asp
		195					200					205			
Asp	Ile	Lys	Asn	Asp	Pro	Thr	Met	Arg	His	Tyr	Arg	Ser	His	Leu	Ala
210						215					220				
Leu	Ile	Glu	Ser	Arg	Leu	Asp	Ser	Pro	Gln	Ser	Pro	Ser	Gln	Met	Ala
225					230					235					240
Lys	His	His	His	Arg	Ile	Pro	Cys	Pro	Ala	Pro	Gly	Ser	Glu	Thr	Ala
				245					250					255	
Arg	Leu	His	Tyr	Glu	Met	Arg	Ile	Arg	Thr	Asp	Cys				
		260						265							

<210> 6395
 <211> 285
 <212> PRT
 <213> Enterobacter cloacae

<400> 6395

Thr	Gly	Ser	Arg	Gly	Leu	Pro	Gly	Glu	Lys	Trp	Val	Trp	Leu	Tyr	Leu
1				5					10					15	
Trp	Arg	Arg	Leu	Pro	Arg	Val	Arg	Gln	Gln	Ile	Gln	Pro	Val	Gln	Gln
			20					25					30		
Pro	Pro	His	Arg	Arg	Asp	Gly	Cys	Asp	Gln	Gln	Asn	Gly	Ala	Ala	Pro
		35					40					45			
Met	Ile	Glu	Leu	Val	Ile	Val	Ser	Arg	Leu	Leu	Glu	Tyr	Pro	Asp	Ala
	50					55					60				
Ala	Leu	Val	Gln	His	Gln	Gln	Glu	Leu	Phe	Asp	Ala	Leu	Ala	Ser	Ser
65					70				75					80	
Glu	Asn	Leu	Asp	Lys	Glu	Asp	Ala	Gln	Lys	Leu	Gly	Val	Phe	Leu	Arg
			85						90					95	

Asp Leu Leu Ala Arg Asp Leu Leu Asp Ala Gln Ala Asp Tyr Ser Gln
 100 105 110
 Leu Phe Asp Arg Gly Arg Ala Thr Ser Leu Leu Leu Phe Glu His Val
 115 120 125
 His Gly Glu Ser Arg Asp Arg Gly Gln Ala Met Val Asp Leu Met Ala
 130 135 140
 Gln Tyr Glu Gln His Gly Leu Gln Leu Asp Ser Arg Glu Leu Pro Asp
 145 150 155 160
 His Leu Pro Leu Tyr Leu Glu Tyr Leu Ala Gln Leu Pro Lys Glu Glu
 165 170 175
 Ala Leu Gly Gly Leu Gln Asp Ile Ala Pro Ile Leu Ala Leu Leu Gly
 180 185 190
 Ala Arg Leu Gln Gln Arg Glu Ser Tyr Ala Val Leu Phe Asp Leu
 195 200 205
 Leu Val Lys Leu Ala Asn Ala Ser Val Asp Ser Gln Lys Val Ala Glu
 210 215 220
 Lys Ile Ala Asp Glu Ala Arg Asp Asp Thr Pro Gln Ala Leu Asp Ala
 225 230 235 240
 Val Trp Glu Glu Glu Gln Val Lys Phe Phe Ala Asp Gln Ser Cys Gly
 245 250 255
 Glu Ser Glu Ile Ser Ala His Gln Arg Arg Phe Ala Gly Ala Val Ala
 260 265 270
 Pro Gln Tyr Leu Asn Ile Ser Asn Gly Gly Gln His
 275 280 285

<210> 6396

<211> 519

<212> PRT

<213> Enterobacter cloacae

<400> 6396

Pro Gly Thr Gly Glu Arg Lys Met Lys Ile Arg Ser Gln Val Gly Met
 1 5 10 15
 Val Leu Asn Leu Asp Lys Cys Ile Gly Cys His Thr Cys Ser Val Thr
 20 25 30
 Cys Lys Asn Val Trp Thr Ser Arg Glu Gly Met Glu Tyr Ala Trp Phe
 35 40 45
 Asn Asn Val Glu Ser Lys Pro Gly Thr Gly Phe Pro Thr Asp Trp Glu
 50 55 60
 Asn Gln Glu Lys Trp Lys Gly Gly Trp Ile Arg Lys Ile Asn Gly Lys
 65 70 75 80
 Leu Gln Pro Arg Met Gly Asn Arg Ala Met Leu Leu Gly Lys Ile Phe
 85 90 95
 Ala Asn Pro His Leu Pro Gly Ile Asp Asp Tyr Tyr Glu Pro Phe Asp
 100 105 110
 Tyr Asp Tyr Gln Asn Leu His Asn Ala Pro Glu Ser Lys His Gln Pro
 115 120 125
 Ile Ala Arg Pro Arg Ser Leu Ile Thr Gly Gln Arg Met Asp Lys Ile
 130 135 140
 Thr Ser Gly Pro Asn Trp Glu Glu Ile Leu Gly Gly Glu Phe Glu Lys
 145 150 155 160
 Arg Ala Lys Asp Gln Asn Phe Glu Asn Met Gln Lys Ala Met Tyr Gly
 165 170 175
 Gln Phe Glu Asn Thr Phe Met Met Tyr Leu Pro Arg Leu Cys Glu His
 180 185 190
 Cys Leu Asn Pro Ala Cys Val Ala Thr Cys Pro Ser Gly Ala Ile Tyr
 195 200 205
 Lys Arg Glu Glu Asp Gly Ile Val Leu Ile Asp Gln Asp Lys Cys Arg
 210 215 220
 Gly Trp Arg Met Cys Ile Thr Gly Cys Pro Tyr Lys Lys Ile Tyr Phe
 225 230 235 240

Asn Trp Lys Ser Gly Lys Ser Glu Lys Cys Ile Phe Cys Tyr Pro Arg
 245 250 255
 Ile Glu Ala Gly Met Pro Thr Val Cys Ser Glu Ser Cys Val Gly Arg
 260 265 270
 Ile Arg Tyr Leu Gly Val Leu Leu Tyr Asp Ala Asp Ala Ile Glu Asn
 275 280 285
 Ala Ala Ser Thr Glu Asn Glu Lys Asp Leu Tyr Gln Arg Gln Leu Asp
 290 295 300
 Val Phe Leu Asp Pro Asn Asp Pro Lys Val Ile Glu Gln Ala Leu Lys
 305 310 315 320
 Asp Gly Ile Pro Gln Ser Val Ile Asp Ala Ala Gln Gln Ser Pro Val
 325 330 335
 Tyr Lys Met Ala Met Asp Trp Lys Leu Ala Leu Pro Leu His Pro Glu
 340 345 350
 Tyr Arg Thr Leu Pro Met Val Trp Tyr Val Pro Pro Leu Ser Pro Ile
 355 360 365
 Gln Ser Ala Ala Asp Ala Gly Glu Leu Gly Ser Asn Gly Ile Leu Pro
 370 375 380
 Asp Val Glu Ser Leu Arg Ile Pro Val Gln Tyr Leu Ala Asn Leu Leu
 385 390 395 400
 Thr Ala Gly Asp Thr Gln Pro Val Leu Leu Ala Leu Lys Arg Met Leu
 405 410 415
 Ala Met Arg His Phe Lys Arg Ala Glu Thr Val Asp Gly Val Asn Asp
 420 425 430
 Thr Arg Ala Leu Glu Glu Val Gly Leu Thr Glu Ala Gln Ala Gln Glu
 435 440 445
 Met Tyr Arg Tyr Leu Ala Ile Ala Asn Tyr Glu Asp Arg Phe Val Val
 450 455 460
 Pro Ser Ser His Arg Glu Leu Ala Arg Glu Ala Phe Pro Glu Lys Ser
 465 470 475 480
 Gly Cys Gly Phe Thr Phe Gly Asp Gly Cys His Gly Ser Asp Ser Lys
 485 490 495
 Phe Asn Leu Phe Asn Ser Arg Arg Ile Asp Ala Met Asp Val Thr Ser
 500 505 510
 Lys Thr Glu Pro His Gln
 515

<210> 6397

<211> 1280

<212> PRT

<213> Enterobacter cloacae

<220>

<221> UNSURE

<222> (516)

<400> 6397

Ser Leu Ser Ile Leu Thr Ile Phe His Ser Val Thr Phe Ala Ala Asn
 1 5 10 15
 Gln Gln Cys Arg Phe Arg Glu Pro Gln Ala Pro His Arg Arg Tyr Pro
 20 25 30
 Met Ser Lys Phe Leu Asp Arg Phe Arg Tyr Phe Lys Gln Lys Gly Glu
 35 40 45
 Thr Phe Ala Asp Gly His Gly Gln Val Leu Asp Thr Asn Arg Asp Trp
 50 55 60
 Glu Asp Gly Tyr Arg Gln Arg Trp Gln His Asp Lys Val Val Arg Ser
 65 70 75 80
 Thr His Gly Val Asn Cys Thr Gly Ser Cys Ser Trp Lys Ile Phe Val
 85 90 95
 Lys Asn Gly Leu Val Thr Trp Glu Met Gln Gln Thr Asp Tyr Pro Arg
 100 105 110

Thr	Arg	Pro	Asp	Met	Pro	Asn	His	Glu	Pro	Arg	Gly	Cys	Pro	Arg	Gly
		115					120					125			
Ala	Ser	Tyr	Ser	Trp	Tyr	Leu	Tyr	Ser	Ala	Asn	Arg	Leu	Lys	Tyr	Pro
		130				135					140				
Leu	Met	Arg	Lys	Arg	Leu	Met	Lys	Met	Trp	Arg	Glu	Ala	Lys	Val	Gln
145					150					155				160	
His	Ser	Asp	Pro	Val	Asp	Ala	Trp	Ala	Ser	Ile	Ile	Glu	Asp	Ala	Asp
				165					170					175	
Lys	Ala	Lys	Ser	Phe	Lys	Gln	Ala	Arg	Gly	Arg	Gly	Gly	Phe	Val	Arg
			180					185					190		
Ser	Ser	Trp	Lys	Glu	Val	Asn	Glu	Leu	Ile	Ala	Ala	Ser	Asn	Val	Tyr
		195				200						205			
Thr	Val	Lys	Thr	Tyr	Gly	Pro	Asp	Arg	Val	Ala	Gly	Phe	Ser	Pro	Ile
	210				215						220				
Pro	Ala	Met	Ser	Met	Val	Ser	Tyr	Ala	Ser	Gly	Ala	Arg	Tyr	Leu	Ser
225					230					235				240	
Leu	Ile	Gly	Gly	Thr	Cys	Leu	Ser	Phe	Tyr	Asp	Trp	Tyr	Cys	Asp	Leu
				245					250					255	
Pro	Pro	Ala	Ser	Pro	Gln	Thr	Trp	Gly	Glu	Gln	Thr	Asp	Val	Pro	Glu
		260						265					270		
Ser	Ala	Asp	Trp	Tyr	Asn	Ser	Ser	Tyr	Ile	Ile	Ala	Trp	Gly	Ser	Asn
		275					280					285			
Val	Pro	Gln	Thr	Arg	Thr	Pro	Asp	Ala	His	Phe	Phe	Thr	Glu	Val	Arg
	290				295						300				
Tyr	Lys	Gly	Thr	Lys	Thr	Val	Ala	Val	Thr	Pro	Asp	Tyr	Ala	Glu	Ile
305					310					315				320	
Ala	Lys	Leu	Cys	Asp	Leu	Trp	Leu	Ala	Pro	Lys	Gln	Gly	Thr	Asp	Ala
				325					330					335	
Ala	Met	Ala	Leu	Ala	Met	Gly	His	Val	Met	Leu	Arg	Glu	Phe	His	Leu
			340					345					350		
Asp	Lys	Pro	Ser	Gln	Tyr	Phe	Thr	Asp	Tyr	Val	Arg	Arg	Tyr	Thr	Asp
		355					360					365			
Met	Pro	Met	Leu	Val	Met	Leu	Glu	Glu	Arg	Asp	Gly	Tyr	Tyr	Ala	Ala
		370				375					380				
Gly	Arg	Met	Leu	Arg	Ala	Ala	Asp	Leu	Val	Asp	Ala	Leu	Gly	Gln	Glu
385					390					395					400
Asn	Asn	Pro	Glu	Trp	Lys	Thr	Val	Ala	Cys	Asn	Ser	Asn	Gly	Glu	Leu
				405					410					415	
Val	Ala	Pro	Asn	Gly	Ser	Ile	Gly	Phe	Arg	Trp	Gly	Glu	Lys	Gly	Lys
			420					425					430		
Trp	Asn	Leu	Glu	Gln	Arg	Asn	Gly	Thr	Thr	Gly	Glu	Glu	Thr	Glu	Leu
		435					440					445			
Arg	Leu	Ser	Met	Leu	Gly	Ser	Gln	Asp	Glu	Ile	Ala	Asp	Val	Gly	Phe
		450				455					460				
Pro	Tyr</														

		595				600				605				
His	Tyr	Val	Gly	Gln	Glu	Lys	Leu	Arg	Pro	Gln	Thr	Gly	Trp	Gln
610						615					620			
Leu	Ala	Phe	Ala	Leu	Asp	Trp	Gln	Arg	Pro	Ala	Arg	His	Met	Asn
625					630					635				640
Thr	Ser	Tyr	Phe	Tyr	Asn	His	Ser	Ser	Gln	Trp	Arg	Tyr	Glu	Thr
				645					650					655
Thr	Ala	Gln	Glu	Leu	Leu	Ser	Pro	Met	Ala	Asp	Lys	Ser	Arg	Tyr
			660					665					670	
Gly	His	Leu	Ile	Asp	Phe	Asn	Val	Arg	Ala	Glu	Arg	Met	Gly	Trp
		675					680					685		
Pro	Ser	Ala	Pro	Gln	Leu	Gly	Thr	Asn	Pro	Leu	Arg	Ile	Ala	Glu
		690				695					700			
Ala	Lys	Lys	Ala	Gly	Met	Ser	Pro	Val	Asp	Tyr	Thr	Val	Lys	Ser
705					710				715					720
Lys	Asp	Gly	Ser	Ile	Arg	Phe	Ala	Ala	Glu	Gln	Pro	Glu	Asn	Gly
				725					730					735
Asn	His	Pro	Arg	Asn	Leu	Phe	Ile	Trp	Arg	Ser	Asn	Leu	Leu	Gly
			740					745					750	
Ser	Gly	Lys	Gly	His	Glu	Tyr	Met	Leu	Lys	Tyr	Leu	Leu	Gly	Thr
		755					760					765		
Asn	Gly	Ile	Gln	Gly	Lys	Asp	Leu	Gly	Lys	Gln	Gly	Gly	Val	Lys
		770				775					780			
Glu	Glu	Val	Glu	Trp	Lys	Asp	Asn	Gly	Leu	Asp	Gly	Lys	Leu	Asp
785					790					795				800
Val	Val	Thr	Leu	Asp	Phe	Arg	Leu	Ser	Ser	Thr	Cys	Leu	Tyr	Ser
				805					810					815
Ile	Val	Leu	Pro	Thr	Ala	Thr	Trp	Tyr	Glu	Lys	Asp	Asp	Met	Asn
			820					825					830	
Ser	Asp	Met	His	Pro	Phe	Ile	His	Pro	Leu	Ser	Ala	Ala	Val	Asp
		835					840					845		
Ala	Trp	Glu	Ser	Lys	Ser	Asp	Trp	Glu	Ile	Tyr	Lys	Asp	Ile	Ala
		850				855					860			
Lys	Phe	Ser	Glu	Val	Cys	Val	Gly	His	Leu	Gly	Lys	Glu	Thr	Asp
865					870				875					880
Val	Thr	Leu	Pro	Ile	Gln	His	Asp	Ser	Ala	Ala	Glu	Leu	Ala	Gln
				885					890					895
Leu	Asp	Val	Lys	Asp	Trp	Lys	Lys	Gly	Glu	Cys	Asp	Leu	Ile	Pro
			900					905					910	
Val	Thr	Ala	Pro	His	Ile	Ile	Pro	Val	Glu	Arg	Asp	Tyr	Pro	Ala
		915					920					925		
Tyr	Glu	Arg	Phe	Thr	Ser	Ile	Gly	Pro	Leu	Met	Glu	Lys	Ile	Gly
		930				935					940			
Gly	Gly	Lys	Gly	Ile	Ala	Trp	Asn	Thr	Gln	Ser	Glu	Met	Asp	Leu
945					950				955					960
Arg	Lys	Leu	Asn	Tyr	Thr	Lys	Ala	Asp	Gly	Pro	Ala	Lys	Gly	Gln
				965					970					975
Met	Leu	Asn	Thr	Ala	Ile	Asp	Ala	Ala	Glu	Met	Ile	Leu	Thr	Leu
			980				985					990		
Pro	Glu	Thr	Asn	Gly	His	Val	Ala	Val	Lys	Ala	Trp	Ala	Ala	Leu
		995					1000					1005		
Glu	Phe	Thr	Gly	Arg	Asp	His	Thr	His	Leu	Ala	Lys	Asn	Lys	Glu
		1010				1015					1020			
Glu	Lys	Ile	Arg	Phe	Arg	Asp	Ile	Gln	Ala	Gln	Pro	Arg	Lys	Ile
1025					1030				1035					1040
Ser	Ser	Pro	Thr	Trp	Ser	Gly	Leu	Glu	Asp	Glu	His	Val	Ser	Tyr
				1045					1050					1055
Ala	Gly	Tyr	Thr	Asn	Val	His	Glu	Leu	Ile	Pro	Trp	Arg	Thr	Leu
			1060				1065					1070		
Gly	Arg	Gln	Ser	Leu	Tyr	Gln	Asp	His	Gln	Trp	Met	Arg	Asp	Phe
		1075				1080						1085		

Glu Ser Leu Leu Val Tyr Arg Pro Pro Ile Asp Thr Arg Ser Val Lys
 1090 1095 1100
 Ala Val Met Gly Ala Lys Ser Asn Gly Asn Pro Glu Lys Ala Leu Asn
 1105 1110 1115 1120
 Phe Leu Thr Pro His Gln Lys Trp Gly Ile His Ser Thr Tyr Ser Asp
 1125 1130 1135
 Asn Leu Leu Met Leu Thr Leu Ser Arg Gly Gly Pro Ile Val Trp Met
 1140 1145 1150
 Ser Glu Ala Asp Ala Lys Asp Leu Gly Ile Glu Asp Asn Asp Trp Ile
 1155 1160 1165
 Glu Val Phe Asn Ser Asn Gly Ala Leu Thr Ala Arg Ala Val Val Ser
 1170 1175 1180
 Gln Arg Val Pro Ala Gly Met Thr Met Met Tyr His Ala Gln Glu Arg
 1185 1190 1195 1200
 Ile Val Asn Leu Pro Gly Ser Glu Ile Thr Glu Gln Arg Gly Gly Ile
 1205 1210 1215
 His Asn Ser Val Thr Arg Ile Thr Pro Lys Pro Thr His Met Ile Gly
 1220 1225 1230
 Gly Tyr Ala Gln Leu Ala Tyr Gly Phe Asn Tyr Tyr Gly Thr Val Gly
 1235 1240 1245
 Ser Asn Arg Asp Glu Phe Val Val Val Arg Lys Met Lys Asn Ile Asn
 1250 1255 1260
 Trp Leu Asp Gly Glu Gly Asn Asp Gln Val Gln Glu Ser Val Lys
 1265 1270 1275 1280

<210> 6398

<211> 91

<212> PRT

<213> Enterobacter cloacae

<220>

<221> UNSURE

<222> (69)

<220>

<221> UNSURE

<222> (86)

<220>

<221> UNSURE

<222> (87)

<400> 6398

Arg Arg Thr Ala Leu Met His Phe Leu Asn Met Phe Phe Phe Asp Ile
 1 5 10 15
 Tyr Pro Tyr Ile Ala Gly Thr Val Phe Leu Val Gly Ser Trp Leu Arg
 20 25 30
 Tyr Asp Tyr Gly Gln Tyr Thr Trp Arg Ala Ala Ser Ser Gln Met Leu
 35 40 45
 Asp Arg Lys Gly Met Asn Leu Ala Ser Asn Leu Phe His Ile Gly Ile
 50 55 60
 Leu Gly Ile Phe Xaa Arg Ser Leu Pro Gly Ala Leu Thr Pro His Trp
 65 70 75 80
 Tyr Ser His Pro Ala Xaa Xaa Glu Leu Gln Ser
 85 90

<210> 6399

<211> 299

<212> PRT

<213> Enterobacter cloacae

<400> 6399

Tyr Ala Ala Leu Glu Asn Arg Ala Gly Glu Gly Gly Met Ile Trp His
 1 5 10 15
 Leu Phe Phe Gln Pro Phe Ile Glu Tyr Gly Phe Met Arg Arg Ala Leu
 20 25 30
 Val Val Cys Leu Ala Leu Ser Val Ser Thr Thr Ala Leu Gly Val Phe
 35 40 45
 Leu Gln Leu Arg Arg Met Ser Leu Met Gly Asp Ala Leu Ser His Ala
 50 55 60
 Ile Leu Pro Gly Val Ala Val Gly Tyr Leu Leu Ser Gly Met Ser Leu
 65 70 75 80
 Leu Ala Met Thr Val Gly Gly Phe Ile Ala Gly Ile Ala Val Ala Leu
 85 90 95
 Val Ala Gly Leu Val Ser Arg Arg Thr Pro Leu Lys Glu Asp Ala Ser
 100 105 110
 Phe Ala Gly Phe Tyr Leu Gly Ser Leu Ala Leu Gly Val Thr Leu Val
 115 120 125
 Ser Leu Arg Gly Ser Asn Val Asp Leu Leu His Leu Leu Phe Gly Ser
 130 135 140
 Ile Leu Ala Val Asp Ser Ala Ser Ala Leu Phe Val Thr Gly Val Cys
 145 150 155 160
 Met Phe Thr Leu Leu Thr Leu Ala Ile Phe Tyr Arg Gly Leu Val Ser
 165 170 175
 Glu Ala Phe Asp Thr Ala Trp Leu Gln Val Asn Ala Arg Trp Leu Pro
 180 185 190
 Gly Met Leu His Gly Leu Phe Leu Ala Leu Leu Val Leu Asn Leu Val
 195 200 205
 Ala Gly Phe Gln Val Leu Gly Thr Leu Met Ala Val Gly Leu Met Met
 210 215 220
 Leu Pro Ala Val Ala Ala Arg Cys Trp Val Arg Thr Leu Pro Gly Leu
 225 230 235 240
 Leu Leu Met Ala Gly Ile Ser Gly Ile Phe Cys Ala Trp Leu Gly Leu
 245 250 255
 Ser Leu Ser Trp Ala Val Ser Leu Pro Ala Gly Pro Ser Ile Val Leu
 260 265 270
 Thr Ala Ser Ala Leu Phe Phe Ile Ser Val Leu Phe Gly Thr Arg Ser
 275 280 285
 Arg Leu Ala Asp Ser Leu Arg Ala Leu Phe
 290 295

<210> 6400

<211> 211

<212> PRT

<213> Enterobacter cloacae

<400> 6400

Asn Lys Arg Leu Ser Gly Arg Cys Ala Arg Ile Gly Phe Phe Leu Lys
 1 5 10 15
 Pro Pro Arg Lys Thr Arg Arg Ala Ser Pro Tyr Leu Met Arg Lys Cys
 20 25 30
 Tyr Leu Val Leu His Val Phe Leu Arg Pro Gly Ala Arg Met Thr Asp
 35 40 45
 His Glu Leu Met Gln Leu Ser Glu Val Val Gly Leu Ala Leu Lys Gln
 50 55 60
 Arg Gly Ala Thr Leu Thr Thr Ala Glu Ser Cys Thr Gly Gly Trp Val
 65 70 75 80
 Ala Lys Ala Ile Thr Asp Ile Ala Gly Ser Ser Ala Trp Phe Glu Arg
 85 90 95
 Gly Phe Val Thr Tyr Ser Asn Glu Ala Lys Ala Gln Met Ile Gly Val
 100 105 110
 Arg Glu Ala Thr Leu Glu Gln His Gly Ala Val Ser Glu Pro Val Val

115 120 125
 Ile Glu Met Ala Ile Gly Ala Leu Lys Glu Ala Arg Ala Asp Tyr Ala
 130 135 140
 Ile Ser Ile Ser Gly Ile Ala Gly Pro Asp Gly Gly Ser Asp Val Lys
 145 150 155 160
 Pro Val Gly Thr Val Trp Phe Gly Phe Ala Thr Ser Lys Gly Glu Gly
 165 170 175
 Ile Thr Arg Arg Glu Cys Phe Ser Gly Asp Arg Glu Ser Val Arg Arg
 180 185 190
 Gln Ala Thr Glu Tyr Ala Leu Lys Thr Leu Trp Gln Gln Phe Leu Gln
 195 200 205
 Asn Thr
 210

<210> 6401

<211> 196

<212> PRT

<213> Enterobacter cloacae

<400> 6401

Leu Asp Phe Arg Ile Ile Met Ser Lys Ser Thr Ala Glu Ile Arg Gln
 1 5 10 15
 Ala Phe Leu Asp Phe Phe His Ser Lys Gly His Gln Val Val Ala Ser
 20 25 30
 Ser Ser Leu Val Pro Asn Asn Asp Pro Thr Leu Leu Phe Thr Asn Ala
 35 40 45
 Gly Met Asn Gln Phe Lys Asp Val Phe Leu Gly Leu Asp Lys Arg Asn
 50 55 60
 Tyr Ser Arg Ala Thr Thr Ser Gln Arg Cys Val Arg Ala Gly Gly Lys
 65 70 75 80
 His Asn Asp Leu Glu Asn Val Gly Tyr Thr Ala Arg His His Thr Phe
 85 90 95
 Phe Glu Met Leu Gly Asn Phe Ser Phe Gly Asp Tyr Phe Lys His Asp
 100 105 110
 Ala Ile Gln Tyr Ala Trp Glu Leu Leu Thr Gly Glu Asn Trp Phe Asn
 115 120 125
 Leu Pro Lys Glu Arg Leu Trp Val Thr Val Tyr Glu Thr Asp Asp Glu
 130 135 140
 Ala Phe Asp Ile Trp Glu Lys Glu Val Gly Ile Pro Arg Glu Arg Ile
 145 150 155 160
 Ile Arg Ile Gly Asp Asn Lys Gly Ala Pro Tyr Ala Ser Asp Asn Phe
 165 170 175
 Trp Gln Met Gly Asp Thr Gly Pro Val Phe Tyr His Gly Ala Gly Arg
 180 185 190
 Ile Arg Ala
 195

<210> 6402

<211> 253

<212> PRT

<213> Enterobacter cloacae

<400> 6402

Asp Ile His Val Pro Val Phe Ser Leu Ile Leu Ala Ser Ala Ala Ala
 1 5 10 15
 Gly Ala Gly Ala His Ser Val Ser Arg Pro Gly Arg Ala Leu Gly Gly
 20 25 30
 Gly Val Ala Met Ile Val Met Asn Asp Leu Val Ala Gly Tyr Asp Arg
 35 40 45
 Gln Pro Val Thr Arg Ala Leu Ser Gly Val Ile Glu Arg Gly Ser Met
 50 55 60

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Thr Ala Ile Val Gly Ala Asn Gly Cys Gly Lys Ser Thr Leu Leu Lys
65              70              75              80
Thr Leu Ala Gly Phe Leu Pro Pro Val Ser Gly Thr Phe Arg Trp Gln
85              90              95
Gly Arg Arg Pro Val Val Gly Trp Leu Ala Gln Arg His Ala Leu Glu
100            105            110
Ala Gln Phe Pro Leu Thr Val Gln Asp Val Val Ser Met Gly Cys Trp
115            120            125
Pro Ala Ile Ser Leu Phe Ala Gly Phe Arg Arg Asp Ala Arg Met Arg
130            135            140
Ile Ala Gly Ala Leu Glu Arg Val Gly Leu Glu Ser Met Ala Phe Ser
145            150            155
Thr Ile Asp Glu Leu Ser Gly Gly Gln Phe Gln Arg Met Leu Phe Ala
165            170            175
Arg Val Leu Val Gln Gln Ala Pro Leu Val Met Leu Asp Glu Pro Phe
180            185            190
Thr Gly Val Asp Glu Ala Thr Cys Asn Val Leu Met Asp Leu Met Leu
195            200            205
Glu Met Tyr Met Gln Gly Gln Thr Leu Leu Ala Val Leu His Asp Ser
210            215            220
Glu Arg Val Ser Arg His Phe Pro Gln Thr Leu Arg Leu Asp Ala Asp
225            230            235            240
Thr Pro His Trp Lys Thr Glu Arg Val Arg Val Ala
245            250

```

<210> 6403

<211> 172

<212> PRT

<213> Enterobacter cloacae

<400> 6403

```

Ile Asp Arg Phe Phe Met Ser Glu Pro Thr Ser Arg Arg Pro Ala Tyr
1              5              10              15
Ser Arg Leu Leu Asp Arg Ala Val Arg Ile Leu Ala Val Arg Asp His
20            25            30
Ser Glu Gln Glu Leu Arg Arg Lys Leu Ser Ala Pro Val Met Ser Lys
35            40            45
Asn Gly Pro Glu Asp Ile Asp Ala Thr Ala Glu Asp Tyr Asp Arg Val
50            55            60
Val Ala Trp Cys Tyr Glu His His Tyr Leu Asp Asp Gly Arg Phe Ala
65            70            75            80
Ala Arg Phe Leu Ala Ser Arg Gly Arg Lys Gly Tyr Gly Pro Ala Arg
85            90            95
Ile Arg Gln Glu Leu Asn Gln Lys Gly Val Ala Arg Glu Ser Ile Glu
100           105           110
Lys Ala Met Arg Glu Ser Glu Ile Asp Trp Cys Glu Leu Ala Arg Glu
115           120           125
Gln Ala Val Arg Lys Tyr Gly Glu Pro Leu Pro Arg Glu Phe Ser Glu
130           135           140
Lys Val Lys Ile Gln Arg Phe Leu Leu Tyr Arg Gly Phe Leu Met Glu
145           150           155           160
Asp Ile Gln Asp Ile Trp Arg Asn Phe Thr Asp
165           170

```

<210> 6404

<211> 304

<212> PRT

<213> Enterobacter cloacae

<400> 6404

```

Pro Ala Gly Ala Phe Leu Thr Gln Gly Glu Thr Met Lys Arg Thr Gly

```

```

1           5           10           15
Leu Ala Val Ala Leu Ala Leu Gly Met Met Thr His Gly Val Met Ala
20           25           30
Lys Thr Leu Asn Val Val Thr Ser Phe Ser Ile Leu Gly Asp Ile Thr
35           40           45
Gln Gln Val Gly Gly Asp Arg Val Lys Val Thr Thr Leu Val Gly Pro
50           55           60
Asp Gly Asp Pro His Thr Phe Glu Pro Ser Pro Lys Asp Ser Ala Ala
65           70           75           80
Leu Ser Lys Ala Asp Val Val Val Val Asn Gly Leu Gly Leu Glu Gly
85           90           95
Trp Leu Asp Arg Leu Val Lys Ala Ser Gly Phe Lys Gly Gln Leu Val
100          105          110
Val Ala Ser Asp Gly Val Lys Thr His Thr Leu Glu Glu Asp Gly Lys
115          120          125
Thr Val Thr Asp Pro His Ala Trp Asn Ser Ala Ala Asn Gly Ala Leu
130          135          140
Tyr Ala Gln Asn Ile Leu Ser Gly Leu Val Lys Ala Asp Pro Glu Asp
145          150          155          160
Thr Ala Ala Leu Glu Ala Thr Gly Lys Pro Tyr Ile Ala Gln Leu Ser
165          170          175
Gln Leu Asp Gly Trp Ala Lys Lys Arg Phe Ser Asp Ile Pro Gln Ala
180          185          190
Lys Arg Lys Val Leu Thr Ser His Asp Ala Phe Gly Tyr Phe Ser Arg
195          200          205
Ala Tyr Gly Val Thr Phe Met Ala Pro Gln Gly Leu Ser Ser Glu Ser
210          215          220
Glu Ala Ser Ala Ala Gln Val Ala Glu Ile Ile Asn Gln Ile Lys Ala
225          230          235          240
Asp Gly Val Lys Thr Trp Phe Met Glu Asn Gln Leu Asp Pro Arg Leu
245          250          255
Val Lys Gln Ile Ala Thr Ala Thr Gly Ala Gln Pro Gly Gly Glu Leu
260          265          270
Tyr Pro Glu Ala Leu Ser Ala Lys Gly Gly Val Ala Asp Thr Tyr Val
275          280          285
Lys Ala Phe Arg His Asn Val Asp Thr Leu Ala Asn Ser Met Lys
290          295          300

```

<210> 6405

<211> 365

<212> PRT

<213> Enterobacter cloacae

<400> 6405

```

Ser Ala Val Ala Ser Pro Gly Met Thr Gly Val Ile Met Ala Ile Asp
1           5           10           15
Glu Asn Lys Gln Lys Ala Leu Ala Ala Leu Gly Gln Ile Glu Lys
20           25           30
Gln Phe Gly Lys Gly Ser Ile Met Arg Leu Gly Glu Asp Arg Ser Met
35           40           45
Asp Val Glu Thr Ile Ser Thr Gly Ser Leu Ser Leu Asp Ile Ala Leu
50           55           60
Gly Ala Gly Gly Leu Pro Met Gly Arg Ile Val Glu Ile Tyr Gly Pro
65           70           75           80
Glu Ser Ser Gly Lys Thr Thr Leu Thr Leu Gln Val Val Ala Ala Ala
85           90           95
Gln Arg Glu Gly Lys Thr Cys Ala Phe Ile Asp Ala Glu His Ala Leu
100          105          110
Asp Pro Val Tyr Ala Arg Lys Leu Gly Val Asp Ile Asp Asn Leu Leu
115          120          125
Cys Ser Gln Pro Asp Thr Gly Glu Gln Ala Leu Glu Ile Cys Asp Ala

```

130 135 140
 Leu Ala Arg Ser Gly Ala Val Asp Val Ile Ile Val Asp Ser Val Ala
 145 150 155 160
 Ala Leu Thr Pro Lys Ala Glu Ile Glu Gly Glu Ile Gly Asp Ser His
 165 170 175
 Met Gly Leu Ala Ala Arg Met Met Ser Gln Ala Met Arg Lys Leu Ala
 180 185 190
 Gly Asn Leu Lys Gln Ser Asn Thr Leu Leu Ile Phe Ile Asn Gln Ile
 195 200 205
 Arg Met Lys Ile Gly Val Met Phe Gly Asn Pro Glu Thr Thr Thr Gly
 210 215 220
 Gly Asn Ala Leu Lys Phe Tyr Ala Ser Val Arg Leu Asp Ile Arg Arg
 225 230 235 240
 Ile Gly Ala Val Lys Glu Gly Asp Asn Val Val Gly Ser Glu Thr Arg
 245 250 255
 Val Lys Val Val Lys Asn Lys Ile Ala Ala Pro Phe Lys Gln Ala Glu
 260 265 270
 Phe Gln Ile Leu Tyr Gly Glu Gly Ile Asn Phe Leu Gly Glu Leu Val
 275 280 285
 Asp Leu Gly Val Lys Glu Lys Leu Ile Glu Lys Ala Gly Ala Trp Tyr
 290 295 300
 Ser Tyr Asn Gly Asp Lys Ile Gly Gln Gly Lys Ala Asn Ala Ile Ser
 305 310 315 320
 Trp Leu Lys Glu Asn Pro Ala Ala Ala Lys Glu Ile Glu Lys Lys Val
 325 330 335
 Arg Glu Leu Leu Leu Asn Asn Gln Asp Ser Lys Pro Asp Phe Val Val
 340 345 350
 Asp Gly Ala Asp Ala Glu Glu Thr Asn Glu Asp Phe
 355 360 365

<210> 6406

<211> 80

<212> PRT

<213> Enterobacter cloacae

<400> 6406

Pro Phe Leu Gly Phe Val Ala Arg Leu Val Arg Ser Ala Met Leu Val
 1 5 10 15
 Leu Leu Cys Val Asp Phe Phe Arg Ser Ala Arg Ala Cys Gly Leu Pro
 20 25 30
 Gly Trp Phe Phe Val Leu Arg Phe Ala Phe Pro Phe Ala Leu Ile Pro
 35 40 45
 Ser Phe Ser Val Leu Gly Leu Ala Leu Gly Asp Leu Leu Phe Gly Ala
 50 55 60
 Val Leu Ser Glu Thr Val Phe Ala Trp Pro Gly Met Gly Ala Trp Val
 65 70 75 80

<210> 6407

<211> 110

<212> PRT

<213> Enterobacter cloacae

<400> 6407

Phe Asn Phe Lys Val Asn Tyr Tyr Gly Gly Thr Met Ile His Ser Phe
 1 5 10 15
 Lys Asp Arg Arg Leu Glu Lys Phe Phe Arg Asn Gly Lys Thr Thr Ala
 20 25 30
 Gly Ile Pro Ser Glu Ile Ile Asn Ala Ile Leu Cys Arg Leu Glu Thr
 35 40 45
 Leu Asp Asn Val Gln Ser Glu Arg Glu Leu Leu Ser Asn Ser Leu Arg
 50 55 60

Tyr Glu Arg Leu Arg Met Thr Ser Asn Arg Tyr Ser Ser Ile Arg Val
 65 70 75 80
 Asn Ser Lys Tyr Arg Leu Phe Phe Glu Trp Asn Asp Gly Ala His Asn
 85 90 95
 Val His Leu Ser Ala His Asp Tyr Lys Ser Leu Ile His
 100 105 110

<210> 6408

<211> 420

<212> PRT

<213> Enterobacter cloacae

<400> 6408

Gly Trp Leu Met Ser Thr Ile Ser Thr Asp Leu Ile Ala Arg Ile Tyr
 1 5 10 15
 Ala Ala Ser Glu Leu Pro Leu Ser Asn Asp Glu Leu Tyr Arg Glu Val
 20 25 30
 Gln Arg Glu Thr Gly Met Ser Asp Ala Glu Leu His Glu Leu Lys Glu
 35 40 45
 Phe Gly Ser Asp Lys Thr Arg Thr Ser Gly Val Lys His Lys Val Arg
 50 55 60
 Trp Phe Gln Gln Thr Leu Arg Gln Ala Gly Val Ile Glu Arg Val Pro
 65 70 75 80
 Glu Lys Arg Gly Val Trp Arg Tyr Ser Ser Lys Thr Lys Thr Asn Leu
 85 90 95
 His Glu Ser Trp Glu Lys Leu Cys Val Val Gly Phe Ser Thr Ser Leu
 100 105 110
 Gly Ala Ser Val Phe Gly Asn Ala Tyr Ala Phe Phe Ser Asn Ile Thr
 115 120 125
 Glu Gln Ile His Leu Cys Leu Thr Ser Pro Pro Tyr Leu Leu Arg Asn
 130 135 140
 Ser Arg Asp Tyr Gly His Gly Gly Gly Arg Gly Glu Gln Val Tyr Ile
 145 150 155 160
 Asp Trp Leu Leu Arg Ile Leu Glu Pro Ile Val Lys Gln Leu Val Pro
 165 170 175
 Gly Ala Ser Val Ala Leu Asn Ile Thr Gln Asp Ser Phe Asn Arg Gly
 180 185 190
 Arg Pro Ser Arg Ser Leu Tyr Leu Glu Arg Leu Thr Leu Ala Leu Cys
 195 200 205
 Asp Lys Leu Gly Leu Glu Leu Met Asp Arg Leu Gln Trp Val Asn Arg
 210 215 220
 Ser Lys Pro Pro Ser Pro Thr His Trp Ala Cys Lys Gln Arg Val Gln
 225 230 235 240
 Leu Cys Ser Ser Tyr Glu Pro Val Leu Trp Phe Thr Asn Asp Ala Ser
 245 250 255
 Lys Val Arg Ser Asn Asn Leu Arg Val Leu Gln Pro His Ser Glu Gln
 260 265 270
 His Leu Lys Leu Gln Ala Ala Gly Gly Glu Asn Arg Thr Thr Phe Tyr
 275 280 285
 Gly Asp Gly Ala Tyr Gln Leu Lys Ser Gly Ser Phe Gly Asn Lys Thr
 290 295 300
 Glu Gly Thr Ile Pro Lys Asn Thr Leu Phe Tyr Gly Asn Ser Cys Ala
 305 310 315 320
 Asp Thr Arg Phe Cys His Ser Ile Ala Arg Glu Leu Gly Phe Pro Leu
 325 330 335
 His Gly Ala Thr Ser Pro Thr Arg Leu Ala Ala Phe Leu Ile Glu Phe
 340 345 350
 Leu Thr Glu Pro Gly Asp Leu Val Val Asp Pro Phe Ala Gly Leu His
 355 360 365
 Lys Val Pro Ile Ala Ala Glu Arg Leu Gly Arg Arg Trp Leu Ala Thr
 370 375 380

Asp Lys Ile Met Glu Trp Leu Ala Ile Ser Arg Asn Leu Phe Thr Ala
 385 390 395 400
 Ala Pro Gly Tyr Lys Ser Asn Pro Met Leu Asp Glu Leu Ala Glu Leu
 405 410 415
 Tyr Arg Ala
 420

<210> 6409

<211> 272

<212> PRT

<213> Enterobacter cloacae

<400> 6409

Cys Gly Thr Ile Lys Asn Gly Gly Trp Pro Val Ser Tyr Ser Ile Lys
 1 5 10 15
 Ile Gly Lys His Ser Ile Glu Leu Ala Gly Tyr Ala Gly Lys Val Val
 20 25 30
 Ala Pro Asn Thr Gln Met Ala Ala Leu Phe Arg Gly Met Ala Gly Glu
 35 40 45
 Leu Thr Asn Leu Arg Thr Thr Ala Gln Gln Ala Glu Ala Glu Ala Asp
 50 55 60
 Leu Leu Asp Val Ile Arg Asn Asp Pro Asp Leu Asn Glu Gln Ala Lys
 65 70 75 80
 Asn Arg Arg Ala Gly Glu Ala Arg Asn Pro Asp Thr Leu Lys Asp Phe
 85 90 95
 Thr Arg Gly Val Ala Ala Val Ser Glu Gln Ala Ala Asn Ile Leu Asp
 100 105 110
 Tyr Leu Lys Asn Arg Leu Ala Pro Val Asn Pro Leu Ala Pro Asp Asp
 115 120 125
 Val Gln Gly Phe Met Arg Asp Ser Glu Met Arg Gln Ala Phe Ala Arg
 130 135 140
 Leu Asp Arg Arg Ser Gln Glu Lys Met Leu Leu Ser Met His Ser Gly
 145 150 155 160
 Lys His Gln Glu Leu Ala Asp Ala Leu Leu Arg Ala His Ala Val Cys
 165 170 175
 Ser Gly Leu Asp Thr Glu Gln Leu Lys Arg Leu Gly Phe Ser Arg Ile
 180 185 190
 Ala Ser Glu Asn Gly Gln Val Ile Ser Ala Val Ala Asp Leu Val Asp
 195 200 205
 Ala Val Arg Lys Asp Val Thr Gln Ile Thr Ala Val Arg Thr Trp Tyr
 210 215 220
 Asn Asn Leu Val Tyr Gly Lys Asn Asp Asp Pro Ser Glu Val Leu Pro
 225 230 235 240
 Arg Met Thr Gly Leu Asp Gln Leu Ser Glu His Val Ser Ala Met Leu
 245 250 255
 Lys Gly Ser Gln Arg Gln Thr His Ser Glu Glu Lys Gln Ala Ala
 260 265 270

<210> 6410

<211> 195

<212> PRT

<213> Enterobacter cloacae

<400> 6410

Pro Gly Lys Thr Asn Met Thr Ile Lys Asn Ala Arg Ala Gly Gln Gly
 1 5 10 15
 Phe Ala His Pro Glu Asn Ser Ser Asp Ile Ser Val Ile Lys Phe
 20 25 30
 Glu Asp Ala Lys Val Arg Ile Val Lys Ile Leu Gly Glu Pro Trp Phe
 35 40 45
 Val Ala Ala Asp Val Cys Ala Ala Leu Glu Ile Ala Asp His Lys Val

50 55 60
 Ala Leu Arg Arg Leu Asp Asp Glu Lys Gly Glu Cys Leu Ile Pro
 65 70 75 80
 Thr Pro Gly Gly Lys Gln Thr Met Arg Thr Val Cys Glu Ser Gly Phe
 85 90 95
 Tyr Lys Leu Ile Ser Arg Ser Arg Lys Ala Ile Thr Pro Gly Thr Phe
 100 105 110
 Ala His His Phe Ser Asn Trp Val Phe Arg Glu Val Ile Pro Ser Ile
 115 120 125
 Arg Lys Thr Gly Phe Tyr Gly Val Pro Phe Val Phe Leu Asn Asp Phe
 130 135 140
 Ser Arg Arg Met Ala Ala Tyr Gln Gln Glu Ala Ser Lys Arg Gly Tyr
 145 150 155 160
 Lys Leu Gln Gln Cys Lys Gly Val Lys Glu Ala Leu Glu Arg Glu Glu
 165 170 175
 Ile Gln Leu Trp Leu Lys Tyr Gln Pro Glu Leu Leu Lys Glu Asn Gly
 180 185 190
 Asp Glu
 195

<210> 6411

<211> 627

<212> PRT

<213> Enterobacter cloacae

<400> 6411

Ile Cys Phe Phe Arg Ala Gly Arg Arg Arg Lys Arg Tyr Arg Ser Asp
 1 5 10 15
 Tyr Ala Gly Thr Gly His Arg Thr Asn Ser Gly Tyr Ala Gly Asn His
 20 25 30
 Gln Gly Ala Arg Glu Gln Lys Met Lys Asn Ala Pro Asn Leu Lys Lys
 35 40 45
 Gln Pro Ala Asp Leu Met Glu Glu Ser Ile Ile Phe Ala Gly Ala Asp
 50 55 60
 Ala Trp Thr Phe Ala Lys Ala Trp Gln Glu Met Asn Pro Ile Gly Asp
 65 70 75 80
 Thr Val Pro Pro Val Val Leu Asp Lys Lys Gln Leu Ala Glu Leu Glu
 85 90 95
 Asn Ile Arg Ile Val Asp Asp Gly Arg Leu Tyr Ala Arg Val Cys Arg
 100 105 110
 Gly Gly His Leu Thr Glu Arg Gln Ile Thr Ile Leu Ala Thr Lys Leu
 115 120 125
 Ala Val Ala Gly Val Glu Arg Ala Gln Phe Tyr Ser Glu Gly Tyr Gln
 130 135 140
 Leu Leu Glu Asp Trp Thr Pro Gln Leu Pro Arg Leu Lys Ala Asp Ala
 145 150 155 160
 Gln Ala Gly Lys Ser Met Val Ile Gly Lys Pro Leu Thr Asp Val Asn
 165 170 175
 Leu Arg Asp Leu Ala Asp Asn Glu Lys Ala Leu Ile Leu Ala Ala Arg
 180 185 190
 Tyr Thr Gly Ile Ala Ile Asn Glu Asn Asn Glu Gly Val Tyr Val Tyr
 195 200 205
 Arg Ala Gly Ile Trp Glu Lys Thr Ser Leu Leu Glu Leu Ser Arg Glu
 210 215 220
 Met Val Ala Ile Tyr Asn Glu Asn Lys Thr Asn Phe Ser Lys Arg Ala
 225 230 235 240
 Ile Asn Asn Val Ile Asp Ala Leu Lys Ile Val Ile Pro Val Met Gly
 245 250 255
 Glu Pro Arg Arg Ser Leu Ile Pro Phe Ala Asn Gly Val Tyr Asp Met
 260 265 270
 Glu Thr Gly Val Phe Ser Glu His Ser Gln Asp Asn Trp Leu Thr Asn

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      275      280      285
His Asn Gly Val Ser Tyr Thr Pro Ala Val Pro Gly Glu Asn Leu Arg
290      295      300
Asp His Ala Pro Asn Phe His Lys Trp Leu Ser Tyr Ala Ser Asp Arg
305      310      315      320
Asp Ala Ile Lys Met Gln Arg Ile Ala Ala Ala Leu Phe Met Val Leu
      325      330      335
Ala Asn Arg Tyr Asp Trp Gln Leu Phe Leu Glu Ile Thr Gly Glu Gly
      340      345      350
Gly Ser Gly Lys Ser Val Phe Thr His Ile Ala Thr Met Leu Ala Gly
      355      360      365
Ala His Asn Thr Ala Ser Gly Asn Met Ala Ala Leu Asp Ser Ala Arg
      370      375      380
Gly Arg Ala Gln Phe Val Gly Lys Ser Met Ile Thr Leu Pro Asp Gln
385      390      395      400
Pro Lys Tyr Ser Gly Glu Gly Thr Gly Ile Lys Ala Ile Thr Gly Gly
      405      410      415
Asp Ala Val Glu Ile Asp Pro Lys His Glu His Gln Tyr Thr Ala Val
      420      425      430
Leu Arg Ala Val Val Val Ala Thr Asn Asn Thr Pro Met Ile Phe Thr
      435      440      445
Glu Arg Ala Gly Gly Val Ser Arg Arg Arg Val Ile Phe Gln Phe Asn
      450      455      460
Arg Arg Val Ser Glu Glu Asp Lys Asp Pro Asp Leu Ala Glu Lys Ile
465      470      475      480
Ser Ala Glu Ile Pro Val Val Val Arg Arg Leu Leu Ala Asn Phe Ala
      485      490      495
Asn Pro Glu Lys Ala Arg Ala Leu Leu Glu Gln Arg Asn Ser Glu
      500      505      510
Glu Ala Leu Glu Val Lys Gln Lys Thr Asp Pro Leu Tyr Ala Phe Cys
      515      520      525
Ala His Leu Glu Arg Leu Ala Asp Cys Ala Gly Met Met Val Gly Asn
      530      535      540
Arg Asn Pro Pro His Tyr Pro Arg Ile Tyr Leu Tyr His Ala Tyr Leu
545      550      555      560
Ala Phe Leu Glu Ala Asn Gly Phe Asp Lys Pro Leu Thr Leu Asn Lys
      565      570      575
Phe Ala Glu Gly Met Glu Ser Ala Met Arg Glu Phe Asn His Glu Tyr
      580      585      590
Arg Lys Glu Arg Arg Ala Arg Gly Met Val Thr Asn Val Glu Leu Ser
      595      600      605
Glu Ser Ala Glu Asp Trp Leu Pro Gln Thr His Pro Val Ala Gly His
      610      615      620
Lys Glu
625

```

<210> 6412

<211> 131

<212> PRT

<213> Enterobacter cloacae

<400> 6412

```

Lys Thr Gln Tyr Leu Phe Phe Glu Asp Tyr Ala Leu Ile Asp Leu Trp
1      5      10      15
Leu Lys Ser Lys Arg Phe Phe Phe Glu Lys Leu Leu Phe Tyr Tyr
      20      25      30
Leu Ser Arg Leu Lys Asn Arg Leu Phe Thr Leu Ser Ser Ser Thr Arg
      35      40      45
Val Tyr Leu Ser Ala Phe Arg Asn Lys Gly Val Asn Met Ser Lys Ala
      50      55      60
Leu Ile Arg Leu Pro Glu Val Gln Arg Arg Thr Gly Tyr Ser Lys Ala

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```
<210> 6413
<211> 325
<212> PRT
<213> Enterobacter cloacae
```

[illegible]
$$\begin{array}{ll} \langle 210 \rangle & 6414 \\ \langle 211 \rangle & 954 \end{array}$$

<212> PRT

<213> Enterobacter cloacae

<400> 6414

```

Asn Arg Leu Asn Cys Leu Arg Asp Lys Tyr Gly Thr Glu Asn Leu Met
1      5      10      15
Ser Asp Tyr Lys Ser Thr Leu Asn Leu Pro Glu Thr Gly Phe Pro Met
      20      25      30
Arg Gly Asp Leu Ala Lys Arg Glu Pro Gly Met Leu Ala Arg Trp Thr
      35      40      45
Asp Asp Asp Leu Tyr Gly Ile Ile Arg Ala Ala Lys Lys Gly Lys Lys
      50      55      60
Thr Phe Ile Leu His Asp Gly Pro Pro Tyr Ala Asn Gly Ser Ile His
      65      70      75      80
Ile Gly His Ser Val Asn Lys Ile Leu Lys Asp Ile Ile Val Lys Ser
      85      90      95
Lys Gly Leu Ala Gly Tyr Asp Ser Pro Tyr Val Pro Gly Trp Asp Cys
      100      105      110
His Gly Leu Pro Ile Glu Leu Lys Val Glu Gln Glu Tyr Gly Lys Pro
      115      120      125
Gly Glu Lys Phe Thr Ala Ala Glu Phe Arg Ala Lys Cys Arg Glu Tyr
      130      135      140
Ala Ala Thr Gln Val Asp Gly Gln Arg Ala Asp Phe Ile Arg Leu Gly
      145      150      155      160
Val Leu Gly Asp Trp Ser His Pro Tyr Leu Thr Met Asp Phe Lys Thr
      165      170      175
Glu Ala Asn Ile Ile Arg Ala Leu Gly Lys Ile Ile Gly Asn Gly His
      180      185      190
Leu His Lys Gly Ala Lys Pro Val His Trp Cys Val Asp Cys Arg Ser
      195      200      205
Ala Leu Ala Glu Ala Glu Val Glu Tyr Tyr Asp Lys Thr Ser Pro Ser
      210      215      220
Ile Asp Val Ala Phe Glu Ala Val Asp Gln Asp Ser Ile Lys Ala Lys
      225      230      235      240
Phe Gly Leu Pro Gly Val Ser Gly Pro Val Ser Leu Val Ile Trp Thr
      245      250      255
Thr Thr Pro Trp Thr Leu Pro Ala Asn Arg Ala Ile Ser Leu Ser Gly
      260      265      270
Glu Phe Glu Tyr Ala Leu Val Gln Ile Asp Gly Arg Ala Val Ile Leu
      275      280      285
Ala Lys Asp Leu Val Glu Ser Val Leu Lys Arg Ala Asn Ile Thr Asp
      290      295      300
Tyr Thr Val Leu Gly Thr Val Lys Gly Asp Ala Leu Glu Leu Met Arg
      305      310      315      320
Phe Lys His Pro Phe Leu Asp Phe Asp Val Pro Ala Ile Leu Gly Asp
      325      330      335
His Val Thr Leu Asp Ala Gly Thr Gly Ala Val His Thr Ala Gly Gly
      340      345      350
His Gly Pro Asp Asp Tyr Asn Ile Ser Leu Lys Tyr Gly Leu Glu Ile
      355      360      365
Ala Asn Pro Val Gly Pro Asp Gly Ser Tyr Leu Pro Gly Thr Tyr Pro
      370      375      380
Ala Leu Asp Gly Ile Asn Val Phe Lys Ala Asn Asp Ile Ile Val Asp
      385      390      395      400
Met Leu Arg Thr Ser Gly Ala Leu Leu His Val Glu Lys Met Gln His
      405      410      415
Ser Tyr Pro Cys Cys Trp Arg His Lys Thr Pro Ile Ile Phe Arg Ala
      420      425      430
Thr Pro Gln Trp Phe Val Ser Met Asp Gln Lys Gly Leu Arg Glu Gln
      435      440      445
Ser Leu Lys Glu Ile Lys Gly Val Gln Trp Ile Pro Asp Trp Gly Gln

```

450	455	460
Ala Arg Ile Glu Ser Met Val Ala Asn Arg Pro Asp Trp Cys Ile Ser		
465	470	475
Arg Gln Arg Thr Trp Gly Val Pro Met Ser Leu Phe Val His Lys Glu		
	485	490
Thr Gln Glu Leu His Pro Asn Thr Leu Glu Leu Met Glu Glu Val Ala		
	500	505
Lys Arg Val Glu Val Asp Gly Ile Gln Ala Trp Trp Asp Leu Asp Ala		
	515	520
Arg Asp Ile Leu Gly Ala Asp Ala Asp Asn Tyr Glu Lys Val Pro Asp		
	530	535
Thr Leu Asp Val Trp Phe Asp Ser Gly Ser Thr His Ala Ser Val Val		
	545	550
Asp Val Arg Pro Glu Phe Ala Gly His Ala Ala Asp Met Tyr Leu Glu		
	565	570
Gly Ser Asp Gln His Arg Gly Trp Phe Met Ser Ser Leu Met Ile Ser		
	580	585
Thr Ala Met Lys Gly Lys Ala Pro Tyr Arg Gln Val Leu Thr His Gly		
	595	600
Phe Thr Val Asp Gly Gln Gly Arg Lys Met Ser Lys Ser Ile Gly Asn		
	610	615
Thr Val Ser Pro Gln Asp Val Met Asn Lys Leu Gly Ala Asp Ile Leu		
	625	630
Arg Leu Trp Val Ala Ser Thr Asp Tyr Thr Gly Glu Met Ala Val Ser		
	645	650
Asp Glu Ile Leu Lys Arg Ala Ala Asp Ser Tyr Arg Arg Ile Arg Asn		
	660	665
Thr Ala Arg Phe Leu Leu Ala Asn Leu Asn Gly Phe Asp Pro Val Lys		
	675	680
Asp Met Val Lys Pro Glu Glu Met Val Val Leu Asp Arg Trp Ala Val		
	690	695
Gly Cys Ala Lys Ala Ala Gln Glu Asp Ile Leu Lys Ala Tyr Glu Ser		
	705	710
Tyr Asp Phe His Glu Val Val Gln Arg Leu Met Arg Phe Cys Ser Ile		
	725	730
Glu Met Gly Ser Phe Tyr Leu Asp Ile Ile Lys Asp Arg Gln Tyr Thr		
	740	745
Ala Lys Ala Asp Ser Val Ala Arg Arg Ser Cys Gln Ser Ala Leu Tyr		
	755	760
His Ile Ala Glu Ala Leu Val Arg Trp Met Ala Pro Ile Met Ser Phe		
	770	775
Thr Ala Asp Glu Ile Trp Gly Tyr Leu Pro Gly Asp Arg Glu Lys Tyr		
	785	790
Val Phe Thr Gly Glu Trp Tyr Glu Gly Leu Phe Asp Leu Ser Ser Thr		
	805	810
Glu Ala Met Asn Asp Ala Tyr Trp Asp Glu Leu Leu Lys Val Arg Gly		
	820	825
Glu Val Asn Lys Val Ile Glu Gln Ala Arg Ala Asp Lys Lys Val Gly		
	835	840
Gly Ser Leu Glu Ala Thr Val Thr Leu Tyr Ala Glu Pro Glu Leu Ala		
	850	855
Ala Lys Leu Thr Ala Leu Gly Asp Glu Leu Arg Phe Val Leu Leu Thr		
	865	870
Ser Gly Ala Lys Val Ala Asp Tyr Ala Glu Ala Ser Ala Asp Ala Gln		
	885	890
Gln Ser Glu Leu Leu Lys Gly Leu Lys Val Ala Leu Ser Lys Ala Asp		
	900	905
Gly Glu Lys Cys Pro Arg Cys Trp His Tyr Thr Thr Asp Val Gly Gln		
	915	920
Val Ala Glu His Ala Asp Ile Cys Gly Arg Cys Val Ser Asn Val Ala		
	930	935
		940

Gly Asp Gly Glu Lys Arg Lys Phe Ala
945 950

<210> 6415
<211> 183
<212> PRT
<213> Enterobacter cloacae

<400> 6415

```

Arg Val Ala Ile Pro Ala Tyr Arg Ile Cys Gly Pro Arg Arg Pro Gly
1      5      10      15
Lys Arg Ser Ala Thr Gly Gln Gln Val Thr Gln Asn Lys Arg Ala Ile
20     25     30
Cys Met Ser Lys Ser Val Gln Ser Asn Ser Ala Val Leu Val His Phe
35     40     45
Thr Leu Lys Leu Asp Asp Gly Ser Thr Ala Glu Ser Thr Arg Asn Asn
50     55     60
Gly Lys Pro Ala Leu Phe Arg Leu Gly Asp Thr Ser Leu Ser Glu Gly
65     70     75     80
Leu Glu Gln Gln Leu Leu Gly Leu Lys Glu Gly Glu Lys Lys Ala Phe
85     90     95
Ser Leu Glu Pro Asp Ala Ala Phe Gly Val Pro Ser Pro Asp Leu Ile
100    105    110
Gln Tyr Phe Ser Arg Arg Glu Phe Met Asp Ala Gly Glu Pro Glu Ile
115    120    125
Gly Ala Ile Met Leu Phe Thr Ala Met Asp Gly Ser Glu Met Pro Gly
130    135    140
Val Ile Arg Glu Ile Asn Gly Asp Ser Ile Thr Val Asp Phe Asn His
145    150    155    160
Pro Leu Ala Gly Arg Thr Val His Phe Asp Val Glu Val Leu Glu Ile
165    170    175
Asp Pro Ala Leu Glu Ala
180

```

<210> 6416
<211> 170
<212> PRT
<213> Enterobacter cloacae

<400> 6416

```

Val Cys Leu Met Ser Lys Thr Leu Cys Ser Thr Gly Leu Arg Trp Leu
1      5      10      15
Trp Leu Val Val Val Val Leu Ile Ile Asp Leu Gly Ser Lys Phe Leu
20     25     30
Ile Leu Gln Asn Phe Ala Leu Gly Asp Thr Val Pro Leu Phe Pro Ser
35     40     45
Leu Asn Leu His Tyr Ala Arg Asn Tyr Gly Ala Ala Phe Ser Phe Leu
50     55     60
Ala Asp Ser Gly Gly Trp Gln Arg Trp Phe Phe Ala Gly Ile Ala Ile
65     70     75     80
Gly Ile Cys Val Val Leu Ala Val Leu Met Tyr Arg Ser Lys Ala Thr
85     90     95
Gln Lys Leu Asn Asn Ile Ala Tyr Ala Leu Ile Ile Gly Gly Ala Leu
100    105    110
Gly Asn Leu Phe Asp Arg Leu Trp His Gly Phe Val Val Asp Met Ile
115    120    125
Asp Phe Tyr Val Gly Asp Trp His Phe Ala Thr Phe Asn Leu Ala Asp
130    135    140
Ser Ala Ile Cys Val Gly Ala Ala Leu Ile Val Leu Glu Gly Phe Leu
145    150    155    160
Pro Lys Pro Ala Ala Lys Glu Gln Ala

```

165

170

<210> 6417
 <211> 329
 <212> PRT
 <213> Enterobacter cloacae

<400> 6417

Lys Cys Trp Arg Ser Ile Arg His Trp Arg Pro Glu Met Gln Ile Leu
 1 5 10 15
 Leu Ala Asn Pro Arg Gly Phe Cys Ala Gly Val Asp Arg Ala Ile Ser
 20 25 30
 Ile Val Glu Asn Ala Leu Glu Ile Tyr Gly Ala Pro Ile Tyr Val Arg
 35 40 45
 His Glu Val Val His Asn Arg Tyr Val Val Asp Ser Leu Arg Glu Arg
 50 55 60
 Gly Ala Ile Phe Ile Glu Gln Ile Ser Glu Val Pro Asp Gly Ala Ile
 65 70 75 80
 Leu Ile Phe Ser Ala His Gly Val Ser Gln Ala Val Arg Asn Glu Ala
 85 90 95
 Lys Asn Arg Asp Leu Thr Val Phe Asp Ala Thr Cys Pro Leu Val Thr
 100 105 110
 Lys Val His Met Glu Val Ala Arg Ala Ser Arg Arg Gly Glu Glu Ser
 115 120 125
 Ile Leu Ile Gly His Ala Gly His Pro Glu Val Glu Gly Thr Met Gly
 130 135 140
 Gln Tyr Ser Asn Pro Glu Gly Gly Met Tyr Leu Val Glu Ser Pro Glu
 145 150 155 160
 Asp Val Phe Thr Leu Asn Val Lys Asn Glu Ala Arg Leu Ser Phe Met
 165 170 175
 Thr Gln Thr Thr Leu Ser Val Asp Asp Thr Ser Asp Val Ile Asp Ala
 180 185 190
 Leu Arg Gln Arg Phe Pro Lys Ile Val Gly Pro Arg Lys Asp Asp Ile
 195 200 205
 Cys Tyr Ala Thr Thr Asn Arg Gln Glu Ala Val Arg Ala Leu Ala Glu
 210 215 220
 Gln Ala Asp Val Val Leu Val Val Gly Ser Lys Asn Ser Ser Asn Ser
 225 230 235 240
 Asn Arg Leu Ala Glu Leu Ala Gln Arg Met Gly Lys Ala Ala Phe Leu
 245 250 255
 Ile Asp Asp Ala Thr Asp Ile Gln Glu Ala Trp Val Lys Asn Ala Val
 260 265 270
 Cys Val Gly Val Thr Ala Gly Ala Ser Ala Pro Asp Ile Leu Val Gln
 275 280 285
 Asn Val Ile Ala Arg Leu Gln Glu Leu Gly Gly Gly Glu Ala Val Pro
 290 295 300
 Leu Glu Gly Arg Glu Glu Asn Ile Val Phe Glu Val Pro Lys Glu Leu
 305 310 315 320
 Arg Ile Asp Ala Arg Glu Val Glu
 325

<210> 6418
 <211> 128
 <212> PRT
 <213> Enterobacter cloacae

<400> 6418

Lys Met Thr Asn Arg Ala Ile Pro Leu Pro Asp Glu Gln Ala Thr Leu
 1 5 10 15
 Asp Leu Gly Lys Arg Val Ala Gln Ala Cys Gln Gly Ala Thr Val Ile
 20 25 30

Tyr Leu Tyr Gly Asp Leu Gly Ala Gly Glu Thr Thr Phe Ser Arg Gly
 35 40 45
 Phe Leu Gln Ala Leu Gly His Asn Gly Asn Val Lys Ser Pro Thr Tyr
 50 55 60
 Thr Leu Val Glu Thr Tyr Thr Leu Glu Asn Ile Met Val Val His Phe
 65 70 75 80
 Asp Leu Tyr Arg Leu Ala Gly Pro Gly Arg Ala Gly Asn Leu Trp Gly
 85 90 95
 Ser Ala Ile Thr Leu Pro Thr Thr Pro Ser Ala Trp Trp Ser Gly Arg
 100 105 110
 Asn Lys Val Arg Val Cys Cys Leu Thr Arg Met Ser Lys Phe Thr
 115 120 125

<210> 6419

<211> 456

<212> PRT

<213> Enterobacter cloacae

<400> 6419

Pro Val Glu Arg Arg Asp Asn Gly Met Ile Asn Arg Val Lys Gly Trp
 1 5 10 15
 Val Leu Ala Ala Thr Val Leu Leu Cys Ala Gln Val Gly Ala Ala Ser
 20 25 30
 Leu Ser Asp Ile Gln Val Ser Asn Gly Asp Ser Gln Ala Arg Ile Thr
 35 40 45
 Phe Ser Phe Met Gly Asp Pro Glu Tyr Ala Phe Ser Gln Ile Asp Ser
 50 55 60
 Arg Ser Val Ala Leu Asp Ile Lys Gln Thr Gly Val Ile Gln Gly Leu
 65 70 75 80
 Pro Leu Gln Phe Ser Gly Asn Asn Leu Val Lys Ser Ile Arg Ser Gly
 85 90 95
 Thr Pro Lys Asp Thr Gln Ser Leu Arg Leu Val Val Asp Leu Thr Glu
 100 105 110
 Lys Gly Lys Thr Lys Ala Val Lys Gln Gln Asn Gly Ala Asn Tyr Thr
 115 120 125
 Val Val Phe Thr Ile Asn Ala Asp Val Pro Pro Pro Pro Pro Pro
 130 135 140
 Ala Pro Val Val Ala Lys Arg Val Glu Ala Pro Val Tyr Thr Pro Arg
 145 150 155 160
 Pro Ser Glu Pro Ala Arg Asn Pro Phe Lys Ser Gln Asn Asp Arg Leu
 165 170 175
 Thr Ala Val Thr Ser Ser Asn Thr Val Thr Arg Pro Ala Val Ser Ala
 180 185 190
 Arg Arg Thr Pro Val Ser Gly Asp Lys Val Ile Ile Ala Ile Asp Ala
 195 200 205
 Gly His Gly Gly Gln Asp Pro Gly Ala Ile Gly Pro Gly Gly Thr Arg
 210 215 220
 Glu Lys Asn Val Thr Ile Ala Ile Ala Arg Lys Leu Arg Ala Leu Leu
 225 230 235 240
 Asn Asp Asp Pro Met Phe Lys Gly Val Met Thr Arg Asp Gly Asp Tyr
 245 250 255
 Phe Ile Ser Val Met Gly Arg Ser Asp Val Ala Arg Lys Gln Asn Ala
 260 265 270
 Asn Phe Leu Val Ser Ile His Ala Asp Ala Ala Pro Asn Arg Asn Ala
 275 280 285
 Thr Gly Ala Ser Val Trp Val Leu Ser Asn Arg Arg Ala Asn Ser Glu
 290 295 300
 Met Ala Asn Trp Leu Glu Glu His Glu Lys Gln Ser Glu Leu Leu Gly
 305 310 315 320
 Gly Ala Gly Asp Val Leu Ala Asn Ser Gln Ala Asp Pro Tyr Leu Ser
 325 330 335

Gln Ala Val Leu Asp Leu Gln Phe Gly His Ser Gln Arg Val Gly Tyr
 340 345 350
 Asp Val Ala Thr Asn Val Leu Ser Gln Leu Gln Ser Ile Gly Ser Leu
 355 360 365
 His Lys Arg Arg Pro Glu His Ala Ser Leu Gly Val Leu Arg Ser Pro
 370 375 380
 Asp Ile Pro Ser Ile Leu Val Glu Thr Gly Phe Ile Ser Asn His Gly
 385 390 395 400
 Glu Glu Arg Leu Leu Gly Ser Asp Ser Tyr Gln Gln Gln Ile Ala Glu
 405 410 415
 Ala Ile Tyr Asn Gly Leu Arg Lys Tyr Phe Asp Ala His Pro Leu Gln
 420 425 430
 Ser Ala Pro Gln Gly Gly Ala Ala Gln Thr Ala Ser Ala Ala Leu Pro
 435 440 445
 Gly Glu Met Thr Ala Thr Asn
 450 455

<210> 6420

<211> 606

<212> PRT

<213> Enterobacter cloacae

<400> 6420

Gly Glu Phe Met Pro Ile Gln Val Leu Pro Pro Gln Leu Ala Asn Gln
 1 5 10 15
 Ile Ala Ala Gly Glu Val Val Glu Arg Pro Ala Ser Val Val Lys Glu
 20 25 30
 Leu Val Glu Asn Ser Leu Asp Ala Gly Ala Thr Arg Ile Asp Ile Asp
 35 40 45
 Ile Glu Arg Gly Gly Ala Lys Leu Ile Arg Ile Arg Asp Asn Gly Cys
 50 55 60
 Gly Ile Lys Lys Asp Glu Leu Ala Leu Ala Leu Ala Arg His Ala Thr
 65 70 75 80
 Ser Lys Ile Ala Ser Leu Asp Asp Leu Glu Ala Ile Ile Ser Leu Gly
 85 90 95
 Phe Arg Gly Glu Ala Leu Ala Ser Ile Ser Ser Val Ser Arg Leu Thr
 100 105 110
 Leu Thr Ser Arg Thr Ala Asp Gln Gln Glu Ala Trp Gln Ala Tyr Ala
 115 120 125
 Glu Gly Arg Asp Met Asp Val Thr Val Lys Pro Ala Ala His Pro Val
 130 135 140
 Gly Thr Thr Leu Glu Val Leu Asp Leu Phe Tyr Asn Thr Pro Ala Arg
 145 150 155 160
 Arg Lys Phe Met Arg Thr Glu Lys Thr Glu Phe Gly His Ile Asp Glu
 165 170 175
 Ile Ile Arg Arg Ile Ala Leu Ala Arg Phe Asp Val Thr Leu Asn Leu
 180 185 190
 Ser His Asn Gly Lys Val Met Arg Gln Tyr Arg Ala Val Ala Glu Gly
 195 200 205
 Gly Gln Lys Glu Arg Arg Leu Gly Ala Ile Cys Gly Thr Pro Phe Leu
 210 215 220
 Glu Lys Ala Leu Ala Ile Glu Trp Gln His Gly Asp Leu Ala Leu Arg
 225 230 235 240
 Gly Trp Val Ala Asp Pro Asn Ala Ser Ser Ala Ala Phe Ala Glu Ile
 245 250 255
 Gln Tyr Cys Tyr Val Asn Gly Arg Met Met Arg Asp Arg Leu Ile Asn
 260 265 270
 His Ala Ile Arg Gln Ala Cys Glu Asp Lys Leu Gly Ala Asp Gln Gln
 275 280 285
 Pro Ala Phe Val Leu Tyr Leu Glu Ile Asp Pro His Gln Val Asp Val
 290 295 300

Asn Val His Pro Ala Lys His Glu Val Arg Phe His Gln Ser Arg Leu
 305 310 315 320
 Val His Asp Phe Ile Tyr Gln Gly Val Ala Ala Val Leu Gln Gln
 325 330 335
 Ala Glu Pro Glu Leu Pro Leu Ala Lys Glu Glu Pro Ala Pro Arg Pro
 340 345 350
 Leu Pro Glu Asn Arg Val Ala Ala Gly Arg Asn His Phe Ala Glu Pro
 355 360 365
 Ala Val Ala Arg Glu Pro Ala Ala Pro Arg Leu Ser Pro Ala Gly Asn
 370 375 380
 Ala Pro Arg Pro Thr Gly Ala Asn Tyr Pro Asn Ala Gln Pro Gly Tyr
 385 390 395 400
 His Lys Gln Gln Gly Ala Leu Tyr Arg Lys Leu Leu Asp Thr Pro Ala
 405 410 415
 Val Glu His Lys Glu His Ile Thr Val Ser Thr Pro Ser Leu Asp Gly
 420 425 430
 His Ser Gln Ser Phe Gly Arg Val Leu Thr Ile Ile Ala Pro Asp Met
 435 440 445
 Ala Leu Leu Glu Arg Glu Gly Lys Leu Leu Leu Leu Ala Leu Ser Val
 450 455 460
 Ala Glu Arg Trp Leu Lys Gln Ala Gln Leu Thr Pro Gly Val Asn Ala
 465 470 475 480
 Ala Cys Ala Gln Pro Leu Leu Ile Pro Val Arg Leu Lys Ile Ser Pro
 485 490 495
 Glu Glu Thr Gly Val Leu Arg Arg Val Gln Thr Gln Leu Ala Glu Met
 500 505 510
 Gly Ile Glu Ile Val Leu Asp Ala Gln His Val Thr Ile Arg Ala Val
 515 520 525
 Pro Leu Pro Leu Arg Gln Gln Asn Leu Gln Asn Leu Ile Pro Glu Leu
 530 535 540
 Ile Gly Tyr Leu Ala Gln Gln Thr Thr Phe Asp Ala Ala Asp Thr Ala
 545 550 555 560
 Gln Trp Ile Ala Arg His Leu Ala Ser Glu His Ala Pro Trp Ser Met
 565 570 575
 Ala Gln Ala Ile Thr Val Leu Ala Glu Val Glu Arg Leu Cys Pro Gln
 580 585 590
 Leu Val Lys Ala Pro Ala Arg Trp Phe Val Thr Thr Cys
 595 600 605

<210> 6421

<211> 108

<212> PRT

<213> Enterobacter cloacae

<400> 6421

Gly Lys Asp Arg Met Ala Lys Gly Gln Ser Leu Gln Asp Pro Phe Leu
 1 5 10 15
 Asn Ala Leu Arg Arg Glu Arg Val Pro Val Ser Ile Tyr Leu Val Asn
 20 25 30
 Gly Ile Lys Leu Gln Gly Gln Ile Glu Ser Phe Asp Gln Phe Val Ile
 35 40 45
 Leu Leu Lys Asn Thr Val Ser Gln Met Val Tyr Lys His Ala Ile Ser
 50 55 60
 Thr Val Val Pro Ser Arg Pro Val Ser His His Ser Asn Asn Ala Gly
 65 70 75 80
 Gly Gly Thr Gly Ser Asn Tyr His His Gly Ser Asn Ala Gln Gly Ser
 85 90 95
 Ser Thr Pro Ala Gln Asp Ser Glu Glu Thr Glu
 100 105

<210> 6422

<211> 564

<212> PRT

<213> Enterobacter cloacae

<400> 6422

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Arg Ala Ile His Ser Ile Ser Pro Trp Tyr Cys Leu Ser Ser His Ala
1      5      10      15
Trp Ser Leu Gly Ser Leu Ala Glu Arg Ser Val Ser Val Ile Pro Thr
20      25      30
Phe Trp Lys Pro Ser Ser Ala Pro His Cys Phe Ile Phe Cys Ala Asn
35      40      45
Ser Leu Arg Ser Arg Gly Cys Asp Met Thr Asp His Thr Val Lys Lys
50      55      60
Asn Leu Ala Ser Ile Pro His Ser Ile Trp His Ala Asp Asp Leu Arg
65      70      75      80
Arg Ala Glu Lys Glu Ala Ala Asp Ser Leu Gly Ile Thr Leu Tyr Glu
85      90      95
Leu Met Gln Arg Ala Gly Glu Ala Ala Phe Asn Val Ala Arg Thr Ala
100     105     110
Tyr Pro Asp Ala Ser His Tyr Leu Ile Leu Cys Gly His Gly Asn Asn
115     120     125
Gly Gly Asp Gly Tyr Val Val Ala Arg Leu Ala Val Ala Ala Gly Leu
130     135     140
Arg Val Thr Leu Met Ala Leu Glu Ser Asp Lys Pro Leu Pro Glu Glu
145     150     155     160
Ala Gly Met Ala Arg Glu Ala Trp Leu Asn Ala Gly Gly Ile Ile His
165     170     175
Ala Pro Asp Ile Ile Trp Pro Glu Asp Val Asp Val Ile Val Asp Gly
180     185     190
Leu Leu Gly Thr Gly Leu Met Arg Ala Pro Arg Asp Asp Val Ala Ala
195     200     205
Leu Ile Thr Arg Ala Asn Ala His Pro Ala Pro Val Val Ala Leu Asp
210     215     220
Ile Pro Ser Gly Leu Met Ala Gln Thr Gly Ala Thr Pro Gly Val Ser
225     230     235     240
Ile Glu Ala Ala His Thr Val Thr Phe Ile Ala Leu Lys Pro Gly Leu
245     250     255
Leu Thr Gly Lys Ala Arg Asp Val Val Gly Thr Leu His His Asn Ala
260     265     270
Leu Gly Leu Glu Asn Trp Leu Ile Gly Gln Asp Thr His Ile Thr Arg
275     280     285
Phe Asp Ala Ser Gln Leu Ala Gln Trp Leu Pro Pro Arg Arg Pro Thr
290     295     300
Ser His Lys Gly Asp His Gly Arg Leu Leu Ile Ile Gly Gly Asp His
305     310     315     320
Gly Thr Ala Gly Ala Ile Arg Met Thr Gly Glu Ala Ala Leu Arg Ser
325     330     335
Gly Gly Gly Leu Ile Arg Val Leu Thr Arg Ser Glu Asn Ile Pro Pro
340     345     350
Ile Ile Thr Ala Arg Pro Glu Leu Met Val His Glu Leu Thr Pro Gln
355     360     365
Ala Ile Glu Lys Gly Leu Glu Trp Ala Asp Val Val Val Ile Gly Pro
370     375     380
Gly Leu Gly Gln Gln Glu Trp Gly Lys Gln Ala Leu Gln Lys Ala Glu
385     390     395     400
Asn Phe Arg Lys Pro Met Leu Trp Asp Ala Asp Ala Leu Asn Leu Leu
405     410     415
Ala Ile Asn Pro Asp Lys Arg His Asn Arg Ile Leu Thr Pro His Pro
420     425     430
Gly Glu Ala Ala Arg Leu Leu Asn Cys Ser Val Ala Glu Ile Glu Ser
435     440     445

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Asp Arg Leu Leu Ser Ala Gln Arg Leu Val Lys Arg Tyr Gly Gly Val
 450 455 460
 Ala Val Leu Lys Gly Ala Gly Thr Val Ile Ala Ser Asp Asp Ala Met
 465 470 475 480
 Gly Ile Val Asp Ala Gly Asn Ala Gly Met Ala Ser Gly Gly Met Gly
 485 490 495
 Asp Val Leu Ser Gly Ile Ile Gly Ala Leu Leu Gly Gln Lys Leu Pro
 500 505 510
 Leu Tyr Asp Ala Ala Cys Ala Gly Cys Val Ala His Gly Thr Ala Ala
 515 520 525
 Asp Arg Leu Ala Ala Arg Tyr Gly Thr Arg Gly Met Leu Ala Thr Asp
 530 535 540
 Leu Phe Cys Thr Leu Arg Arg Val Val Asn Pro Asp Val Ile Asp Val
 545 550 555 560
 Glu Asn Asp

<210> 6423
 <211> 75
 <212> PRT
 <213> Enterobacter cloacae

<220>
 <221> UNSURE
 <222> (12)

<400> 6423
 Phe Ile Ser Ser Cys Arg Thr Arg Lys Ser Arg Xaa Phe Met Gly Ile
 1 5 10 15
 Arg Asp Tyr Phe Ala Asn Asp Ala Ile Cys Leu Val Glu Trp Pro Gln
 20 25 30
 Gln Gly Ala Gly Val Leu Pro Asp Pro Asp Val Glu Ile His Leu Asp
 35 40 45
 Tyr Gln Ala Gln Gly Arg Glu Ala Arg Ile Ser Ala Val Ser Ser Ser
 50 55 60
 Gly Cys Ser Leu Leu Ala Arg Leu Ala Gly
 65 70 75

<210> 6424
 <211> 318
 <212> PRT
 <213> Enterobacter cloacae

<400> 6424
 Asn Met Thr Asp Val Ser Lys Ala Ser Leu Pro Lys Ala Ile Phe Leu
 1 5 10 15
 Met Gly Pro Thr Ala Ser Gly Lys Thr Ala Leu Ala Ile Glu Leu Arg
 20 25 30
 Lys Val Leu Pro Val Glu Leu Ile Ser Val Asp Ser Ala Leu Ile Tyr
 35 40 45
 Arg Gly Met Asp Ile Gly Thr Ala Lys Pro Asn Ala Asp Glu Leu Arg
 50 55 60
 Ala Ala Pro His Arg Leu Leu Asp Ile Leu Asp Pro Ala Gln Ala Tyr
 65 70 75 80
 Ser Ala Ala Asp Phe Arg Arg Asp Ala Leu Ala Glu Met Ala Glu Ile
 85 90 95
 Thr Ala Ala Gly Arg Ile Pro Leu Leu Val Gly Gly Thr Met Leu Tyr
 100 105 110
 Phe Lys Ala Leu Leu Glu Gly Leu Ser His Leu Pro Ser Ala Asp Pro
 115 120 125
 Glu Val Arg Ala Lys Ile Glu Arg Gln Ala Ala Glu Gln Gly Trp Asp

130 135 140
 Val Leu His Arg Gln Leu Glu Glu Ile Asp Pro Val Ala Ala Ala Arg
 145 150 155 160
 Ile His Pro Asn Asp Pro Gln Arg Leu Ser Arg Ala Leu Glu Val Phe
 165 170 175
 Phe Ile Ser Gly Lys Thr Leu Thr Glu Leu Thr Gln Thr Ser Gly Asp
 180 185 190
 Ala Leu Pro Tyr Gln Val His Gln Phe Ala Ile Ala Pro Ala Ser Arg
 195 200 205
 Glu Leu Leu His Gln Arg Ile Glu Gln Arg Phe His Gln Met Leu Ala
 210 215 220
 Ser Asp Phe Glu Ala Glu Val Arg Ala Leu Phe Ala Arg Gly Asp Leu
 225 230 235 240
 His Thr Asp Met Pro Ser Ile Arg Cys Val Gly Tyr Arg Gln Met Trp
 245 250 255
 Ser Tyr Leu Glu Gly Glu Ile Ser Tyr Asp Glu Met Val Tyr Arg Gly
 260 265 270
 Val Cys Ala Thr Arg Gln Leu Ala Lys Arg Gln Ile Thr Trp Leu Arg
 275 280 285
 Gly Trp Lys Gly Val His Trp Leu Asp Ser Glu Lys Pro Gln Gln Ala
 290 295 300
 Leu Asn Glu Val Ile Glu Val Ile Gly Asp Ile Ala Asp
 305 310 315

<210> 6425

<211> 124

<212> PRT

<213> Enterobacter cloacae

<400> 6425

Arg Gly Leu Arg Leu Phe Asp Arg Tyr Asp Ala Gly Glu Gln Ala Val
 1 5 10 15
 Leu Val His Ile Tyr Phe Ser Gln Asp Lys Asp Met Glu Asp Leu Gln
 20 25 30
 Glu Phe Glu Ser Leu Val Ser Ser Ala Gly Val Glu Ala Met Gln Val
 35 40 45
 Ile Thr Gly Ser Arg Lys Ala Pro His Pro Lys Tyr Phe Val Gly Glu
 50 55 60
 Gly Lys Ala Val Lys Ile Ala Asp Ala Val Lys Ala Thr Gly Ala Ser
 65 70 75 80
 Val Val Leu Phe Asp His Ala Leu Ser Pro Ala Gln Glu Arg Asn Leu
 85 90 95
 Glu Ala Leu Cys Glu Cys Arg Val Ile Asp Arg Thr Gly Leu Ile Leu
 100 105 110
 Asp Ile Phe Ala Gln Arg Ala Arg Thr His Glu Gly
 115 120

<210> 6426

<211> 417

<212> PRT

<213> Enterobacter cloacae

<400> 6426

Arg Val Met Pro Arg Leu Ser Ala Ala Ser Phe Ser Ala Arg Arg Arg
 1 5 10 15
 Ser Ser Ala Cys Gln Met Glu Cys Gly Ile Leu Ala Arg Phe Phe Phe
 20 25 30
 Thr Val Trp Ser Val Met Ser Gln Pro Leu Asp Leu Asn Glu Leu Ala
 35 40 45
 Gln Lys Ile Lys Gln Trp Gly Ala Glu Leu Gly Phe Gln Lys Val Gly
 50 55 60

Ile Thr Asp Thr Asp Leu Ser Ala Ser Glu Pro Lys Leu Gln Ala Trp
 65 70 75 80
 Leu Asp Lys Gln Tyr His Gly Glu Met Glu Trp Ile Ala Arg His Gly
 85 90 95
 Met Met Arg Ala Arg Pro His Glu Leu Leu Pro Gly Thr Leu Arg Val
 100 105 110
 Ile Ser Val Arg Met Asn Tyr Leu Pro Ala Asn Ala Ala Phe Ala Arg
 115 120 125
 Thr Leu Lys Asn Pro Ser Leu Gly Tyr Val Ser Arg Tyr Ala Leu Gly
 130 135 140
 Arg Asp Tyr His Lys Leu Leu Arg Asn Arg Leu Lys Lys Leu Gly Glu
 145 150 155 160
 Thr Ile Gln Gln His Cys Val Ser Leu Asn Phe Arg Pro Phe Val Asp
 165 170 175
 Ser Ala Pro Ile Leu Glu Arg Pro Ile Ala Glu Lys Ala Gly Leu Gly
 180 185 190
 Trp Thr Gly Lys His Ser Leu Ile Leu Ser Arg Asp Ala Gly Ser Phe
 195 200 205
 Phe Phe Leu Gly Glu Leu Leu Ile Asp Leu Pro Leu Pro Val Asp Ser
 210 215 220
 Pro Val Glu Glu Gly Cys Gly Arg Cys Val Ala Cys Met Thr Ile Cys
 225 230 235 240
 Pro Thr Gly Ala Ile Val Glu Pro Tyr Thr Val Asp Ala Arg Arg Cys
 245 250 255
 Ile Ser Tyr Leu Thr Ile Glu Leu Glu Gly Ala Ile Pro Glu Glu Phe
 260 265 270
 Arg Pro Leu Ile Gly Asn Arg Ile Tyr Gly Cys Asp Asp Cys Gln Leu
 275 280 285
 Ile Cys Pro Trp Asn Arg Tyr Ser Gln Leu Thr Asp Glu Glu Asp Phe
 290 295 300
 Ser Pro Arg Lys Ala Leu His Ala Pro Gln Leu Ile Glu Leu Phe Ala
 305 310 315 320
 Trp Ser Glu Ala Trp Phe Leu Lys Val Thr Glu Gly Ser Ala Ile Arg
 325 330 335
 Arg Ile Gly His Leu Arg Trp Leu Arg Asn Val Ala Val Ala Leu Gly
 340 345 350
 Asn Ala Pro Trp Asp Glu Ala Asn Leu Gln Ala Leu Glu Ser Arg Arg
 355 360 365
 Gly Glu His Pro Leu Leu Asp Glu His Ile Glu Trp Ala Ile Ala Gln
 370 375 380
 Gln Ile Glu Lys Arg Asn Ala Gly Val Val Glu Val Gln Leu Pro Lys
 385 390 395 400
 Lys Gln Arg Leu Val Arg Val Ile Glu Lys Gly Leu Pro Arg Asp Val
 405 410 415

<210> 6427

<211> 91

<212> PRT

<213> Enterobacter cloacae

<400> 6427

Arg Leu Asp Gly Leu Trp Gln Leu Val Gly Phe Tyr Leu Gly Trp Leu
 1 5 10 15
 Gly Gly Glu Gly Lys Gly Arg Ala Leu Gly Val Gly Glu Val Lys Phe
 20 25 30
 Thr Gly Gln Val Leu Pro Thr Ala Lys Lys Val Thr Tyr Arg Ile His
 35 40 45
 Phe Lys Arg Ile Val Asn Arg Arg Leu Ile Met Gly Leu Ala Asp Gly
 50 55 60

Glu Val Leu Val Asp Gly Arg Leu Ile Tyr Thr Ala Asn Asp Leu Lys
 65 70 75 80
 Val Gly Leu Phe Gln Asp Thr Ser Ala Phe
 85 90

<210> 6428
 <211> 150
 <212> PRT
 <213> Enterobacter cloacae

<400> 6428
 Ile Gly Ile Val Ile Ala Arg Val Ser His Gln Leu Ala Ala Val Glu
 1 5 10 15
 Val Asp Asn Ala Arg Gly His Ile Ala Asp Glu Arg Thr Val Val Gly
 20 25 30
 Asp Glu Asp Asn Gly Ala Val Lys Gly Phe Gln Glu Pro Phe Gln Pro
 35 40 45
 Val Asn Arg Phe Asp Ile Gln Val Val Arg Arg Phe Val Gln Gln Gln
 50 55 60
 His Leu Arg Pro Ala His Gln Gly Thr Ala Gln Arg Arg Phe Thr Gln
 65 70 75 80
 Pro Ala Ala Gly Glu Arg Arg Gln Leu His Ile Arg Phe Gln Ala Lys
 85 90 95
 Leu Gly Gln His Phe Ile Asn Ala Val Phe Gln Leu Pro Gln Thr Val
 100 105 110
 Val Ile Glu His Leu Leu His Phe Cys Gln Leu Val Glu Ile Leu Val
 115 120 125
 Ala Arg Val Arg His Asp Gln Met Arg Asn Leu Val Thr Leu Glu
 130 135 140
 Val Phe Arg Leu Leu
 145 150

<210> 6429
 <211> 105
 <212> PRT
 <213> Enterobacter cloacae

<400> 6429
 Val Thr Ser Leu Pro Arg Ser Arg Ser Thr Met Arg Val Ala Ile Leu
 1 5 10 15
 Arg Met Asn Glu Arg Ser Trp Glu Met Lys Ile Met Val Pro Leu Lys
 20 25 30
 Val Phe Arg Asn Pro Ser Ser Gln Ser Ile Ala Ser Ile Ser Arg Trp
 35 40 45
 Phe Val Gly Ser Ser Ser Ser Thr Leu Gly Pro Leu Thr Arg Ala
 50 55 60
 Arg Pro Ser Ala Ala Leu Arg Ser Gln Pro Pro Glu Ser Ala Asp Ser
 65 70 75 80
 Ser Ile Ser Ala Ser Arg Pro Ser Trp Ala Ser Thr Ser Leu Met Arg
 85 90 95
 Phe Ser Ser Cys His Arg Pro Trp
 100 105

<210> 6430
 <211> 419
 <212> PRT
 <213> Enterobacter cloacae

<400> 6430
 Ser Met Cys Asp Gln His His Ala Asp Arg His Ile Leu Cys Ser Gln
 1 5 10 15

Cys Asp Met Leu Val Ala Leu Pro Glu Leu Gly His Gly His Lys Ala
 20 25 30
 Ala Cys Pro Arg Cys Gly Ala Thr Leu Thr Thr Glu Trp Asp Ala Pro
 35 40 45
 Arg Gln Arg Pro Thr Ala Tyr Ala Leu Ala Ala Leu Phe Met Leu Leu
 50 55 60
 Leu Ser Asn Leu Phe Pro Phe Ile Tyr Met Lys Val Gly Gly Met Thr
 65 70 75 80
 Ser Gln Val Asp Leu Glu Ile Pro Gly Val Met Phe Ser Glu Asp
 85 90 95
 Tyr Ala Ser Leu Gly Thr Phe Phe Leu Leu Phe Val Gln Ile Val Pro
 100 105 110
 Ala Phe Cys Leu Val Val Ile Leu Leu Leu Val Asn Arg Val Arg Met
 115 120 125
 Pro Thr Val Leu Lys Ile Lys Leu Ala Arg Ile Leu Phe Gln Leu Lys
 130 135 140
 Ser Trp Gly Met Ala Glu Ile Phe Leu Ala Gly Ile Leu Val Ser Phe
 145 150 155 160
 Val Lys Leu Met Ala Tyr Gly Asp Val Gly Ile Gly Ser Ser Phe Ile
 165 170 175
 Pro Trp Cys Leu Tyr Cys Val Leu Gln Leu Arg Ala Phe Gln Cys Val
 180 185 190
 Asp Arg Arg Trp Ala Trp Asp Asp Ile Ala Pro Ala Pro Thr Leu Ser
 195 200 205
 Gln Thr Val Lys Val Gly Val Pro Gly Ile Arg Gln Gly Leu Arg Ser
 210 215 220
 Cys Ser Cys Cys Thr Ala Val Leu Pro Ala Asp Val Glu Val Cys Pro
 225 230 235 240
 Arg Cys Glu Thr Lys Gly His Val Arg Arg Lys Asn Ser Leu Gln Trp
 245 250 255
 Thr Met Ala Leu Leu Val Thr Ser Val Met Leu Tyr Leu Pro Ala Asn
 260 265 270
 Ile Leu Pro Ile Met Ile Thr Asp Leu Leu Gly Asp Arg Met Pro Ser
 275 280 285
 Thr Ile Leu Ala Gly Val Ile Leu Leu Trp Ser Glu Gly Ser Tyr Pro
 290 295 300
 Val Ala Gly Val Ile Phe Leu Ala Ser Ile Met Val Pro Thr Leu Lys
 305 310 315 320
 Met Ile Ala Ile Ala Trp Leu Cys Trp Asp Ala Lys Gly His Gly Lys
 325 330 335
 Arg Asp Ser Glu Arg Met His Leu Ile Tyr Glu Val Val Glu Phe Val
 340 345 350
 Gly Arg Trp Ser Met Ile Asp Val Phe Val Ile Ala Val Leu Ser Ala
 355 360 365
 Leu Val Arg Met Gly Gly Leu Met Ser Ile Tyr Pro Ala Met Gly Ala
 370 375 380
 Leu Met Phe Ala Leu Val Ile Met Thr Met Phe Ala Ala Met Thr
 385 390 395 400
 Phe Asp Pro Arg Leu Ser Trp Asp Arg Glu Pro Asp Ser Ser His Glu
 405 410 415
 Glu Glu

<210> 6431

<211> 77

<212> PRT

<213> Enterobacter cloacae

<400> 6431

Pro Ser Thr Leu Val Tyr Arg Gly Ile Val Ser Pro Ile Gln Ala Met
 1 5 10 15

Arg Lys Ser Lys Ser Met Glu Asn Lys Ser Gly Glu Ala Lys Val Gln
 20 25 30
 Lys Val Arg Asn Trp Ser Pro Val Trp Ile Phe Pro His Arg Asp Arg
 35 40 45
 Ala Asp Arg Cys Met Asp Pro Val Leu Ser Leu Gln Pro Ser Gly Thr
 50 55 60
 Gly Ser His Ala Asn Tyr His Gln Cys Arg Gly Asp
 65 70 75

<210> 6432

<211> 193

<212> PRT

<213> Enterobacter cloacae

<400> 6432

Glu Gly Glu Thr Met Lys Lys Trp Leu Ile Ile Ala Gly Ala Leu Val
 1 5 10 15
 Leu Thr Ala Cys Ser Phe Gly Ser Asp Asn Lys Ser Tyr Tyr Gln Leu
 20 25 30
 Pro Leu Ser Ala Gln Ser Gly Ala Gln Ser Ser Thr Ser Gln Gly Ser
 35 40 45
 Arg Leu Leu Trp Val Glu Gln Val Ala Val Pro Asp Tyr Leu Ala Gly
 50 55 60
 Asn Gly Val Val Tyr Gln Thr Ser Asp Val Gln Tyr Val Ile Ala Asn
 65 70 75 80
 Asn Asn Leu Trp Ala Ser Pro Leu Asp Gln Gln Leu Arg Asn Thr Leu
 85 90 95
 Val Ala Asn Leu Ser Ser Gln Leu Pro Gly Trp Val Val Ala Ser Gln
 100 105 110
 Pro Leu Gly Ser Asp Gln Asp Thr Leu Asn Val Asn Val Thr Gly Phe
 115 120 125
 His Gly Arg Tyr Asp Gly Ala Val Val Ile Ser Gly Glu Trp Leu Leu
 130 135 140
 Asn His Gln Gly Gln Leu Ile Lys Arg Pro Phe His Leu Glu Leu Lys
 145 150 155 160
 Gln Gln Lys Asp Gly Tyr Asp Glu Met Val Lys Val Leu Ala Gln Gly
 165 170 175
 Trp Ala Gln Glu Ser Ala Ala Ile Ala Arg Glu Ile Ser Arg Leu Pro
 180 185 190

<210> 6433

<211> 675

<212> PRT

<213> Enterobacter cloacae

<400> 6433

Arg Val Val Gln Gly Gly Val His Phe Glu Gly Asp Thr Arg Leu Ile
 1 5 10 15
 Tyr Gln Ser Leu Met Trp Ser Arg Leu Ala Ser Arg Ile Met Leu Pro
 20 25 30
 Met Lys Glu Cys Lys Val Tyr Ser Asp Leu Asp Leu Tyr Thr Gly Val
 35 40 45
 Gln Met Ile Asp Trp Thr Glu Ile Phe Thr Pro Asp Ala Thr Phe Ala
 50 55 60
 Val His Phe Asn Gly Val Asn Asp Glu Ile Arg Asn Ser Gln Tyr Gly
 65 70 75 80
 Ala Leu Arg Val Lys Asp Ala Ile Val Asp Cys Phe Thr Arg Arg Asn
 85 90 95
 Lys Glu Arg Pro Asn Val Asp Arg Glu Asn Pro Asp Leu Arg Ile Asn

	100		105		110										
Val	Trp	Leu	Asn	Gly	Asp	Thr	Ala	Ser	Ile	Ser	Leu	Asp	Leu	Ser	Gly
	115						120					125			
Ala	Gly	Leu	His	Leu	Arg	Gly	Tyr	Arg	Asp	Arg	Thr	Gly	Met	Ala	Pro
	130					135					140				
Ile	Lys	Glu	Thr	Leu	Ala	Ala	Ala	Ile	Val	Met	Arg	Ser	Gly	Trp	Gln
	145				150					155					160
Pro	Gly	Thr	Pro	Leu	Leu	Asp	Pro	Met	Cys	Gly	Ser	Gly	Thr	Leu	Leu
				165					170						175
Ile	Glu	Ala	Ala	Met	Leu	Ala	Thr	Asp	Arg	Ala	Pro	Gly	Leu	His	Arg
			180					185					190		
Gly	His	Trp	Gly	Phe	Lys	Gly	Trp	Ala	Gln	His	Asp	Glu	Ala	Ile	Trp
	195						200					205			
Lys	Glu	Val	Lys	Asp	Asp	Ala	Gln	Thr	Arg	Ala	Arg	Lys	Gly	Leu	Ala
	210					215					220				
Glu	Tyr	Thr	Ser	His	Phe	Tyr	Gly	Ser	Asp	Ser	Asp	Ala	Arg	Val	Ile
	225				230					235					240
Glu	Arg	Ala	Arg	Ser	Asn	Ala	Arg	Arg	Ala	Gly	Ile	Gly	Glu	Leu	Val
				245					250						255
Thr	Phe	Glu	Val	Lys	Asp	Val	Ala	Asn	Leu	Thr	Asn	Pro	Leu	Pro	Lys
			260					265							270
Gly	Pro	Tyr	Gly	Thr	Val	Ile	Ser	Asn	Pro	Pro	Tyr	Gly	Glu	Arg	Leu
	275						280					285			
Asp	Ser	Glu	Pro	Ala	Leu	Ile	Ala	Leu	His	Ser	Leu	Leu	Gly	Arg	Asn
	290					295					300				
Met	Lys	Ala	His	Phe	Gly	Gly	Trp	Asn	Leu	Ser	Leu	Phe	Ser	Ala	Ser
	305				310					315					320
Pro	Glu	Leu	Leu	Ser	Cys	Leu	Gln	Leu	Arg	Ala	Asp	Arg	Gln	Phe	Lys
				325						330					335
Ala	Lys	Asn	Gly	Pro	Leu	Asp	Cys	Val	Gln	Lys	Asn	Tyr	His	Leu	Ala
			340					345							350
Glu	Ile	Ala	Ala	Asp	Ser	Lys	Pro	Ser	Gly	Val	Ala	Glu	Asp	Tyr	Ala
	355						360					365			
Asn	Arg	Leu	Arg	Lys	Asn	Leu	Lys	Lys	Phe	Glu	Lys	Trp	Ala	Lys	Gln
	370				375						380				
Glu	Gly	Ile	Glu	Cys	Tyr	Arg	Leu	Tyr	Asp	Ala	Asp	Leu	Pro	Glu	Tyr
	385				390					395					400
Asn	Val	Ala	Val	Asp	Arg	Tyr	Ala	Asp	Trp	Val	Val	Val	Gln	Glu	Tyr
			405						410						415
Ala	Pro	Pro	Lys	Thr	Ile	Asp	Ala	Gln	Lys	Ala	Arg	Gln	Arg	Met	Leu
			420					425							430
Asp	Val	Ile	Ala	Ala	Thr	Phe	Ala	Val	Leu	Gly	Ile	Ser	Pro	Asn	Lys
	435					440						445			
Leu	Val	Leu	Lys	Thr	Arg	Glu	Arg	Gln	Lys	Gly	Lys	Asn	Gln	Tyr	Gln
	450					455					460				
Lys	Met	Gly	Glu	Lys	Gly	Asp	Phe	Ile	Glu	Val	Gly	Glu	Tyr	Asn	Ala
	465				470				475						480
Arg	Leu	Trp	Val	Asn	Leu	Thr	Asp	Tyr	Leu	Asp	Thr	Gly	Leu	Phe	Leu
			485					490							495
Asp	His	Arg	Ile	Ala	Arg	Arg	Met	Leu	Gly	Gln	Met	Ser	Lys	Gly	Lys
	500							505					510		
Asp	Phe	Leu	Asn	Leu	Phe	Ser	Tyr	Thr	Gly	Ser	Ala	Ser	Val	His	Ala
	515						520					525			
Gly	Leu	Gly	Gly	Ala	Arg	Ser	Thr	Thr	Thr	Val	Asp	Met	Ser	Arg	Thr
	530					535					540				
Tyr	Leu	Glu	Trp	Ala	Glu	Arg	Asn	Leu	Arg	Leu	Asn	Gly	Leu	Thr	Gly
	545				550					555					560
Arg	Gln	His	Arg	Leu	Leu	Gln	Ala	Asp	Val	Leu	Gly	Trp	Leu	Arg	Asp
			565					570							575
Thr	Asp	Glu	Gln	Phe	Asp	Leu	Ile	Phe	Ile	Asp	Pro	Pro	Thr	Phe	Ser
		580						585							590

Asn Ser Lys Arg Met Glu Asp Ser Phe Asp Val Gln Arg Asp His Leu
 595 600 605
 Arg Leu Met Thr Asp Leu Lys Arg Leu Leu Arg Lys Gly Gly Thr Ile
 610 615 620
 Met Phe Ser Asn Asn Lys Arg Gly Phe Arg Met Asp His Asp Gly Leu
 625 630 635 640
 Ala Glu Leu Gly Leu Lys Ala Gln Glu Ile Ser Gln Lys Thr Leu Ser
 645 650 655
 Gln Asp Phe Ala Arg Asn Arg Gln Ile His Asn Cys Trp Leu Ile Ser
 660 665 670
 Ala Val
 675

<210> 6434

<211> 636

<212> PRT

<213> Enterobacter cloacae

<400> 6434

Met Ser Leu Ile Ser Met His Gly Ala Trp Leu Ser Phe Ser Asp Ser
 1 5 10 15
 Pro Leu Leu Asp Asn Ala Glu Leu His Ile Glu Asp Asn Glu Arg Val
 20 25 30
 Cys Leu Val Gly Arg Asn Gly Ala Gly Lys Ser Thr Leu Met Lys Ile
 35 40 45
 Leu Asn Arg Glu Gln Gly Leu Asp Asp Gly Arg Ile Val Tyr Glu Gln
 50 55 60
 Asp Leu Ile Val Ser Arg Leu Gln Gln Asp Pro Arg Asn Val Thr
 65 70 75 80
 Gly Ser Val Tyr Asp Phe Val Ala Glu Gly Ile Ser Glu Gln Ala Glu
 85 90 95
 Tyr Leu Lys Arg Tyr His Glu Ile Ser His Leu Val Met Thr Asp Pro
 100 105 110
 Ser Asp Lys Asn Leu Asn Glu Leu Ala Lys Val Gln Glu Met Leu Asp
 115 120 125
 His His Gly Leu Trp Gln Leu Glu Asn Arg Ile Asn Glu Val Leu Ala
 130 135 140
 Gln Leu Gly Leu Glu Ala Asp Met Glu Leu Ser Ala Leu Ser Gly Gly
 145 150 155 160
 Trp Leu Arg Lys Ala Ala Leu Gly Arg Ala Leu Val Ser Gly Pro Lys
 165 170 175
 Val Leu Leu Leu Asp Glu Pro Thr Asn His Leu Asp Ile Glu Ala Ile
 180 185 190
 Asp Trp Leu Glu Gly Phe Leu Lys Thr Phe Asn Gly Thr Ile Ile Phe
 195 200 205
 Ile Ser His Asp Arg Ser Phe Ile Arg Asn Met Ala Thr Arg Ile Val
 210 215 220
 Asp Leu Asp Arg Gly Lys Leu Val Thr Tyr Pro Gly Asp Tyr Asp Thr
 225 230 235 240
 Tyr Leu Leu Glu Lys Glu Glu Asn Leu Arg Val Glu Glu Leu Gln Asn
 245 250 255
 Ala Glu Phe Asp Arg Lys Leu Ala Gln Glu Glu Val Trp Ile Arg Gln
 260 265 270
 Gly Ile Lys Ala Arg Arg Thr Arg Asn Glu Gly Arg Val Arg Ala Leu
 275 280 285
 Lys Ala Met Arg Arg Glu Arg Ser Glu Arg Arg Glu Val Met Gly Ser
 290 295 300
 Ala Lys Met Gln Val Glu Glu Ala Ser Arg Ser Gly Lys Ile Val Phe
 305 310 315 320
 Glu Met Glu Asn Val Asn Tyr Ser Val Asp Gly Lys Val Leu Val Asn
 325 330 335

Asp Phe Ser Ala Gln Val Gln Arg Gly Asp Lys Ile Ala Leu Ile Gly
 340 345 350
 Pro Asn Gly Cys Gly Lys Thr Thr Leu Leu Lys Leu Met Leu Gly Gln
 355 360 365
 Leu Gln Ala Asp Ser Gly Arg Ile His Cys Gly Thr Lys Leu Glu Val
 370 375 380
 Ala Tyr Phe Asp Gln His Arg Ala Glu Leu Asp Pro Asp Arg Thr Val
 385 390 395 400
 Met Asp Asn Leu Ala Glu Gly Lys Gln Glu Val Met Val Asn Gly Lys
 405 410 415
 Pro Arg His Val Leu Gly Tyr Leu Gln Asp Phe Leu Phe His Pro Lys
 420 425 430
 Arg Ala Met Thr Pro Val Arg Ala Leu Ser Gly Gly Glu Arg Asn Arg
 435 440 445
 Leu Leu Leu Ala Arg Leu Phe Leu Lys Pro Ser Asn Leu Leu Ile Leu
 450 455 460
 Asp Glu Pro Thr Asn Asp Leu Asp Val Glu Thr Leu Glu Leu Leu Glu
 465 470 475 480
 Glu Leu Ile Asp Gly Tyr Gln Gly Thr Val Met Leu Val Ser His Asp
 485 490 495
 Arg Gln Phe Val Asp Asn Thr Val Thr Glu Cys Trp Ile Phe Glu Gly
 500 505 510
 Glu Gly Arg Ile Gly Gln Tyr Val Gly Gly Tyr His Asp Ala Arg Gly
 515 520 525
 Gln Gln Ser Gln Ser Leu Ala Gln Lys Gln Ala Lys Thr Lys Asn Val
 530 535 540
 Ala Glu Pro Val Val Ala Lys Ala Glu Thr Val Lys Lys Ser Pro Ala
 545 550 555 560
 Lys Met Ser Tyr Asn Leu Gln Arg Glu Leu Glu Gly Leu Pro Gln Arg
 565 570 575
 Leu Glu Glu Leu Glu Ala Ala Leu Glu Ala Leu Gln Ile Gln Val Ala
 580 585 590
 Asp Ala Ser Phe Phe Thr Gln Pro His Asp Tyr Thr Gln Lys Val Leu
 595 600 605
 Ala Glu Leu Ser Gln Ala Glu Gln Ala Leu Glu Glu Ala Phe Glu Arg
 610 615 620
 Trp Glu Tyr Leu Glu Ser Leu Lys Asn Gly Ala
 625 630 635

<210> 6435

<211> 552

<212> PRT

<213> Enterobacter cloacae

<400> 6435

Gly Arg Val Arg Ala Trp Lys Ile Arg Val Glu Arg Leu Lys Cys Arg
 1 5 10 15
 Arg Ser Glu Thr Gly Arg Arg Cys Gly Phe Ser Pro Ile Val Thr Ala
 20 25 30
 Leu Ile Gly Ala Trp Ile Leu Phe Tyr His Tyr Ser His Gln Gly Pro
 35 40 45
 Glu Val Thr Leu Ile Thr Thr Asn Ala Glu Gly Ile Glu Gly Gly Lys
 50 55 60
 Thr Thr Ile Lys Ser Arg Ser Val Asp Val Gly Val Val Glu Ser Ala
 65 70 75 80
 Thr Leu Thr Asp Asp Leu Thr His Val Glu Ile Lys Ala Arg Leu Asn
 85 90 95
 Ala Gly Met Glu Lys Leu Leu His Glu Asp Ser Val Phe Trp Val Val
 100 105 110
 Lys Pro Gln Val Gly Arg Glu Gly Ile Ser Gly Leu Gly Thr Leu Leu
 115 120 125

Ser Gly Ala Tyr Ile Glu Leu Gln Pro Gly Asn Lys Gly Ala Gln Pro
 130 135 140
 Ala Asn Tyr Gln Leu Leu Asp Ser Pro Pro Leu Ala Pro Pro Asp Ala
 145 150 155 160
 Lys Gly Ile Arg Val Ile Leu Asp Ser Lys Lys Ala Gly Gln Leu Ser
 165 170 175
 Pro Gly Asp Pro Val Leu Phe Arg Gly Tyr Arg Val Gly Ser Val Glu
 180 185 190
 Thr Ser Thr Phe Asp Pro Gln Lys Arg Thr Ile Ser Tyr Gln Leu Phe
 195 200 205
 Ile Asn Ala Pro Asn Asp Arg Leu Val Thr Ser Asn Val Arg Phe Trp
 210 215 220
 Lys Asp Ser Gly Ile Ala Val Asp Leu Thr Ser Ala Gly Met Arg Val
 225 230 235 240
 Glu Met Gly Ser Leu Thr Thr Leu Phe Gly Gly Gly Val Ser Phe Asp
 245 250 255
 Val Pro Glu Gly Ile Asp Leu Gly Gln Pro Val Ala Glu Lys Thr Ala
 260 265 270
 Phe Arg Leu Phe Asp Asp Gln Lys Ser Ile Gln Asp Ala Leu Tyr Thr
 275 280 285
 Asp His Ile Asp Tyr Leu Met Phe Phe Lys Asp Ser Val Arg Gly Leu
 290 295 300
 Gln Pro Gly Ala Pro Val Glu Phe Arg Gly Ile Arg Leu Gly Thr Val
 305 310 315 320
 Gly Gln Val Pro Tyr Phe Val Pro Gly Leu Lys Gln Met Leu Asp Asp
 325 330 335
 Asp Tyr Arg Ile Pro Val Leu Ile Arg Ile Glu Pro Glu Arg Leu Ile
 340 345 350
 Asn Gln Ile Gly Glu Asp Gln Asp Ile Gly Glu His Ile Ser Asp Leu
 355 360 365
 Leu Asn Arg Gly Leu Arg Gly Ser Leu Lys Thr Gly Asn Leu Val Thr
 370 375 380
 Gly Ala Leu Tyr Val Asp Met Asp Phe Tyr Pro Lys Ala Pro Pro Met
 385 390 395 400
 Thr Gly Val Arg Glu Phe Gly Gly Tyr Lys Ile Ile Pro Thr Val Ser
 405 410 415
 Ser Gly Leu Ala Gln Ile Gln Gln Arg Leu Met Glu Thr Leu Asp Lys
 420 425 430
 Ile Asn Asn Leu Pro Leu Asn Pro Met Leu Glu Ala Ala Thr Gly Ser
 435 440 445
 Leu His Gln Ser Gln Ala Thr Met Leu Arg Leu Gln Thr Thr Leu Asp
 450 455 460
 Asn Ile Asn Lys Ile Thr Ala Asn Gln Ser Met Gln Gln Leu Pro Gln
 465 470 475 480
 Asp Met Gln Lys Thr Leu Arg Glu Leu Asn Arg Ser Met Gln Gly Phe
 485 490 495
 Gln Pro Gly Ser Ala Ala Tyr Asn Lys Met Val Ala Asp Met Gln Arg
 500 505 510
 Leu Asp Gln Val Leu Arg Glu Leu Gln Pro Val Leu Lys Thr Leu Asn
 515 520 525
 Glu Lys Ser Asn Ala Leu Val Phe Glu Ala Lys Asp Lys Lys Asp Pro
 530 535 540
 Glu Pro Lys Arg Ala Lys Gln
 545 550

<210> 6436

<211> 133

<212> PRT

<213> Enterobacter cloacae

<400> 6436

Val Phe Tyr Phe Ser Asn Thr Thr Arg Cys Phe Tyr Cys Asp Glu Asn
 1 5 10 15
 Asn Ile Ser Arg Pro Glu Asp Ala Ile Glu Val Ser Glu Gln Asp Val
 20 25 30
 His Lys Tyr Ser Gly Gln Asn Pro Gln Trp Met Leu Pro Asn Val Ser
 35 40 45
 Glu Gly Gly Lys Met Glu Trp Ile Asp Asp Ile Ser Ile Asp Lys Arg
 50 55 60
 Thr Ala Arg Tyr Glu Ile Asn Lys Gln Glu Lys Glu Arg Leu Leu Asn
 65 70 75 80
 Arg Thr Ile Lys Glu Arg Tyr Thr Leu Glu Val Ile Gly Gln Thr Ser
 85 90 95
 Val Leu Ser Val Glu Gln Ser Thr Met Met Gln Ser Leu Ser Ala Tyr
 100 105 110
 Ile Asn Glu Leu Asn Gln Val Asp Leu Tyr Ala Asp Asn Pro Val Trp
 115 120 125
 Pro Ile His Pro
 130

<210> 6437

<211> 358

<212> PRT

<213> Enterobacter cloacae

<400> 6437

Glu Val Asn Met Thr Thr Asp Phe Leu His Gly Val Arg Thr Ile Glu
 1 5 10 15
 Tyr Asp Asp Gly Thr Glu Glu Ile Ser Thr Val Thr Val Ser Val Ile
 20 25 30
 Gly Ile Val Gly Thr Ala Pro Asp Ser Thr Ala Ala Thr Cys Ala Ser
 35 40 45
 Leu Val Thr Gly Ser Glu Leu Thr Asn Asn Lys Ile Thr Trp Gln Ala
 50 55 60
 Glu Asp Ala Gly Ile Lys Gly Asn Ser Phe Ser Val Glu Ile Val Pro
 65 70 75 80
 Gly Asp Val Tyr Pro Ala Asn Thr Lys Trp Gly Gly Asp Val Asn Tyr
 85 90 95
 Ser Thr Ile Tyr His Tyr Ser Ile Lys Pro Asp Gly Ser Leu Lys Leu
 100 105 110
 Ser Val Arg Met Pro Val Asp Ser Asp Gly Lys Lys Leu Met Asn Ala
 115 120 125
 Glu Leu Ile Thr Ser Ile Trp Asp Met Val Pro Pro Leu Asp Asn Tyr
 130 135 140
 Cys Arg Ile Lys Ala Ile Ile Tyr Ser Thr Ser Asn Asp Asn Gly Lys
 145 150 155 160
 Val Met Tyr Met Ser Glu Thr Asn Leu Ala Gly Gly Ala Asp Glu Ala
 165 170 175
 Phe Pro Leu Asn Val Pro Thr Val Ile Ala Gly Ser Thr Thr Lys Ala
 180 185 190
 Ala Lys Leu Gly Ala Thr Gly Thr Leu Pro Ala Asp Ile Asn Asp Ile
 195 200 205
 Phe Asn Gln Thr Arg Ala Leu Ile Val Val Arg Val Ala Asp Asp
 210 215 220
 Ala Asp Ala Ser Lys Leu Gln Gln Asn Val Ile Ala Gly Leu Asn Thr
 225 230 235 240
 Leu Pro Ser Ser Gly Gln Leu Asn Glu Val Met Pro Arg Ile Ile Ile
 245 250 255
 Ala Pro Asp Phe Ser Ala Thr Asp Pro Val Ala Val Gln Ile Glu Val
 260 265 270
 Ile Ala Asn Lys Val Arg Gly Val Gly Tyr Ile Asp Ser Pro Ser Phe
 275 280 285

Ala Thr Ala Lys Asp Val Ala Leu Arg Arg Gln Ser Tyr Gly Lys Arg
 290 295 300
 Val Glu Ile Leu Arg Pro Arg Val Phe Thr Thr Ser Ser Ala Gly Ser
 305 310 315 320
 Thr Ser Arg Ala Tyr Ser Ala Ser Ala Ala Gly Leu Arg Cys Pro Ile
 325 330 335
 Asp Asn Lys Lys Gly Phe Trp Trp Ser Lys Ser Asn Gln Gln Ile Met
 340 345 350
 Gly Arg Asp Ser Thr
 355

<210> 6438

<211> 194

<212> PRT

<213> Enterobacter cloacae

<400> 6438

Thr Arg His Arg Ser Leu Leu Leu Lys Met Trp Pro Cys Ala Gly Arg
 1 5 10 15
 Val Thr Glu Ser Ala Ser Lys Ser Tyr Ala Arg Ala Cys Leu Leu Pro
 20 25 30
 Val Gln Arg Val Ala Arg His Ala His Ile Gln Arg Ala Arg Arg Ala
 35 40 45
 Tyr Val Val Gln Leu Ile Thr Arg Lys Ala Phe Gly Gly Val Ser Pro
 50 55 60
 Ile Asn Lys Ser Trp Gly Val Thr Ala Leu Glu Gln Val Asp Glu Tyr
 65 70 75 80
 Ile Ile Gly Asp Asp Thr Cys Val Val Asn Leu Leu Asn Lys Asn Gln
 85 90 95
 Val Ser Thr Ile Val Arg Arg Ser Gly Phe Lys His Trp Gly Asn Tyr
 100 105 110
 Leu Cys Ser Thr Asp Pro Pro Trp Ala Phe Glu Cys Val Arg Arg Thr
 115 120 125
 Ala Asp Val Ile Glu Asp Ser Ile Ala Asp Thr Val Glu Asn Glu Phe
 130 135 140
 Ile Asp Arg Pro Ile Asp Leu His Leu Gly Asp Asp Ile Ile Glu Ser
 145 150 155 160
 Ile Asn Gly Phe Ile Arg Tyr Leu Phe Asp Ile Gly Ala Ile Asn Gly
 165 170 175
 Gly Lys Ala Trp Leu Asp Pro Glu Leu Asn Thr Lys Glu Ser Leu Ala
 180 185 190
 Gly

<210> 6439

<211> 175

<212> PRT

<213> Enterobacter cloacae

<400> 6439

Lys Gly Ile Lys Met Ala Glu Ala Asn Val Tyr Arg Ala His Ala Leu
 1 5 10 15
 Trp Val Gln Gly Arg Leu Val Cys Gly Cys Glu Ser Tyr Thr Pro Val
 20 25 30
 Asp Met Lys Ile Ile Glu Asp Glu Phe Lys Thr Gly Ser Met Asp Met
 35 40 45
 Ala Met Thr Leu Asp Gly Gly Met Glu Arg Met Gly Ala Ser Phe Lys
 50 55 60
 Val Lys Gly Ser Asp Val Asp Val Met Ser Met Phe Gly Phe Ile Pro
 65 70 75 80
 Gly Val Arg Thr Arg Phe Glu Ile Arg Ser Ala Phe Val Thr Asn Ser

				85					90					95		
Gly	Glu	Thr	Ile	Ile	Arg	Lys	Asp	Phe	Tyr	Glu	Gly	Pro	Ile	Thr	Gly	
			100					105					110			
Ile	Thr	Asp	Asp	Glu	Glu	Gly	Thr	Asp	Ser	Lys	Ser	Gly	Val	Gly	Gln	
		115					120					125				
Thr	Val	Thr	Ile	Ala	Pro	Asn	Tyr	Phe	Lys	Arg	Ile	Gln	Gly	Asp	Lys	
		130				135					140					
Glu	Ile	Tyr	Glu	Ile	His	Pro	Ala	Lys	Met	Ile	Arg	Arg	Val	Asn	Gly	
145					150				155						160	
Val	Asn	Val	Leu	Gly	Glu	Ile	Ala	Ser	Gly	Leu	Lys	Ile	Tyr			
			165						170					175		

<210> 6440

<211> 513

<212> PRT

<213> Enterobacter cloacae

<400> 6440

Gly	Ser	Tyr	Val	Lys	Lys	Met	Ala	Ile	Ser	Gln	Asn	Phe	Arg	Ser	Thr
1				5					10					15	
Val	Thr	Phe	Gly	Gly	Arg	Val	Asp	Pro	Ser	Phe	Arg	Arg	Gly	Ser	Asp
			20				25					30			
Glu	Leu	Lys	Gly	Ala	Ile	Lys	Glu	Ala	Gly	Gln	Ser	Val	Ser	Gln	Leu
		35					40					45			
Thr	Lys	Arg	Gln	Glu	Lys	Leu	Lys	Gln	Gln	Met	Ala	Ser	Leu	Lys	Leu
	50					55				60					
Ala	Gly	Lys	Asp	Val	Ser	Ala	Leu	Ile	Lys	Gln	Tyr	Glu	Lys	Leu	Ser
65				70					75					80	
Arg	Gln	Ile	Val	Asn	Ala	Thr	Glu	Asp	Gln	Glu	Lys	Leu	Asn	Gln	Gln
				85				90					95		
Leu	Lys	Arg	Gln	Glu	Arg	Leu	Asp	Lys	Trp	Lys	Gly	Arg	Ala	Ala	Ala
			100				105						110		
Val	Pro	Lys	Trp	Ala	Gly	Lys	Ala	Ala	Trp	Gly	Ala	Ala	Lys	Gly	Leu
		115					120					125			
Ala	Phe	Ser	Ser	Leu	Ala	Pro	Ala	Ala	Met	Phe	Ala	Gly	Ala	Ile	Gln
130					135					140					
Met	Asn	Ser	Glu	Thr	Ser	Glu	Lys	Leu	Gly	Leu	Ala	Lys	Ser	Tyr	Gly
145				150					155						160
Val	Gly	Ile	Asp	Lys	Tyr	Gly	Ala	Trp	Glu	Asn	Ile	Ala	Lys	Lys	Ala
			165					170						175	
Gly	Leu	Asn	Gly	Glu	Asn	Val	Gly	Asp	Leu	Ala	Glu	Glu	Leu	Thr	Asn
		180					185						190		
Lys	Ile	Gly	Glu	Lys	Asp	Asn	Glu	Lys	Thr	Phe	Asn	Pro	Met	Leu	Ala
	195					200						205			
Gln	Ile	Asn	Leu	Ser	Lys	Arg	Met	Ala	Gly	Trp	Ser	Arg	Glu	Lys	
	210				215					220					
Gln	Phe	Asp	Glu	Val	Met	Ser	Arg	Ile	Ser	Arg	Met	Lys	Asp	Glu	Lys
225				230					235					240	
Gln	Ala	Ala	Ser	Leu	Ala	Asp	Gln	Leu	Met	Gly	Gly	Glu	Ala	Asn	Lys
			245					250						255	
Ile	Met	Thr	Tyr	Met	Arg	Met	Thr	Gly	Lys	Thr	Trp	Glu	Gln	Thr	Met
		260					265						270		
Ala	Lys	Ala	Lys	Lys	Ser	Asn	Leu	Leu	Thr	Gln	Glu	Gly	Ala	Glu	Gly
	275					280					285				
Ala	Ala	Arg	Ala	His	Phe	Ala	Val	Thr	Asn	Leu	Trp	Gly	Ala	Ile	Thr
	290				295					300					
Ser	Gly	Leu	Ser	Asp	Thr	Leu	Gly	Lys	Ile	Gly	Gly	Glu	Leu	Glu	Pro
305				310					315						320
Asp	Ile	Asn	Arg	Phe	Lys	Glu	Ser	Thr	Ile	Ser	Trp	Phe	Lys	Glu	Asn
			325					330						335	
Gln	Gly	Ala	Phe	Val	Glu	Gly	Ile	Arg	Asn	Trp	Ile	Lys	Pro	Asp	Glu


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          340                      345                      350
Ser Gly Arg Thr Gly Pro Gln Arg Leu Phe Asp Thr Val Lys Lys Phe
      355                      360                      365
Gly Glu Gly Leu Leu Glu Leu Gly Lys Ile Val Trp Ala Val Ala Lys
      370                      375                      380
Lys Leu Ala Trp Ile Leu Pro Asp Asp Glu Lys Asn Gln Ala Lys Ile
      385                      390                      395                      400
Asp Glu Phe Val Lys Asn Gly Asn Ser Tyr Glu Gly Ala Lys Ser Leu
      405                      410                      415
Ala Asp Glu Tyr Gly Leu Glu Asp Trp Phe Lys Glu Asn Tyr Thr Pro
      420                      425                      430
Glu Lys Val Ala Ala Ala Gln Gln Lys Ala Ala Gly Glu Gly Glu Thr
      435                      440                      445
Pro Ala Ala Leu Ala Lys Arg Gln Ala Ser Gln Pro Val Gly Tyr Gly
      450                      455                      460
Asn Tyr Ser Pro Arg Val Glu Ile Asn Val Gln Ala Leu Pro Gly Gln
      465                      470                      475                      480
Ser Ala Glu Glu Val Gly Gln Ser Thr Tyr Ala Ala Phe Lys Ala Gly
      485                      490                      495
Leu Pro Thr Ala Pro Gly Gly Ser Gly Ala Met Tyr Asp Ile Pro Gly
      500                      505                      510

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<210> 6441
<211> 73
<212> PRT
<213> Enterobacter cloacae

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```

<400> 6441
Phe Met Ala Ile Thr Tyr Thr Thr Arg Asp Gly Asp Arg Leu Asp Thr
1          5          10          15
Ile Cys Leu Lys Ile Tyr Gly Lys Thr Gly Lys Thr Thr Glu Glu Val
      20          25          30
Leu Tyr Gln Val Ala Asn Tyr Gly Val Val Asp Met Cys Ala Val Phe
      35          40          45
Pro Ala Gly Lys Glu Ile Val Leu Pro Glu Ile Ser Ser Glu Pro Ile
      50          55          60
Val Glu Ala Thr Gln Leu Trp Glu
65          70

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```

<210> 6442
<211> 103
<212> PRT
<213> Enterobacter cloacae

```

```

<400> 6442
Arg Ser Val Arg Ala Ala Phe Gln Tyr Asp Tyr Ser Trp Asn Lys Ser
1          5          10          15
Met Ala Arg Ile Ser Gly Ile Tyr Ala Asn Gly Phe Gly Glu Pro Val
      20          25          30
Ala Gly Val Cys Ile Leu Leu Thr Ala Arg Ala Thr Ser Ser Gly Val
      35          40          45
Val Met Ala Thr Thr Ala Asn Gln Val Thr Gly Glu Asp Gly Ser Tyr
      50          55          60
Gly Phe Asp Leu Arg Pro Gly Val Tyr Val Val Thr Ala Asn Gly Leu
65          70          75          80
Tyr Leu Gly Val Ile Thr Val Ser Asp Asp Ser Gln Asp Gly Thr Leu
      85          90          95
Asn Asp Tyr Leu Val Ile
      100

```

<210> 6443
 <211> 302
 <212> PRT
 <213> Enterobacter cloacae

<400> 6443

```

Lys Leu Val Met Val Ile Val Cys His Asn Thr Arg Gln Thr Arg Arg
1      5      10      15
Arg Phe Ile Met Ile Ala Ile Thr Gly Ala Thr Gly Gln Leu Gly Gln
20     25     30
His Val Ile Glu Glu Leu Leu Lys Thr Val Pro Ala Ser Gln Ile Val
35     40     45
Ala Ile Val Arg Asn Leu Ala Lys Ala Glu Ala Leu Arg Gln Gln Gly
50     55     60
Val Val Val Arg Gln Ala Asp Tyr Thr Asp Glu Ala Ala Phe Thr Thr
65     70     75     80
Ala Leu Asn Gly Val Asp Lys Leu Leu Leu Ile Ser Ser Ser Glu Val
85     90     95
Gly Gln Arg Ala Val Gln His Gln Asn Val Ile Asn Ala Ala Lys Ala
100    105    110
Ala Gly Val Lys Phe Ile Ala Tyr Thr Ser Leu Leu His Ala Asp Lys
115    120    125
Ser Pro Leu Gly Leu His Val Glu His Val Glu Thr Glu Asn Ala Leu
130    135    140
Ala Ala Ser Gly Val Pro Tyr Ala Leu Leu Arg Asn Gly Trp Tyr Thr
145    150    155    160
Glu Asn Tyr Leu Ala Ser Ala Pro Pro Ala Leu Glu His Gly Val Phe
165    170    175
Met Gly Ala Ala Gly Glu Gly Lys Ile Ala Ser Ala Thr Arg Ala Asp
180    185    190
Tyr Ala Ala Ala Ala Ala Lys Val Ile Ser Glu Glu Gly His Ala Gly
195    200    205
Lys Val Tyr Glu Leu Ala Gly Asp Asn Ala Trp Thr Leu Ser Glu Leu
210    215    220
Ala Ala Glu Leu Ser Lys Gln Ser Gly Lys Pro Val Thr Tyr Gln Asn
225    230    235    240
Leu Ser Glu Ala Asp Phe Ala Ala Ala Leu Lys Gly Val Gly Leu Pro
245    250    255
Ala Gly Leu Ala Glu Met Leu Ala Asp Ser Asp Thr Gly Ala Ser Lys
260    265    270
Gly Gly Leu Phe Asp Asp Ser His Thr Leu Ser Lys Leu Ile Gly Arg
275    280    285
Pro Thr Thr Pro Leu Ala Glu Ser Val Lys Ala Ile Leu
290    295    300

```

<210> 6444
 <211> 281
 <212> PRT
 <213> Enterobacter cloacae

<400> 6444

```

Pro Thr Arg Arg Leu Thr Val Gln Gly Val Pro Glu Gln Phe Thr Asp
1      5      10      15
Glu Arg Asp Ser Ala Arg Phe Arg His Leu Ala Gln Leu Pro Gly Leu
20     25     30
Glu Leu Tyr His Ala His Ile Ser Asp Tyr Ala Phe Glu Pro His Thr
35     40     45
His Glu Ala Phe Gly Ile Gly Thr Ile Glu Thr Gly Ala Glu Arg Phe
50     55     60
Arg Tyr Arg Gly Thr Gln His Leu Ala Ala Glu Lys Ser Val Val Thr

```

65					70					75				80
Met	Asn	Pro	Asp	Glu	Ile	His	Thr	Gly	Glu	Ser	Ala	Thr	Glu	Gly
				85					90				95	
Trp	Arg	Tyr	Arg	Met	Val	Tyr	Ile	Glu	Pro	Asp	Leu	Leu	Glu	Val
			100					105					110	
Thr	Gly	Leu	Arg	His	Trp	Trp	Phe	Ser	Asp	Val	Thr	Arg	His	Asp
			115				120					125		Pro
Leu	Arg	Ser	Gln	Gln	Ile	Gly	Gln	Leu	Ile	Tyr	Gly	Leu	Trp	His
			130			135					140			Thr
Asp	Asp	Pro	Leu	Ala	Gln	Lys	Gly	Leu	Leu	Leu	Asp	Leu	Ile	Gln
					150					155				160
Phe	Gln	Pro	Leu	Ala	His	His	Ala	Pro	Val	Val	Gln	Glu	Ala	Thr
				165					170					175
Arg	Phe	Glu	Arg	Val	Arg	Asp	Tyr	Leu	His	Asp	Asn	Tyr	Met	Arg
			180					185					190	Ser
Leu	Thr	Leu	Asp	Glu	Leu	Ala	Asn	Val	Val	Ser	Leu	Ser	Pro	Tyr
			195				200					205		His
Phe	Gln	Arg	Gln	Phe	Lys	Ala	His	Phe	His	Val	Thr	Pro	His	Gln
			210			215					220			Met
Leu	Met	Ala	Ile	Arg	Leu	Trp	Arg	Ala	Lys	Ala	Phe	Leu	Thr	His
					230					235				Gly
Met	Pro	Ala	Ala	Glu	Val	Ala	Ala	Ala	Thr	Gly	Leu	Thr	Asp	Gln
				245					250					255
His	Leu	Thr	Arg	Ala	Phe	Thr	Arg	Arg	Tyr	Gly	Ile	Thr	Pro	Val
			260				265						270	Arg
Tyr	Gln	Lys	Gln	Val	Met	Pro	Arg							
			275				280							

<210> 6445

<211> 328

<212> PRT

<213> Enterobacter cloacae

<400> 6445

Ile	Lys	Met	Asp	Gly	Lys	Met	Ile	Ser	Gly	Val	Leu	Tyr	Ala	Leu	Leu
1				5				10						15	
Ala	Gly	Leu	Met	Trp	Gly	Leu	Ile	Phe	Val	Gly	Pro	Leu	Ile	Val	Pro
			20					25					30		
Glu	Tyr	Pro	Ala	Ile	Leu	Gln	Ser	Thr	Gly	Arg	Tyr	Leu	Ala	Leu	Gly
			35			40					45				
Leu	Ile	Ala	Val	Pro	Leu	Ala	Trp	Leu	Gly	Arg	Thr	Arg	Leu	Arg	Gln
			50			55				60					
Leu	Gly	Arg	Gln	Asp	Trp	Leu	Thr	Ala	Leu	Ala	Leu	Thr	Met	Met	Gly
				70					75					80	
Asn	Leu	Ile	Tyr	Tyr	Val	Cys	Leu	Ala	Ser	Ala	Ile	Gln	Arg	Thr	Gly
			85					90					95		
Ala	Pro	Val	Ser	Thr	Met	Ile	Ile	Gly	Thr	Leu	Pro	Val	Val	Ile	Pro
			100					105					110		
Val	Phe	Ala	Asn	Leu	Leu	Tyr	Ser	Gln	Arg	Asp	Gly	Lys	Leu	Ala	Trp
			115				120					125			
Ser	Lys	Met	Ala	Pro	Ala	Leu	Val	Cys	Ile	Ala	Val	Gly	Leu	Val	Cys
			130			135					140				
Val	Asn	Ile	Ala	Glu	Leu	Arg	His	Gly	Leu	Glu	Asn	Phe	Ser	Val	Trp
				150					155					160	
Arg	Tyr	Gly	Ser	Gly	Ile	Phe	Leu	Ala	Phe	Ile	Ser	Val	Val	Cys	Trp
			165					170						175	
Ala	Trp	Tyr	Ala	Leu	Arg	Asn	Ala	Arg	Trp	Leu	Arg	Glu	Asn	Pro	Asp
			180				185						190		
Lys	His	Pro	Met	Met	Trp	Ala	Thr	Ala	Gln	Ala	Leu	Val	Thr	Leu	Pro
			195				200					205			
Val	Ser	Leu	Leu	Gly	Tyr	Val	Gly	Ala	Cys	Val	Trp	Leu	Gly	Ser	Gln

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      210              215              220
Gln Pro Ala Phe Thr Leu Pro Phe Gly Pro Arg Pro Trp Val Phe Val
225              230              235
Gly Leu Met Val Ala Ile Ala Val Leu Cys Ser Trp Val Gly Ala Leu
      245              250              255
Cys Trp Asn Ile Ala Ser Gln Lys Leu Pro Thr Val Ile Leu Gly Pro
      260              265              270
Leu Ile Val Phe Glu Thr Leu Ala Gly Leu Leu Tyr Thr Phe Leu Met
      275              280              285
Arg Gln Ser Val Pro Pro Leu Thr Ala Cys Gly Ile Ala Leu Leu
      290              295              300
Val Val Gly Val Val Ile Ala Val Arg Ala Lys Pro Glu Lys Pro Met
305              310              315              320
Val Val Pro Ala Ser Glu Gly
      325

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<210> 6446

<211> 233

<212> PRT

<213> Enterobacter cloacae

<400> 6446

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Asn Ala Ser Tyr Ile Ser Asp Asp Glu Val Thr Ala Met Ala Phe Arg
1      5      10      15
Asp Gln Pro Leu Gly Glu Leu Ala Leu Ser Ile Pro Arg Ala Ser Ala
      20      25      30
Leu Phe Arg Lys Tyr Asp Met Asp Tyr Cys Cys Gly Gly Lys Gln Thr
      35      40      45
Leu Ala Arg Ala Ala Ser Arg Lys Glu Leu Asp Val Glu Ala Ile Glu
      50      55      60
Ala Glu Leu Ala Gln Leu Ala Glu Gln Pro Val Asp Lys Asp Trp Arg
      65      70      75      80
Thr Ala Pro Leu Ala Glu Ile Ile Asp His Ile Ile Val Arg Tyr His
      85      90      95
Asp Arg His Arg Glu Gln Leu Pro Glu Leu Ile Leu Gln Ala Thr Lys
      100      105      110
Val Glu Arg Val His Ala Asp Lys Pro Ser Val Pro Arg Gly Leu Ala
      115      120      125
Lys Tyr Leu Thr Met Leu His Glu Glu Leu Ser Ser His Met Met Lys
      130      135      140
Glu Glu Gln Ile Leu Phe Pro Met Ile Lys Gln Gly Met Gly Ser Gln
      145      150      155      160
Ala Met Gly Pro Ile Ser Val Met Glu Ser Glu His Asp Asp Ala Gly
      165      170      175
Glu Leu Leu Glu Val Ile Lys His Thr Thr Asp Asn Val Thr Pro Pro
      180      185      190
Pro Glu Ala Cys Thr Thr Trp Lys Ala Met Tyr Asn Gly Ile Asn Glu
      195      200      205
Met Ile Asp Asp Leu Met Glu His Ile Ser Leu Glu Asn Asn Val Leu
      210      215      220
Phe Pro Arg Ala Leu Ala Gly Glu
      225      230

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<210> 6447

<211> 139

<212> PRT

<213> Enterobacter cloacae

<400> 6447

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Leu Leu Val Ser Thr Tyr Lys Lys Val Ser Met Lys Thr Thr Ile Pro
1      5      10      15

```

Thr Leu Ser Glu Gln Met Arg Asp Gly Asn Leu Phe Ala Glu Gln Cys
 20 25 30
 Pro Ser Arg Glu Val Leu Lys His Val Thr Ser Arg Trp Gly Val Leu
 35 40 45
 Ile Leu Val Ala Leu Arg Gln Gly Thr His Arg Phe Ser Asp Leu Arg
 50 55 60
 Arg Lys Met Gly Gly Val Ser Glu Lys Met Leu Ala Gln Ser Leu Gln
 65 70 75 80
 Ala Leu Glu His Asp Gly Phe Val Asp Arg Val Ser Tyr Pro Val Val
 85 90 95
 Pro Pro His Val Glu Tyr Ser Leu Thr Pro Leu Gly Arg Glu Val Ser
 100 105 110
 Glu Lys Val Ala Ala Leu Ala Asp Trp Ile Glu Val Asn Thr Pro Gln
 115 120 125
 Val Met Ala Asn Arg Asp Glu Arg Ala Ala
 130 135

<210> 6448

<211> 554

<212> PRT

<213> Enterobacter cloacae

<400> 6448

Lys Arg Gln Arg Met Phe Lys Arg Ile Lys Val Ile Thr Leu Leu Ile
 1 5 10 15
 Ser Val Leu Leu Val Leu Gly Ile Met Gln Leu Ile Ser Ala Gly Ile
 20 25 30
 Phe Ile Asn Ala Leu Asn Asn Asp Lys Glu Asn Phe Thr Val Ser Gln
 35 40 45
 Leu Ser Ser Gln Asn Val Ala Glu Phe Thr Asp Ala Trp Ile Ser Leu
 50 55 60
 Asn Gln Ala Arg Val Thr Leu Asn Arg Gly Met Leu Arg Leu Gln Ser
 65 70 75 80
 Ser Met Ala Ser Gln Ile Asn Gly Gly Gln Leu Asn Glu Leu Val Asn
 85 90 95
 Thr Ala Lys Asn Leu Leu Ala Asp Ala Gln Thr His Tyr Asp Lys Tyr
 100 105 110
 Tyr Ala Leu Pro Glu Thr Pro Gly Met Asp Glu His Leu Ala Asp Arg
 115 120 125
 Leu Glu Glu Gln Tyr Arg Val Tyr Ser Ala Thr Leu Thr Gln Met Asn
 130 135 140
 Val Leu Leu Gly Gln Gly Asn Leu Glu Asp Met Phe Lys Gln Asn Ala
 145 150 155 160
 Glu Gln Lys Gln Thr Ala Met Gln Lys Val Tyr Arg Glu Trp Arg Glu
 165 170 175
 Ala Gln Ala Ala Leu Thr Ala Lys Gly Ile Gln Asp Asn Glu Ser Asp
 180 185 190
 Tyr Lys Arg Ile Leu Trp Ile Leu Ser Ala Val Met Leu Leu Val Ile
 195 200 205
 Ala Val Ile Ile Ser Ser Trp Ile Ala Met Arg Arg Val Leu Leu Leu
 210 215 220
 Pro Leu Glu Glu Val Ile Asn His Ile Arg Ala Ile Ala Ala Gly Asp
 225 230 235 240
 Leu Thr Gln Pro Ile Gln Ala Glu Gly Lys Asn Glu Met Ala Ile Leu
 245 250 255
 Ala Arg Asn Val Gln Glu Met Gln Thr Ala Leu Ala Asn Thr Val Gly
 260 265 270
 Val Val Arg Glu Gly Ala Asp Thr Ile Tyr Thr Gly Ala Gly Glu Ile
 275 280 285
 Ser Ala Gly Ser Asn Asp Leu Ser Ser Arg Thr Glu Gln Gln Ala Ala
 290 295 300

Ser Leu Glu Glu Thr Ala Ala Ser Met Glu Gln Leu Thr Ala Thr Val
 305 310 315 320
 Lys Gln Asn Ala Asp Asn Ala Arg Gln Ala Ser Arg Leu Ala Leu Asp
 325 330 335
 Ala Ser Ser Thr Ala Lys Lys Gly Gly Asn Val Val Glu Gly Val Val
 340 345 350
 Arg Thr Met Asp Glu Ile Ala Thr Ser Ser Ser Lys Ile Ala Gln Ile
 355 360 365
 Thr Asn Val Ile Asp Gly Ile Ala Phe Gln Thr Asn Ile Leu Ala Leu
 370 375 380
 Asn Ala Ala Val Glu Ala Ala Arg Ala Gly Glu Gln Gly Arg Gly Phe
 385 390 395 400
 Ala Val Val Ala Gly Glu Val Arg Thr Leu Ala Gln Arg Ser Ala Gln
 405 410 415
 Ala Ala Lys Glu Ile Lys Ala Leu Ile Asp Asp Ser Gly Glu Arg Val
 420 425 430
 Asn Ala Gly Ser Gln Leu Val Asn Glu Ala Gly Ala Thr Met Ala Glu
 435 440 445
 Ile Val Asn Ala Val Thr Arg Val Thr Asp Ile Met Gly Glu Ile Ala
 450 455 460
 Ser Ala Ser Asp Glu Gln Ser Arg Gly Ile Asp Gln Val Gly Gln Ala
 465 470 475 480
 Val Ala Glu Met Asp Arg Val Thr Gln Gln Asn Ala Ser Leu Val Glu
 485 490 495
 Glu Ser Ala Ala Ala Ala Ala Ala Leu Glu Asp Gln Ala Ala Arg Leu
 500 505 510
 Asn Asp Ala Val Ala Val Phe Lys Ile Thr Arg Asn Gln Ala Val Lys
 515 520 525
 Ala Ala Pro Val Lys Thr Tyr Ala Pro Lys Ala Gln Pro Val Ala Ala
 530 535 540
 Ala Ser Glu Ala Asn Trp Glu Thr Phe
 545 550

<210> 6449

<211> 240

<212> PRT

<213> Enterobacter cloacae

<400> 6449

Asp Asp Glu His Met Asp Gly Trp Gln Arg Ala Phe Val Leu His Ser
 1 5 10 15
 Arg Pro Trp Ser Glu Thr Ser Leu Met Leu Asp Val Phe Thr Glu Glu
 20 25 30
 Ser Gly Arg Val Arg Leu Val Ala Lys Gly Ala Arg Ser Arg Arg Ser
 35 40 45
 Asn Leu Lys Gly Ala Leu Gln Pro Phe Thr Pro Leu Leu Val Arg Phe
 50 55 60
 Gly Gly Arg Gly Glu Val Lys Thr Leu Arg Ser Ala Glu Ala Val Ser
 65 70 75 80
 Leu Ala Leu Pro Leu Ser Gly Ile Thr Leu Tyr Ser Gly Leu Tyr Val
 85 90 95
 Asn Glu Leu Ile Ser Arg Val Leu Glu His Glu Thr Arg Phe Ser Glu
 100 105 110
 Leu Phe Phe Asp Tyr Leu His Cys Ile Gln Ser Leu Ala Gly Ala Thr
 115 120 125
 Gly Thr Pro Glu Pro Val Leu Arg Arg Phe Glu Leu Ala Leu Leu Gly
 130 135 140
 His Leu Gly Tyr Gly Val Asp Phe Leu His Cys Ala Gly Ser Gly Asp
 145 150 155 160
 Glu Val Glu Asp Thr Met Thr Tyr Arg Tyr Arg Glu Glu Lys Gly Phe
 165 170 175

Ile Ala Ser Val Val Val Asp Asn Ser Thr Phe Thr Gly Arg Gln Leu
 180 185 190
 Arg Ala Leu Tyr Glu Arg Glu Phe Pro Asp Ala Asp Thr Leu Arg Ala
 195 200 205
 Ala Lys Arg Phe Thr Arg Ile Ala Leu Lys Pro Tyr Leu Gly Gly Lys
 210 215 220
 Pro Leu Lys Ser Arg Glu Leu Phe Arg Gln Phe Met Pro Lys Arg
 225 230 235 240

<210> 6450

<211> 251

<212> PRT

<213> Enterobacter cloacae

<400> 6450

Thr Lys Ile Pro Arg Ile Val Met Ala Glu Leu Leu Leu Gly Val Asn
 1 5 10 15
 Ile Asp His Ile Ala Thr Leu Arg Asn Ala Arg Gly Thr Ala Tyr Pro
 20 25 30
 Asp Pro Val Gln Ala Ala Phe Ile Ala Glu Gln Ala Gly Ala Asp Gly
 35 40 45
 Ile Thr Val His Leu Arg Glu Asp Arg Arg His Ile Thr Asp Arg Asp
 50 55 60
 Val Arg Ile Leu Arg Gln Thr Leu Asp Asn Arg Met Asn Leu Glu Met
 65 70 75 80
 Ala Val Thr Glu Glu Met Leu Thr Ile Ala Cys Asp Thr Lys Pro His
 85 90 95
 Phe Cys Cys Leu Val Pro Glu Lys Arg Gln Glu Val Thr Thr Glu Gly
 100 105 110
 Gly Leu Asp Val Ala Gly Gln Leu Asp Lys Met Arg Asp Ala Cys Lys
 115 120 125
 Arg Leu Ala Asp Ala Gly Ile Leu Val Ser Leu Phe Ile Asp Ala Asp
 130 135 140
 Phe Thr Gln Ile Lys Ala Ala Ala Asp Val Gly Ala Pro Tyr Ile Glu
 145 150 155 160
 Ile His Thr Gly Cys Tyr Ala Asp Ala Glu Asn Asp Ala Ala Gln Ala
 165 170 175
 Lys Glu Leu Glu Arg Ile Ala Lys Ala Ala Thr Tyr Ala Ala Ser Leu
 180 185 190
 Gly Leu Lys Val Asn Ala Gly His Gly Leu Thr Tyr His Asn Val Lys
 195 200 205
 Ala Ile Ala Ala Leu Pro Glu Met His Glu Leu Asn Ile Gly His Ala
 210 215 220
 Ile Ile Gly Arg Ala Val Met Ser Gly Leu Lys Asp Ala Val Ser Glu
 225 230 235 240
 Met Lys Arg Leu Met Leu Glu Ala Arg Gln
 245 250

<210> 6451

<211> 145

<212> PRT

<213> Enterobacter cloacae

<400> 6451

Arg Arg Leu Asn Val Asp Thr Ile Ala Gly Ile Val Arg Lys His Leu
 1 5 10 15
 Pro Glu Ala Thr His His Phe Pro Glu Asp Tyr Ile Thr Asp Arg Ser
 20 25 30
 Gln Arg Phe Met Ala Ser Glu Ile Ile Arg Glu Lys Leu Met Arg Phe
 35 40 45
 Leu Gly Ala Glu Leu Pro Tyr Ser Val Thr Val Glu Ile Glu Arg Phe

50 55 60
 Gln Ser Asn Glu Arg Gly Gly Tyr Asp Ile Asn Gly Leu Ile Leu Val
 65 70 75 80
 Glu Arg Glu Gly Gln Lys Lys Met Val Ile Gly Asn Lys Gly Ala Lys
 85 90 95
 Ile Lys Thr Ile Gly Ile Glu Ala Arg Lys Asp Met Gln Asp Met Phe
 100 105 110
 Glu Ala Pro Val His Leu Glu Leu Trp Val Lys Val Lys Ser Gly Trp
 115 120 125
 Ala Asp Asp Glu Arg Ala Leu Arg Ser Leu Gly Tyr Gly Glu Asp Gln
 130 135 140

145

<210> 6452

<211> 312

<212> PRT

<213> Enterobacter cloacae

<400> 6452

Cys Val Tyr Tyr Glu Leu Lys Ile Pro Glu Val Asn Asn Met Asn Leu
 1 5 10 15
 Gly Ser Leu Val Ser Glu Thr Arg Asn Pro Gln Thr Met Asp Leu Asp
 20 25 30
 Ala Leu Ser Thr Leu Glu Leu Val Asn Arg Phe Asn Gln Gln Asp Thr
 35 40 45
 Leu Val Ala Leu Ala Val Lys Glu Thr Leu Pro Glu Val Ala Lys Ala
 50 55 60
 Val Asp Ala Ala Ala Asp Ala Leu Lys Ala Gly Gly Arg Ile Ile Tyr
 65 70 75 80
 Met Gly Ala Gly Thr Ser Gly Arg Leu Gly Val Leu Asp Ala Ser Glu
 85 90 95
 Cys Pro Pro Thr Phe Gly Val Pro His Gly Leu Val Val Gly Leu Ile
 100 105 110
 Ala Gly Gly Pro Gly Ala Leu Leu Lys Ala Val Glu Gly Ala Glu Asp
 115 120 125
 Asn Lys Gln Leu Gly Glu Asp Leu Arg Ala Leu Asn Leu Thr Ala
 130 135 140
 Gln Asp Leu Val Val Gly Leu Ala Ala Ser Gly Arg Thr Pro Tyr Val
 145 150 155 160
 Ile Gly Gly Leu Glu Tyr Ala Arg Gln Thr Gly Cys Thr Thr Val Ala
 165 170 175
 Ile Ser Cys Asn Pro Gly Ser Pro Ile Ala Gln Val Ala Ala Ile Ala
 180 185 190
 Ile Ser Pro Val Val Gly Pro Glu Ala Leu Thr Gly Ser Thr Arg Leu
 195 200 205
 Lys Ser Gly Thr Ala Gln Lys Leu Val Leu Asn Met Ile Ser Thr Gly
 210 215 220
 Ala Met Val Lys Phe Gly Lys Val Tyr Gln Asn Leu Met Val Asp Met
 225 230 235 240
 Gln Ala Thr Asn Val Lys Leu Val Asp Arg Ala Cys Arg Met Val Met
 245 250 255
 Glu Ala Thr Gly Ala Ser Arg Glu Glu Ala Glu Lys Val Leu Gln Gln
 260 265 270
 Thr Asp His Asp Val Lys Pro Ala Ile Leu Met Ile Leu Thr Gly Leu
 275 280 285
 Asp Ala Ala Ala Ala Arg Ala Arg Leu Glu Ala His His Gly Phe Leu
 290 295 300
 Arg Ala Ala Leu Glu His Gln
 305 310

<210> 6453
 <211> 458
 <212> PRT
 <213> Enterobacter cloacae

<400> 6453

Glu	Ala	Phe	Met	Asp	Lys	Thr	Ala	Ala	Leu	Ala	Ser	Asp	Ile	Leu	Leu
1			5						10					15	
Gly	Ile	Gly	Gly	Glu	Lys	Asn	Ile	Gln	Arg	Leu	Glu	Asn	Cys	Met	Thr
		20						25					30		
Arg	Val	Arg	Val	Glu	Val	Tyr	Asn	Asp	Glu	Lys	Leu	Asp	Leu	Thr	Arg
		35					40					45			
Leu	Lys	Gln	Leu	Pro	Gly	Val	Ser	Gly	Tyr	Val	Lys	Gln	Gly	Gln	Gln
	50					55					60				
His	Gln	Leu	Ile	Val	Gly	Pro	Gly	Lys	Ala	Ala	Gln	Val	Val	Asp	Ala
65					70					75					80
Met	Arg	Ala	Leu	Met	Thr	Gly	Gly	Glu	Thr	Ala	Pro	Ala	Phe	Asp	Asp
			85					90						95	
Ala	Glu	Arg	Thr	Lys	Ala	Gln	Ala	Lys	Ala	Lys	Tyr	Lys	Ala	Pro	Met
			100					105					110		
Ser	Asp	Ala	Leu	Arg	Gln	Leu	Ala	Asn	Val	Phe	Ile	Pro	Leu	Ile	Pro
		115					120					125			
Ala	Phe	Ile	Ala	Ser	Gly	Leu	Ile	Thr	Gly	Ile	Ile	Asn	Ile	Leu	Lys
	130					135						140			
Arg	Pro	Asp	Ile	Val	Gly	Asn	Phe	Ala	Thr	Gln	Tyr	Pro	Asn	Leu	Leu
145					150					155					160
Gly	Ile	Leu	Ala	Ile	Phe	Gly	Ser	Ala	Val	Phe	Ala	Ile	Met	Asn	Ile
				165					170					175	
Leu	Val	Gly	Val	Asn	Thr	Ala	Lys	Val	Phe	Gly	Gly	Ser	Leu	Ala	Met
			180					185					190		
Gly	Gly	Val	Met	Ala	Gly	Ile	Leu	Ser	Ser	Pro	Gln	Leu	Ala	Gln	Ile
		195					200					205			
Thr	Leu	Phe	Gly	Glu	Ala	Leu	Gln	Pro	Gly	Arg	Gly	Gly	Val	Ile	Ala
			210				215					220			
Val	Leu	Leu	Val	Val	Ile	Leu	Met	Cys	Trp	Ile	Glu	Lys	Lys	Leu	Arg
225					230					235					240
Glu	Leu	Leu	Pro	Gly	Ser	Ile	Glu	Leu	Ile	Leu	Asn	Pro	Leu	Leu	Thr
			245						250					255	
Thr	Leu	Ile	Thr	Gly	Ser	Val	Ala	Ile	Val	Ala	Leu	Gln	Pro	Leu	Gly
			260					265					270		
Gly	Ala	Ile	Ser	Glu	Ala	Ile	Ala	His	Gly	Ala	Ser	Leu	Ala	Ile	Asp
		275					280					285			
Arg	Gly	Gly	Leu	Leu	Val	Gly	Ala	Val	Leu	Ser	Gly	Thr	Phe	Leu	Pro
	290					295					300				
Leu	Val	Leu	Thr	Gly	Leu	His	Gln	Gly	Leu	Val	Pro	Ile	His	Val	Glu
305					310					315					320
Leu	Val	Gln	Ala	His	Gly	Tyr	Asn	Ala	Leu	Leu	Pro	Ile	Leu	Ser	Met
			325						330					335	
Ala	Gly	Val	Gly	Gln	Val	Gly	Ala	Ala	Ile	Ala	Val	Leu	Met	Lys	Thr
		340						345					350		
Arg	Asn	Ala	Arg	Leu	Lys	Lys	Val	Ile	Lys	Gly	Ala	Leu	Pro	Val	Gly
		355					360					365			
Leu	Leu	Gly	Ile	Gly	Glu	Pro	Leu	Ile	Phe	Gly	Val	Thr	Leu	Pro	Leu
	370					375					380				
Gly	Lys	Pro	Phe	Leu	Ala	Cys	Leu	Gly	Gly	Ala	Val	Gly	Gly	Ala	
385					390				395						400
Leu	Ile	Ser	Tyr	Trp	Lys	Val	Ala	Thr	Val	Ile	Thr	Phe	Gly	Ile	Ser
			405						410					415	
Gly	Leu	Pro	Leu	Ala	Leu	Thr	Ile	Val	Thr	Gly	Lys	Val	Met	Leu	Tyr
			420					425					430		
Leu	Leu	Gly	Tyr	Leu	Val	Ala	Val	Ile	Ala	Gly	Phe	Leu	Phe	Thr	Trp

435 440 445
 Leu Leu Gly Phe Asn Asp Pro Glu Glu
 450 455

<210> 6454
 <211> 213
 <212> PRT
 <213> Enterobacter cloacae

<400> 6454

Gly Leu Ala Ser His Glu Arg Arg Val Val Phe Phe Asp Leu Asp Gly
 1 5 10 15
 Thr Leu His Gln Gln Asp Met Phe Gly Thr Phe Met Arg Tyr Leu Leu
 20 25 30
 Arg Arg Gln Pro Leu Asn Ala Leu Leu Val Leu Pro Leu Leu Pro Val
 35 40 45
 Ile Gly Ile Ala Leu Leu Val Lys Gly Arg Ala Ala Arg Trp Pro Met
 50 55 60
 Ser Leu Leu Leu Trp Gly Cys Thr Phe Gly His Ser Glu Ala Arg Leu
 65 70 75 80
 Lys Gln Leu Glu Gln Asp Phe Ala His Trp Phe Arg Gly His Val Ala
 85 90 95
 Ala Phe Pro Val Val Gln Ala Arg Leu Thr Ser Tyr Leu Asp Ala Asn
 100 105 110
 Asp Ala Asp Ile Trp Leu Ile Thr Gly Ser Pro Gln Thr Leu Val Glu
 115 120 125
 Gln Val Tyr Phe Asp Thr Pro Trp Leu Pro Arg Val Asn Leu Ile Ala
 130 135 140
 Thr Gln Ile Ala Arg Gly Tyr Gly Gly Trp Val Leu Thr Leu Arg Cys
 145 150 155 160
 Leu Gly His Glu Lys Val Val Gln Leu Glu Lys Arg Ile Gly Thr Pro
 165 170 175
 Leu Arg Leu Tyr Ser Gly Tyr Ser Asp Ser Lys Gln Asp Asn Pro Leu
 180 185 190
 Leu Tyr Phe Cys Gln His Arg Trp Arg Val Thr Pro Leu Gly Glu Leu
 195 200 205
 Gln Gln Leu Glu
 210

<210> 6455
 <211> 188
 <212> PRT
 <213> Enterobacter cloacae

<400> 6455

Ser Tyr Leu Tyr Arg Leu Cys Ile Met Pro Pro Ala Phe Arg Leu Glu
 1 5 10 15
 Tyr Gln Pro Leu Ser Asn Pro Glu His Asn His Glu Tyr Trp Met Arg
 20 25 30
 His Ala Leu Ala Leu Ala Gln Arg Ala Trp Glu Glu Gly Glu Val Pro
 35 40 45
 Val Gly Ala Val Leu Val His Asn Asn Gln Val Ile Gly Glu Gly Trp
 50 55 60
 Asn Arg Pro Ile Gly Arg His Asp Pro Thr Ala His Ala Glu Ile Met
 65 70 75 80
 Ala Leu Arg Gln Gly Gly Leu Val Leu Gln Asn Tyr Arg Leu Leu Asp
 85 90 95
 Thr Thr Leu Tyr Val Thr Leu Glu Pro Cys Val Met Cys Ser Gly Ala
 100 105 110
 Met Val His Ser Arg Ile Gly Thr Leu Val Phe Gly Ala Arg Asp Glu
 115 120 125

Lys Thr Gly Ala Ala Gly Ser Leu Met Asp Val Leu Gly His Pro Gly
 130 135 140
 Met Asn His Gln Val Lys Thr Ile Gly Gly Val Leu Ala Pro Glu Cys
 145 150 155 160
 Ser Gly Leu Leu Ser Asp Phe Phe Arg Met Arg Arg Gln Gln Lys Lys
 165 170 175
 Gln Gln Lys Ala Glu Leu Lys Pro Gln Gly Asp
 180 185

<210> 6456

<211> 181

<212> PRT

<213> Enterobacter cloacae

<400> 6456

Arg Arg Ser Arg Pro Asp Leu Ser Gln Arg Lys Ser His Arg Cys Pro
 1 5 10 15
 Ala Gly Asn Ala Arg Ala Glu His Arg Pro Arg Tyr His Trp Pro Cys
 20 25 30
 Gly Asp Glu Arg Ser Glu Arg Arg Gly Phe Arg Asp Glu Ala Ser Asp
 35 40 45
 Ala Gly Ser Ala Ser Val Met Ala Ile Leu Gly Leu Gly Thr Asp Ile
 50 55 60
 Val Glu Thr Ala Arg Ile Glu Ala Val Ile Ala Arg Ser Gly Asp Arg
 65 70 75 80
 Leu Ala Arg Arg Val Leu Ser Asp Asn Glu Trp Ala Ile Trp Glu Ala
 85 90 95
 His Gln Gln Pro Val Arg Phe Leu Ala Lys Arg Phe Ala Val Lys Glu
 100 105 110
 Ala Ala Ala Lys Ala Phe Gly Thr Gly Ile Arg Asn Gly Leu Ala Phe
 115 120 125
 Asn Gln Phe Glu Val Phe Asn Asp Glu Leu Gly Lys Pro Arg Leu Arg
 130 135 140
 Leu Trp Gly Glu Ala Leu Lys Leu Ala Glu Lys Leu Gly Val Ala His
 145 150 155 160
 Met His Val Thr Leu Ala Asp Glu Arg His Tyr Ala Cys Ala Thr Val
 165 170 175
 Ile Ile Glu Gly
 180

<210> 6457

<211> 96

<212> PRT

<213> Enterobacter cloacae

<400> 6457

Cys Arg Pro Val Ser Thr Asn Gly Arg Lys Val Pro Asp Ser Thr Ala
 1 5 10 15
 Pro Thr Ser Ser Pro Pro Arg Ser Ile Ala Arg Asp Ala Pro Trp Ala
 20 25 30
 Met Ala Ser Glu Ile Ala Pro Pro Asn Gly Cys Ser Ala Thr Ile Ala
 35 40 45
 Thr Leu Pro Val Ile Asn Val Val Ser Ser Gly Leu Arg Ile Ser Ser
 50 55 60
 Ile Glu Pro Gly Ser Asn Ser Arg Ser Phe Phe Ser Ile Gln His Ile
 65 70 75 80
 Arg Met Thr Thr Ser Ser Thr Ala Ile Thr Pro Pro Arg Pro Gly
 85 90 95

<210> 6458

<211> 297

<212> PRT

<213> Enterobacter cloacae

<400> 6458

Phe Val Phe Ala Arg Val Ile Thr Phe Ser Pro Gly Asp Arg Met Asn
 1 5 10 15
 Cys Leu Ile Arg Ile Arg Gln Arg Tyr Ala Gly Phe Ala Gln Ser Asp
 20 25 30
 Lys Lys Leu Ala Asp Tyr Leu Leu Ser Gln Pro Asp Arg Ala Arg His
 35 40 45
 Leu Ser Ser Gln Gln Leu Ala Gly Glu Ala Gly Val Ser Gln Ser Ser
 50 55 60
 Val Val Lys Phe Ala Gln Lys Ile Gly Tyr Lys Gly Phe Pro Ala Leu
 65 70 75 80
 Lys Leu Ala Ile Ser Glu Ala Leu Val Ser Asn Pro Asn Pro Gln Ser
 85 90 95
 Met Pro Val His Asn Gln Ile Arg Gly Asp Asp Pro Met Arg Leu Val
 100 105 110
 Gly Glu Lys Leu Ile Lys Glu Asn Val Ala Ala Met His Ala Thr Leu
 115 120 125
 Asp Val Asn Thr Glu Glu Lys Leu Leu Glu Ser Val Ala Met Leu Arg
 130 135 140
 Asp Ala Arg Arg Ile Val Leu Thr Gly Ile Gly Ala Ser Gly Leu Val
 145 150 155 160
 Ala Arg Asn Phe Gly Trp Lys Leu Thr Lys Ile Gly Tyr Asn Ala Ile
 165 170 175
 Val Glu Gln Asp Met His Ala Leu Leu Ala Thr Val Gln Ala Met Asp
 180 185 190
 Pro Asp Asp Leu Leu Leu Ala Ile Ser Tyr Ser Gly Glu Arg Arg Glu
 195 200 205
 Ile Asn Met Ala Thr Asp Glu Ala Leu Arg Val Gly Gly Lys Ile Leu
 210 215 220
 Ala Ile Thr Gly Phe Ser Pro Asn Ala Leu Gln Gln Arg Ala Thr Arg
 225 230 235 240
 Cys Leu Tyr Thr Ile Ala Glu Glu Gln Ala Thr Arg Ser Ala Ala Ile
 245 250 255
 Ser Ser Thr Ser Ala Gln Met Met Leu Thr Asp Leu Leu Phe Met Ala
 260 265 270
 Leu Val Gln Gln Asp Leu Glu Arg Ala Pro Glu Arg Ile Arg His Ser
 275 280 285
 Glu Glu Leu Val Lys Lys Leu Val
 290 295

<210> 6459

<211> 273

<212> PRT

<213> Enterobacter cloacae

<400> 6459

Ala Thr Val Arg Glu Lys Ile Glu Ser Leu Lys Lys Asp Pro Val Arg
 1 5 10 15
 Leu Glu Glu Lys Tyr Leu Gly His Gly Asp Asp Phe Asp Tyr Val Asp
 20 25 30
 Thr Arg Thr Phe Leu Arg Ala Val Asp Ser Val Leu Pro Asp Leu Gln
 35 40 45
 Pro Leu Phe Glu Lys Tyr Ala Gln Glu Ile Asp Trp Lys Leu Leu Ala
 50 55 60
 Ala Ile Ser Tyr Gln Glu Ser His Trp Asp Ala Gln Ala Thr Ser Pro
 65 70 75 80
 Thr Gly Val Arg Gly Leu Met Met Leu Thr Lys Asn Thr Ala Gln Ser
 85 90 95

Leu Gly Ile Ser Asp Arg Thr Asp Ala Glu Gln Ser Ile Ser Gly Gly
 100 105 110
 Ala Gln Tyr Leu Gln Asp Met Met Ala Lys Val Pro Glu Thr Val Pro
 115 120 125
 Glu Gly Glu Arg Ile Trp Phe Ala Leu Ala Ala Tyr Asn Met Gly Tyr
 130 135 140
 Ala His Met Leu Asp Ala Arg Ala Leu Thr Ala Lys Thr Lys Gly Asn
 145 150 155 160
 Pro Asp Ser Trp Ser Asp Val Lys Gln Arg Leu Pro Leu Leu Ser Gln
 165 170 175
 Lys Gln Trp Tyr Gln Lys Leu Thr Tyr Gly Tyr Ala Arg Gly His Glu
 180 185 190
 Ala Tyr Ala Tyr Val Glu Asn Ile Arg Lys Tyr Gln Ile Ser Leu Val
 195 200 205
 Gly Tyr Leu Leu Glu Lys Glu Lys Glu Ala Ala Glu Ala Gln Gln Leu
 210 215 220
 Ala Glu Ser Tyr Pro Val Val Ala Pro Glu Glu Leu Asn His Pro Ala
 225 230 235 240
 Val Ser Ile Leu Pro Phe Val Ala Phe Ser Ala Ala Asp Ala Phe Glu
 245 250 255
 Lys Ser His Leu Thr Asp Pro Asn Ile Leu Val Gln Val Pro Arg Arg
 260 265 270

<210> 6460
 <211> 102
 <212> PRT
 <213> Enterobacter cloacae

<400> 6460
 Ala Tyr Asn Ala Arg Pro Val Cys Asp Val Ser Glu Asn Phe Leu Met
 1 5 10 15
 Ala Leu Leu Ile Thr Lys Lys Cys Ile Asn Cys Asp Met Cys Glu Pro
 20 25 30
 Glu Cys Pro Asn Glu Ala Ile Ser Met Gly Asp Ser Ile Tyr Glu Ile
 35 40 45
 Asn Ser Asp Arg Cys Thr Glu Cys Ile Gly His Tyr Glu Thr Pro Thr
 50 55 60
 Cys Gln Lys Val Cys Pro Ile Pro Asn Thr Ile Leu Lys Asp Pro Ala
 65 70 75 80
 His Val Glu Asn Glu Glu Gln Leu Trp Asp Lys Phe Val Leu Met His
 85 90 95
 His Ala Asp Lys Ile
 100

<210> 6461
 <211> 516
 <212> PRT
 <213> Enterobacter cloacae

<400> 6461
 Gln Asn Ala Asp Phe Phe Gly Thr Asn Leu Ala Asn Phe Leu Pro Asp
 1 5 10 15
 Gly Ala Phe Cys Ser Asp Cys Ser Pro Gln Ser Phe Thr Ile Glu Thr
 20 25 30
 Ser Thr Phe Asn Arg Met Arg Leu Leu Val Ser Asp Ser Ala Ala Arg
 35 40 45
 Pro Thr Phe Leu Phe His Asp Tyr Glu Thr Phe Gly Thr His Pro Ala
 50 55 60
 Leu Asp Arg Pro Ala Gln Phe Ala Ala Ile Arg Thr Asp Asp Glu Phe

65					70					75				80	
Asn	Val	Ile	Gly	Glu	Pro	Glu	Val	Phe	Tyr	Cys	Lys	Pro	Ala	Asp	Asp
				85					90					95	
Tyr	Leu	Pro	Gln	Pro	Gly	Ala	Val	Met	Val	Thr	Gly	Ile	Thr	Pro	Gln
			100					105					110		
Glu	Ala	Arg	Asp	Lys	Gly	Val	Ser	Glu	Ala	Glu	Phe	Ala	Arg	Arg	Ile
		115					120					125			
His	Asp	Leu	Phe	Thr	Val	Pro	Asn	Thr	Cys	Val	Val	Gly	Tyr	Asn	Asn
	130					135					140				
Ile	Arg	Phe	Asp	Asp	Glu	Val	Thr	Arg	Asn	Ile	Phe	Tyr	Arg	Asn	Phe
145					150					155					160
Tyr	Asp	Pro	Tyr	Ala	Trp	Ser	Trp	Gln	Asn	Arg	Asn	Ser	Arg	Trp	Asp
			165						170					175	
Leu	Leu	Asp	Ile	Met	Arg	Ala	Cys	Tyr	Ala	Leu	Arg	Pro	Glu	Gly	Ile
		180						185					190		
Asn	Trp	Arg	Glu	Asn	Asp	Asp	Gly	Leu	Pro	Ser	Phe	Arg	Leu	Glu	His
	195						200					205			
Leu	Thr	Arg	Ala	Asn	Gly	Ile	Glu	His	Ser	Asn	Ala	His	Asp	Ala	Met
210					215						220				
Ala	Asp	Val	Tyr	Ala	Thr	Ile	Ala	Met	Ala	Lys	Leu	Val	Lys	Thr	Ala
225					230					235					240
Gln	Pro	Arg	Leu	Phe	Glu	Tyr	Leu	Leu	Ser	His	Arg	Ser	Lys	Gln	Lys
			245					250						255	
Leu	Met	Thr	Leu	Ile	Asp	Val	Pro	Gln	Met	Lys	Pro	Leu	Val	His	Ile
		260						265					270		
Ser	Gly	Met	Phe	Gly	Ala	Trp	Arg	Gly	Asn	Thr	Ser	Trp	Val	Ala	Pro
	275						280					285			
Leu	Ala	Trp	His	Pro	Asp	Asn	Arg	Asn	Ala	Val	Ile	Met	Val	Asp	Leu
290						295					300				
Ala	Gly	Asp	Ile	Ser	Pro	Leu	Leu	Glu	Leu	Asp	Ser	Asp	Thr	Leu	Arg
305					310					315					320
Glu	Arg	Leu	Tyr	Thr	Pro	Lys	Glu	Ala	Leu	Gly	Asp	Leu	Pro	Ala	Val
			325					330						335	
Pro	Val	Lys	Leu	Val	His	Ile	Asn	Lys	Cys	Pro	Val	Leu	Ala	Gln	Ala
			340					345					350		
Asn	Thr	Leu	Arg	Pro	Glu	Asp	Ala	Asp	Arg	Leu	Gly	Ile	Asn	Arg	Gln
	355						360					365			
His	Cys	Leu	Asp	Asn	Leu	Lys	Val	Leu	Arg	Asp	Asn	Pro	Gln	Val	Arg
370						375					380				
Glu	Lys	Val	Val	Ala	Ile	Phe	Ala	Glu	Ala	Glu	Pro	Phe	Val	Pro	Ser
385					390					395					400
Glu	Asn	Val	Asp	Ala	Gln	Leu	Tyr	Asn	Gly	Phe	Phe	Ser	Asp	Ala	Asp
			405						410					415	
Arg	Ala	Ala	Met	Asn	Ile	Val	Leu	Gln	Thr	Asp	Pro	Arg	Asn	Leu	Pro
			420					425					430		
Ala	Leu	Asp	Ile	Thr	Phe	Ala	Asp	Lys	Arg	Ile	Glu	Lys	Leu	Met	Phe
	435						440					445			
Asn	Tyr	Arg	Ala	Arg	Asn	Tyr	Pro	Gly	Thr	Leu	Asp	Glu	Ala	Glu	Gln
	450					455					460				
Glu	Arg	Trp	Leu	Gln	His	Arg	Arg	Ser	Val	Phe	Thr	Pro	Glu	Phe	Leu
465					470					475					480
Asn	Ser	Tyr	Ala	Gln	Glu	Leu	Glu	Met	Leu	Tyr	Gly	Gln	Tyr	Glu	Gly
			485						490					495	
Asn	Ala	Glu	Lys	Gln	Ala	Leu	Leu	Lys	Ala	Leu	Phe	Gln	Tyr	Ala	Gln
		500						505					510		
Glu	Ile	Val													
	515														

<210> 6462

<211> 389

<212> PRT

<213> Enterobacter cloacae

<400> 6462

Ser Thr Lys Trp Asp Asn Pro Ala Lys Arg Arg Val Phe Gln Pro Gly
 1 5 10 15
 Ala Ile His Pro Ala Glu Asn Thr Val Gln Leu Trp Phe Ala Val Glu
 20 25 30
 Leu Glu Thr Gly Val Arg Pro Asp Lys Ser Leu Thr Pro Phe Glu Ile
 35 40 45
 Arg Leu Tyr Lys His Tyr Arg Val Val His Gly Cys Arg Ile Ala Leu
 50 55 60
 Ala Phe Val Leu Thr Phe Val Leu Val Arg Leu Leu Asp Ile Pro Glu
 65 70 75 80
 Gly Thr Trp Pro Leu Ile Thr Leu Val Val Val Met Gly Pro Ile Ser
 85 90 95
 Phe Trp Gly Asn Val Val Pro Arg Ala Phe Glu Arg Ile Gly Gly Thr
 100 105 110
 Val Leu Gly Ser Ala Leu Gly Leu Ile Ala Leu Lys Leu Glu Leu Ile
 115 120 125
 Ser Phe Pro Phe Met Leu Leu Trp Cys Ala Val Ala Met Phe Leu Cys
 130 135 140
 Gly Trp Leu Thr Leu Gly Lys Lys Pro Tyr Gln Ala Leu Leu Ile Gly
 145 150 155 160
 Ile Thr Leu Ala Val Val Val Gly Ala Pro Ala Gly Asp Met Thr Thr
 165 170 175
 Ala Leu Trp Arg Ser Gly Asp Val Ile Leu Gly Ser Leu Leu Ala Met
 180 185 190
 Leu Phe Thr Gly Ile Trp Pro Gln Arg Ala Phe Leu His Trp Arg Ile
 195 200 205
 Gln Met Ala Asn Tyr Val Thr Ala Phe Asn Arg Val Tyr Gln Ala Gly
 210 215 220
 Phe Ser Pro Asn Leu Ile Glu Arg Pro Arg Leu Glu Lys His Leu Gln
 225 230 235 240
 Lys Ile Leu Asn Asp Val Val Lys Met Arg Gly Leu Ile Thr Pro Ala
 245 250 255
 Ser Lys Glu Thr His Ile Gln Lys Ala Ile Phe Glu Ala Ile Gln Thr
 260 265 270
 Val Ser Arg Asn Leu Val Cys Met Leu Glu Leu Gln Ile Asn Ala His
 275 280 285
 Trp Ala Ser Arg Pro Ser His Leu Leu Met Leu Asn Ala His Thr Leu
 290 295 300
 Lys Glu Thr Gln Gln Met Thr Gln Gln Thr Leu Leu Thr Ile Ala His
 305 310 315 320
 Ala Leu Tyr Glu Gly Asn Pro Gln Pro Ile Arg Ala Asn Ser Glu Arg
 325 330 335
 Leu Asn Glu Ile Val Ala Glu Leu Lys Gln Leu Met Asn Glu Arg Gln
 340 345 350
 Gly Asp Asn Val Ala Glu Thr Pro Ile His Gly Tyr Val Trp Leu Ser
 355 360 365
 Met Glu Leu Ala Arg Gln Leu Glu Leu Leu Ser Gln Leu Ile Cys Arg
 370 375 380
 Ala Leu Arg Lys
 385

<210> 6463

<211> 128

<212> PRT

<213> Enterobacter cloacae

<400> 6463

Asn Gly Cys Phe Asn Glu Ser Glu Ser His Ile Ile Arg Gly Val Lys

```

1           5           10           15
Met Glu Thr Thr Lys Pro Ser Phe Gln Asp Val Leu Glu Phe Val Arg
      20           25           30
Leu Phe Arg Arg Lys Asn Lys Leu Gln Arg Glu Ile Gln Asp Val Glu
      35           40           45
Lys Lys Ile Arg Asp Asn Gln Lys Arg Val Leu Leu Leu Asp Asn Leu
      50           55           60
Ser Asp Tyr Ile Lys Pro Gly Met Ser Val Glu Ala Ile Gln Gly Ile
      65           70           75           80
Ile Ala Ser Met Lys Ser Asp Tyr Glu Asp Arg Val Asp Asp Tyr Ile
      85           90           95
Ile Lys Asn Ala Glu Leu Ser Lys Glu Arg Arg Asp Ile Ser Lys Lys
      100          105          110
Leu Lys Val Met Gly Glu Ile Lys Asn Val Asp Ala Lys Gly Glu
      115          120          125

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<210> 6464

<211> 310

<212> PRT

<213> Enterobacter cloacae

<400> 6464

```

Asn Arg Leu Leu Asp Val Leu Ile Ile Pro Gly Gly Ala Gly Lys Arg
1           5           10           15
Arg Gly Ala Cys Pro Pro His Arg Ala Lys Leu Tyr Lys Thr Arg Ser
      20           25           30
Val Met Ser Tyr Thr Val Gln Lys Leu Glu Ser Asp Val Asn Ile Gln
      35           40           45
Ile Val Asp Arg Thr Gly His Arg Ala Arg Phe Thr Arg Thr Gly Gln
      50           55           60
Met Leu Leu Glu Lys Gly Arg Asp Val Leu His Thr Val Arg Glu Leu
      65           70           75           80
Asp Lys Gln Ala Val Lys Phe His Gln Val Trp Glu Asn Glu Leu Val
      85           90           95
Ile Gly Val Asp Asp Thr Phe Pro Leu Ser Val Leu Thr Pro Leu Ile
      100          105          110
Glu Ala Phe Tyr Gln Arg His Ser Val Thr Arg Leu Val Phe Ile Asn
      115          120          125
Gly Val Leu Gly Gly Phe Trp Glu Ala Leu Thr Gln Gly Arg Ala Asp
      130          135          140
Ile Ile Val Gly Ala Val His Glu Pro Pro Gln Leu Ser Glu Phe Gly
      145          150          155          160
Phe Ala Arg Leu Gly Val Leu Glu Gln Val Phe Ala Val Ala Pro His
      165          170          175
His Pro Leu Ala Asn Glu Pro Glu Pro Val Thr Arg Arg Val Ile Lys
      180          185          190
Asn Tyr Arg Ala Ile Val Val Gly Asp Ser Ser Arg Pro Glu Cys Gly
      195          200          205
Ile Ser Ser Gln Met Leu Asp Glu Gln Glu Ala Ile Thr Val Phe Asp
      210          215          220
Phe Lys Thr Lys Leu Glu Leu Gln Ile Ser Gly Leu Gly Cys Gly Tyr
      225          230          235          240
Leu Pro Arg Tyr Leu Ala Gln Arg Phe Ile Asp Ser Gly Ala Leu Val
      245          250          255
Glu Lys Gln Val Leu Ala Gln Ser Ser Asn Glu Ser Val Trp Val Gly
      260          265          270
Trp Asn Glu Gln Thr Ala Gly Leu Ala Ser Ala Trp Trp Arg Asp Glu
      275          280          285
Ile Leu Ala Asn Ser Ala Ile Ala Thr Val Tyr Thr Gln Ala Asp Asp
      290          295          300
Gly Lys Ser Thr Ser

```


305

310

<210> 6465

<211> 394

<212> PRT

<213> *Enterobacter cloacae*

<400> 6465

```

Pro Glu Asp Ile Pro Leu Lys Arg Arg Leu Phe Ile Ala Val Ser Leu
1      5      10      15
Leu Ala Ser Ser Ile Ser Ser Ala Leu Ala Ala Glu Pro Leu Asp Phe
      20      25      30
Ser Pro Gln Pro Pro Ala Ile Gln Ala Gly Ser Trp Val Leu Met Asp
      35      40      45
Tyr Thr Thr Gly Gln Ile Leu Thr Ala Gly Asn Glu His Gln Gln Arg
      50      55      60
Asn Pro Ala Ser Leu Thr Lys Leu Met Thr Gly Tyr Val Val Asp Arg
65      70      75      80
Ala Ile Asp Ser His Arg Ile Ser Pro Asp Asp Ile Val Thr Val Gly
      85      90      95
Arg Asp Ala Trp Ala Lys Gly Asn Ser Val Phe Asp Gly Ser Ser Leu
      100     105     110
Met Phe Leu Lys Glu Gly Asp Arg Val Ser Val Arg Asp Leu Ser Arg
      115     120     125
Gly Leu Ile Val Asp Ser Gly Asn Asp Ala Cys Val Ala Leu Ala Asp
      130     135     140
His Val Ala Gly Gly Gln Pro Gln Phe Val Arg Met Met Asn Asp Tyr
145     150     155     160
Val Glu Lys Leu Asn Leu Arg Asp Thr His Phe Glu Thr Val His Gly
      165     170     175
Leu Asp Ala Pro Gly Gln His Ser Ser Ala Tyr Asp Leu Ala Val Leu
      180     185     190
Ser Arg Ala Ile Ile His Gly Glu Pro Glu Phe Tyr His Met Tyr Ser
      195     200     205
Glu Lys Ser Leu Thr Trp Asn Gly Ile Thr Gln Gln Asn Arg Asn Gly
210     215     220
Leu Leu Trp Asp Lys Thr Met Asn Val Asp Gly Leu Lys Thr Gly His
225     230     235     240
Thr Ser Gly Ala Gly Phe Asn Leu Ile Ala Ser Ala Val Asp Gly Gln
      245     250     255
Arg Arg Leu Ile Ala Val Val Met Gly Ala Asp Thr Pro Lys Gly Arg
      260     265     270
Glu Asp Gln Ala Arg Lys Leu Leu His Trp Gly Gln Gln Asn Phe Asp
      275     280     285
Thr Val Gln Ile Leu His Asn Gly Lys Lys Val Gly Thr Glu Arg Ile
290     295     300
Trp Tyr Gly Asp Lys Glu Gln Ile Ala Leu Gly Thr Asp Gln Asp Phe
305     310     315     320
Trp Leu Ala Leu Pro Lys Ser Glu Val Pro Asn Ile Lys Ala Lys Tyr
      325     330     335
Val Met Asp Lys Lys Glu Leu Glu Ala Pro Ile Ala Ala His Gln Arg
      340     345     350
Val Gly Glu Ile Gln Leu Tyr Asp Arg Asp Lys Val Val Ala His Trp
      355     360     365
Pro Leu Val Thr Leu Glu Ser Val Glu Lys Gly Gly Leu Phe Ser Arg
370     375     380
Leu Gly Asp Tyr Leu His His Lys Leu
385     390

```

<210> 6466

<211> 457

<212> PRT

<213> Enterobacter cloacae

<400> 6466

Arg Arg Ile Thr Met Ser His Asn Ala Thr Pro Asn Thr Ser Arg Val
 1 5 10 15
 Glu Leu Arg Lys Thr Leu Thr Leu Ile Pro Val Val Met Met Gly Leu
 20 25 30
 Ala Tyr Met Gln Pro Met Thr Leu Phe Asp Thr Phe Gly Ile Val Ser
 35 40 45
 Gly Leu Thr Asp Gly His Val Pro Thr Ala Tyr Gly Phe Ala Leu Ile
 50 55 60
 Ala Ile Leu Phe Thr Ala Leu Ser Tyr Gly Lys Leu Val Arg Arg Tyr
 65 70 75 80
 Pro Ser Ala Gly Ser Ala Tyr Thr Tyr Ala Gln Lys Ser Ile Ser Pro
 85 90 95
 Thr Val Gly Phe Met Val Gly Trp Ser Ser Leu Leu Asp Tyr Leu Phe
 100 105 110
 Ala Pro Met Ile Asn Ile Leu Leu Ala Lys Ile Tyr Phe Glu Ala Leu
 115 120 125
 Val Pro Ser Ile Pro Ser Trp Met Phe Val Val Ala Leu Val Ala Phe
 130 135 140
 Met Thr Ala Phe Asn Leu Arg Ser Ile Lys Ser Val Ala Asn Phe Asn
 145 150 155 160
 Ser Val Ile Val Val Leu Gln Val Val Leu Ile Ala Val Ile Leu Gly
 165 170 175
 Met Val Ile Tyr Gly Val Phe His Gly Glu Gly Ala Gly Thr Leu Ala
 180 185 190
 Ser Ser Lys Pro Phe Trp Ser Gly Asp Ala His Val Ile Pro Met Ile
 195 200 205
 Thr Gly Ala Thr Ile Leu Cys Phe Ser Phe Thr Gly Phe Asp Gly Ile
 210 215 220
 Ser Asn Leu Ser Glu Glu Thr Lys Asp Ala Glu Arg Val Ile Pro Arg
 225 230 235 240
 Ala Ile Phe Leu Thr Ala Leu Ile Gly Gly Leu Ile Phe Ile Phe Ser
 245 250 255
 Thr Tyr Phe Leu Gln Leu Tyr Phe Pro Asp Ile Ser Arg Phe Lys Asp
 260 265 270
 Pro Asp Ala Ser Gln Pro Glu Ile Met Leu Tyr Val Ala Gly Lys Ala
 275 280 285
 Phe Gln Val Gly Ala Leu Ile Phe Ser Thr Ile Thr Val Leu Ala Ser
 290 295 300
 Gly Met Ala Ala His Ala Gly Val Ala Arg Leu Met Tyr Val Met Gly
 305 310 315 320
 Arg Asp Gly Val Phe Pro Lys Ser Phe Phe Gly Tyr Val His Pro Thr
 325 330 335
 Trp Arg Thr Pro Ala Met Asn Ile Ile Leu Val Gly Ala Ile Ala Leu
 340 345 350
 Leu Ala Ile Asn Phe Asp Leu Val Met Ala Thr Ala Leu Ile Asn Phe
 355 360 365
 Gly Ala Leu Val Ala Phe Thr Phe Val Asn Leu Ser Val Ile Ser Gln
 370 375 380
 Phe Trp Ile Arg Glu Lys Arg Asn Lys Thr Leu Lys Asp His Phe Gln
 385 390 395 400
 Tyr Leu Phe Leu Pro Met Cys Gly Ala Met Thr Val Gly Ala Leu Trp
 405 410 415
 Val Asn Leu Glu Ser Ser Met Val Leu Gly Leu Ile Trp Ala Gly
 420 425 430
 Ile Gly Leu Val Tyr Leu Ala Cys Val Thr Lys Ser Phe Arg Asn Pro
 435 440 445
 Val Pro Gln Tyr Glu Asp Val Ala

450

455

<210> 6467
 <211> 175
 <212> PRT
 <213> Enterobacter cloacae

<400> 6467

```

Ser Arg Phe Cys Phe Thr Val Tyr Ile Tyr Thr Val Ile Asn Gly Gly
1      5      10      15
Ser Met Asp Tyr Ser Ile Arg Gln Gln Lys Arg Thr Ile Ala Gly
20      25      30
Phe His Leu Val Gly Pro Trp Glu Lys Thr Val Lys Gln Gly Phe Glu
35      40      45
Gln Leu Val Met Trp Val Asp Gly Arg His Ile Gln Pro Gln Glu Trp
50      55      60
Val Ala Val Tyr Tyr Asp Asn Pro Asp Asp Val Pro Ala Glu Lys Leu
65      70      75      80
Arg Cys Val Thr Ala Val Thr Val Val Asp Val Phe Thr Ile Pro Glu
85      90      95
Asn Ser Glu Gly Val Met Met Thr Glu Ile Ala Ala Gly Glu Tyr Ala
100     105     110
Ile Ala Ala Ala Arg Val Glu Asn His Asp Phe Ala Thr Pro Trp Tyr
115     120     125
Gln Phe Phe Asn Ser Leu Leu Glu Asp Ser Lys Phe Gln Ile Ala Ala
130     135     140
Lys Pro Cys Phe Glu Arg Tyr Leu Asn Asp Gly Asn Ala Asp Gly Tyr
145     150     155     160
Trp Asp Ile Glu Met Phe Val Pro Val Glu His Lys Val Gly
165     170     175

```

<210> 6468
 <211> 65
 <212> PRT
 <213> Enterobacter cloacae

<400> 6468

```

Ser Lys Asn His Leu Met Met Lys Leu Asn Ser Gly Met Ser Cys Asp
1      5      10      15
Phe Cys Gln Ser Ser Leu Leu Glu Asn Pro Val Lys Val Ser Arg Lys
20      25      30
Asn Arg Ile Ala Ala Thr Met Ser Thr Pro Arg Asn Ala Pro Lys Gln
35      40      45
Met Pro Ser Thr Leu Ser Val Pro Asp Arg Pro Val Phe Ser Thr Ser
50      55      60

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65

<210> 6469
 <211> 273
 <212> PRT
 <213> Enterobacter cloacae

<400> 6469

```

Ala Lys Arg Phe Ala Trp Arg Ala Glu Ala Asn Leu Arg Pro Glu Arg
1      5      10      15
Cys Gly Asp Glu Leu Gln Arg Gln Leu Ile Glu Ile Ile Pro Ser Pro
20      25      30
Trp Pro Ser Pro Gln Arg Gly Glu Gly Ser Val Tyr Ser Leu Ser Leu
35      40      45
Glu Gly Glu Gly Arg Gly Glu Gly Glu Ala Asp Val His Arg Asn Val

```

50		55		60
Asn Gly Ala Val Ala	Leu Ser Ile Phe Ser	Ala Pro Phe Leu Phe Thr		
65	70	75	80	
Arg Gly Lys Glu Ile	Pro Thr Gln Thr Phe Ser	Phe Ser Val Arg Ile		
	85	90	95	
Arg Pro Glu Leu Asp	Asp Arg Ala Phe Asn Arg	Gly Thr His Met Val		
	100	105	110	
Trp Ile Asp Tyr Ala	Ile Ile Ala Val Ile Gly	Phe Ser Cys Leu Val		
	115	120	125	
Ser Leu Ile Arg Gly	Phe Val Arg Glu Ala Leu	Ser Leu Val Thr Trp		
	130	135	140	
Gly Cys Ala Phe Phe	Val Ala Ser His Tyr Tyr	Thr Tyr Leu Ser Val		
145	150	155	160	
Trp Phe Thr Gly Phe	Glu Asp Glu Leu Val Arg	Asn Gly Ile Ala Ile		
	165	170	175	
Ala Val Leu Phe Ile	Ala Thr Leu Ile Val Gly	Ala Ile Val Asn Tyr		
	180	185	190	
Val Ile Gly Gln Leu	Val Glu Lys Thr Gly	Leu Ser Gly Thr Asp Arg		
	195	200	205	
Val Leu Gly Ile Cys	Phe Gly Ala Leu Arg Gly	Val Leu Ile Val Ala		
	210	215	220	
Ala Ile Leu Phe Phe	Leu Asp Thr Phe Thr Gly	Phe Ser Lys Ser Glu		
225	230	235	240	
Asp Trp Gln Lys Ser	Gln Leu Ile Pro Glu Phe	Ser Phe Ile Ile Arg		
	245	250	255	
Trp Phe Phe Asp Tyr	Leu Gln Ser Ser Ser	Ser Phe Leu Pro Arg Ala		
	260	265	270	

<210> 6470

<211> 517

<212> PRT

<213> Enterobacter cloacae

<400> 6470

Thr Leu Arg Cys Gly	Leu Thr Arg Lys Arg	Arg Met Cys Gly	Ile Val
1	5	10	15
Gly Ile Ala Gly Phe	Met Pro Val Asn Gln	Ser Ile Tyr Asp	Ala Leu
	20	25	30
Thr Val Leu Gln His	Arg Gly Gln Asp	Ala Ala Gly	Ile Thr Ile
	35	40	45
Asp Ala Asn Asn Cys	Phe Arg Leu Arg Lys	Ala Asn Gly	Leu Val Asn
	50	55	60
Asp Val Phe Glu Ala	Arg His Met Gln Arg	Leu Gln Gly	Asn Met Gly
65	70	75	80
Ile Gly His Val Arg	Tyr Pro Thr Ala Gly	Ser Ser Ser	Ala Ser Glu
	85	90	95
Ala Gln Pro Phe Tyr	Val Asn Ser Pro Tyr	Gly Ile Thr	Leu Ala His
	100	105	110
Asn Gly Asn Leu Thr	Asn Ala His Glu	Leu Arg Lys	Lys Leu Phe Glu
	115	120	125
Glu Lys Arg Arg His	Ile Asn Thr Thr Ser	Asp Ser Glu	Ile Leu Leu
	130	135	140
Asn Ile Phe Ala Ser	Glu Leu Asp Asn Phe	Arg His Tyr	Pro Leu Glu
145	150	155	160
Ala Asp Asn Ile Phe	Ala Ala Val Ala Ala	Thr Asn Arg	Gln Ile Arg
	165	170	175
Gly Ala Tyr Ala Cys	Val Ala Met Ile Ile	Gly His Gly	Met Val Ala
	180	185	190
Phe Arg Asp Pro Asn	Gly Ile Arg Pro Leu	Val Leu Gly	Lys Arg Asp

```

      195              200              205
Leu Gly Asp Gly Arg Ser Glu Tyr Met Val Ala Ser Glu Ser Val Ala
210              215              220
Leu Asp Thr Leu Gly Phe Glu Phe Leu Arg Asp Val Ala Pro Gly Glu
225              230              235              240
Ala Val Tyr Ile Thr Glu Lys Gly Gln Leu Phe Thr Arg Gln Cys Ala
245              250              255
Asp Asn Pro Val Ser Asn Pro Cys Leu Phe Glu Tyr Val Tyr Phe Ala
260              265              270
Arg Pro Asp Ser Phe Ile Asp Lys Ile Ser Val Tyr Ser Ala Arg Val
275              280              285
Asn Met Gly Thr Lys Leu Gly Glu Lys Ile Ala Arg Glu Trp Asp Asp
290              295              300
Leu Asp Ile Asp Val Val Ile Pro Ile Pro Glu Thr Ser Cys Asp Ile
305              310              315              320
Ala Leu Glu Ile Ala Arg Ile Leu Asp Lys Pro Tyr Arg Gln Gly Phe
325              330              335
Val Lys Asn Arg Tyr Val Gly Arg Thr Phe Ile Met Pro Gly Gln Gln
340              345              350
Leu Arg Arg Lys Ser Val Arg Arg Lys Leu Asn Ala Asn Arg Ala Glu
355              360              365
Phe Arg Asp Lys Asn Val Leu Leu Val Asp Asp Ser Ile Val Arg Gly
370              375              380
Thr Thr Ser Glu Gln Ile Ile Glu Met Ala Arg Glu Ala Gly Ala Lys
385              390              395              400
Lys Val Tyr Leu Ala Ser Ala Ala Pro Glu Ile Arg Phe Pro Asn Val
405              410              415
Tyr Gly Ile Asp Met Pro Thr Ala Asn Glu Leu Ile Ala His Gly Arg
420              425              430
Glu Val Asp Glu Ile Arg Gln Ile Ile Gly Ala Asp Gly Leu Ile Phe
435              440              445
Gln Asp Leu Asn Asp Leu Ile Asp Ala Val Arg Ala Glu Asn Pro Asp
450              455              460
Ile Gln Gln Phe Glu Cys Ser Val Phe Asn Gly Ile Tyr Val Thr Lys
465              470              475              480
Asp Val Asp Gln Gln Tyr Leu Asp Tyr Leu Asp Ser Leu Arg Asn Asp
485              490              495
Asp Ala Lys Ala Val Gln Leu Gln Asn Asp Leu Glu Ser Leu Glu Met
500              505              510
His Asn Glu Gly
515

```

<210> 6471

<211> 253

<212> PRT

<213> Enterobacter cloacae

<400> 6471

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Arg Ala Ala Pro Pro Val Pro Gly Gly Glu Lys Thr Arg Phe His His
1              5              10              15
Ser Arg Asp Asp Arg Ala Arg Gly Met Leu Tyr Gly Phe Ser Gly Val
20              25              30
Ile Leu Gln Gly Ala Leu Val Thr Leu Glu Leu Ala Ile Ser Ser Val
35              40              45
Val Leu Ala Val Leu Ile Gly Leu Ala Gly Ala Gly Ala Lys Leu Ser
50              55              60
Ala Asn Arg Pro Leu Ala Leu Ile Phe Glu Gly Tyr Thr Thr Leu Ile
65              70              75              80
Arg Gly Val Pro Asp Leu Val Leu Met Leu Leu Ile Phe Tyr Gly Leu
85              90              95
Gln Ile Ala Leu Asn Gly Val Thr Asp Ala Ile Gly Met Glu Gln Ile

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      100      105      110
Asp Ile Asp Pro Met Val Ala Gly Ile Ile Thr Leu Gly Phe Ile Tyr
      115      120      125
Gly Ala Tyr Phe Thr Glu Thr Phe Arg Gly Ala Tyr Met Ala Val Pro
      130      135      140
Lys Gly His Ile Glu Ala Ala Thr Ala Tyr Gly Phe Thr Ser Ser Gln
      145      150      155      160
Thr Phe Arg Arg Ile Met Phe Pro Ala Met Met Arg Tyr Ala Leu Pro
      165      170      175
Gly Ile Gly Asn Asn Trp Gln Val Ile Leu Lys Ala Thr Ala Leu Val
      180      185      190
Ser Leu Leu Gly Leu Glu Asp Val Lys Ala Thr Gln Leu Ala Gly
      195      200      205
Lys Ser Thr Trp Glu Pro Phe Tyr Phe Ala Val Val Cys Gly Leu Ile
      210      215      220
Tyr Leu Val Phe Thr Thr Val Ser Asn Gly Val Leu Leu Leu Leu Glu
      225      230      235      240
Arg Arg Tyr Ser Val Gly Val Lys Arg Ala Asp Leu
      245      250

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<210> 6472
<211> 154
<212> PRT
<213> Enterobacter cloacae

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<400> 6472
Ser Arg Pro Gly Lys Thr Ala Ala Arg Ser Leu Asp Pro Ser Gly Leu
1      5      10      15
Gly Thr Asn Asn Asn Ile Glu Ile Asp Pro Val Pro Glu Glu Gln His
      20      25      30
Lys Pro Val Glu Lys Pro Lys Pro Val Glu Lys Pro Gln Pro Lys Pro
      35      40      45
Gln Arg Asp Lys Ala Ala Glu Gln Leu Ala Ala Ala Ser Glu Thr Pro
      50      55      60
Pro Gln Ala Lys Gln Asp Ala Ala Pro Thr Gly Lys Ala Tyr Val Val
      65      70      75      80
Gln Leu Gly Ala Leu Lys Asn Ala Asp Lys Val Asn Glu Ile Val Ser
      85      90      95
Lys Leu Arg Gly Ala Gly Tyr Arg Val Tyr Thr Ser Pro Thr Thr Pro
      100      105      110
Val Gln Gly Lys Ile Thr Arg Ile Leu Val Gly Pro Asp Ala Ser Lys
      115      120      125
Asp Lys Leu Lys Gly Ser Leu Gly Glu Leu Lys Gln Ile Ser Gly Leu
      130      135      140
Ser Gly Val Val Met Asn Tyr Ser Ala Asn
      145      150

```

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<210> 6473
<211> 329
<212> PRT
<213> Enterobacter cloacae

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```

<400> 6473
Phe Ala Phe Ser Phe Phe Leu Phe Pro Val Arg Ser Ala Asp Leu Leu
1      5      10      15
Ser Phe Thr Ile Lys Ala Val Ser Gln Arg Phe Ile Asn Ile Phe Asn
      20      25      30
Val Val Val Leu Ser Arg Arg Gln Cys Gly Ile Arg Pro Ala Arg Ala
      35      40      45
Ala Cys Asn Thr Thr His Asn Ile Asn His Asn Lys Ile Thr Val Leu
      50      55      60

```

Glu Gly Lys Cys Met Lys Lys Thr Val Leu Ala Leu Ser Leu Leu Val
 65 70 75 80
 Gly Leu Ser Ala Ala Ser Ser Tyr Ala Ala Leu Pro Gln Thr Val
 85 90 95
 Arg Ile Gly Thr Asp Ala Thr Tyr Ala Pro Phe Ser Ser Lys Asp Ala
 100 105 110
 Lys Gly Asp Phe Val Gly Phe Asp Ile Asp Leu Gly Asn Glu Met Cys
 115 120 125
 Lys Arg Leu Glu Val Lys Cys Thr Trp Val Gly Ser Asp Phe Asp Ala
 130 135 140
 Leu Ile Pro Ser Leu Lys Ala Lys Lys Ile Asp Ala Ile Ile Ser Ser
 145 150 155 160
 Leu Ser Ile Thr Glu Lys Arg Gln Gln Glu Ile Ala Phe Ser Glu Lys
 165 170 175
 Leu Tyr Ala Ala Asp Ser Arg Leu Ile Ala Ala Lys Gly Ser Pro Ile
 180 185 190
 Gln Pro Thr Ile Asp Ser Leu Lys Gly Lys His Val Gly Val Leu Gln
 195 200 205
 Gly Ser Thr Gln Glu Gly Phe Ala Asn Ala Asn Trp Arg Glu Lys Gly
 210 215 220
 Val Asp Val Val Ala Tyr Gln Asn Gln Asp Leu Ile Tyr Ser Asp Leu
 225 230 235 240
 Ala Ala Gly Arg Leu Asp Ala Ala Phe Gln Asp Glu Val Ala Ala Ser
 245 250 255
 Glu Gly Phe Leu Lys Gln Pro Ala Gly Lys Glu Tyr Ala Phe Ala Gly
 260 265 270
 Pro Ser Val Lys Asp Lys Lys Tyr Phe Gly Asp Gly Thr Gly Ile Gly
 275 280 285
 Leu Arg Lys Asp Asp Thr Glu Leu Lys Ala Ala Phe Asp Lys Ala Phe
 290 295 300
 Asn Glu Leu Arg Lys Asp Gly Thr Tyr Asp Lys Leu Ala Lys Lys Tyr
 305 310 315 320
 Phe Asn Phe Asn Val Tyr Gly Asp
 325

<210> 6474

<211> 72

<212> PRT

<213> Enterobacter cloacae

<400> 6474

Thr Gly Pro Lys Arg Asn Arg His Arg Gly Ala Val Tyr Arg Asp Val
 1 5 10 15
 Asp Cys Arg Arg Tyr Arg Gln Leu Arg Asp Arg Ser Ala Gly Arg Glu
 20 25 30
 Asn Arg Ser Val Arg Asn Gly Gln Gly Ala Arg His Leu Phe Arg Arg
 35 40 45
 Val Ala Arg Arg Ala His Cys Gly Arg Asp Pro Val Leu Pro Gly Tyr
 50 55 60
 Leu Tyr Arg Val Leu Gln Lys
 65 70

<210> 6475

<211> 204

<212> PRT

<213> Enterobacter cloacae

<400> 6475

Asn Pro Ala Gln Ser Ala Leu Lys Ser Ala Arg Ala Lys Ile Met Lys
 1 5 10 15
 Arg Leu Ile Val Gly Ile Ser Gly Ala Ser Gly Ala Ile Tyr Gly Val

20	25	30
Arg Leu Leu Gln Val Leu Arg Asp Val Ala Gly Val Glu Thr His Leu		
35	40	45
Val Met Ser Gln Ala Ala Arg Gln Thr Leu Ser Leu Glu Thr Asp Leu		
50	55	60
Ser Leu Arg Asp Val Gln Ala Leu Ser Asp Val Val His Asp Ala Arg		
65	70	75
Asp Ile Ala Ala Ser Ile Ser Ser Gly Ser Phe Lys Thr Ala Gly Met		
85	90	95
Val Ile Leu Pro Cys Ser Ile Lys Thr Leu Ser Gly Ile Val Asn Ser		
100	105	110
Tyr Thr Asp Thr Leu Val Thr Arg Ala Ala Asp Val Val Leu Lys Glu		
115	120	125
Arg Arg Pro Leu Val Leu Cys Val Arg Glu Thr Pro Leu His Leu Gly		
130	135	140
His Leu Arg Leu Met Thr Gln Ala Ala Glu Leu Gly Ala Val Ile Met		
145	150	155
Pro Pro Val Pro Ala Phe Tyr His Arg Pro Gln Thr Leu Asp Asp Val		
165	170	175
Ile Asn Gln Thr Val Asn Arg Val Leu Asp Gln Phe Asp Ile Asp Leu		
180	185	190
Pro Glu Asp Leu Phe Thr Arg Trp Gln Gly Ala		
195	200	

<210> 6476

<211> 268

<212> PRT

<213> Enterobacter cloacae

<400> 6476

Asp Ser Leu Leu Arg Thr Asp Met Lys Lys Leu Val Leu Ser Leu Ser		
1	5	10
Leu Val Leu Ala Phe Ser Ser Ala Thr Ala Ala Phe Ala Ala Ile Pro		
20	25	30
Gln Lys Ile Arg Ile Gly Thr Asp Pro Thr Tyr Ala Pro Phe Glu Ser		
35	40	45
Lys Asn Ala Lys Gly Glu Leu Val Gly Phe Asp Ile Asp Leu Ala Asn		
50	55	60
Glu Leu Cys Lys Arg Ile Lys Val Gln Cys Thr Tyr Val Glu Asn Pro		
65	70	75
Leu Asp Ala Leu Ile Pro Ser Leu Lys Ala Lys Lys Ile Asp Val Ile		
85	90	95
Met Ser Ser Leu Ser Ile Thr Glu Lys Arg Gln Gln Glu Ile Ala Phe		
100	105	110
Thr Asp Lys Leu Tyr Ala Ala Asp Ser Arg Leu Val Val Ala Lys Ser		
115	120	125
Ser Asp Ile Gln Pro Thr Leu Glu Ser Leu Lys Gly Lys Arg Val Gly		
130	135	140
Val Leu Gln Gly Thr Thr Gln Glu Thr Tyr Gly Asn Glu His Trp Ala		
145	150	155
Pro Lys Gly Ile Glu Ile Val Ser Tyr Gln Gly Gln Glu Asn Ile Tyr		
165	170	175
Ala Asp Leu Thr Ala Gly Arg Ile Asp Ala Ala Phe Gln Asp Glu Val		
180	185	190
Ala Ala Ser Glu Gly Phe Leu Lys Gln Pro Val Gly Lys Asp Tyr Lys		
195	200	205
Phe Gly Gly Pro Ser Ile Lys Asp Glu Lys Leu Phe Gly Val Gly Thr		
210	215	220
Gly Met Gly Leu Arg Lys Glu Asp Asn Glu Leu Arg Glu Ala Leu Asn		
225	230	235
Lys Ala Phe Ala Glu Met Arg Ala Asp Gly Thr Tyr Asp Lys Leu Ala		


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<210> 6477
<211> 239
<212> PRT
<213> Enterobacter cloacae
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Pro 1	Val	Ile	Glu	Ile 5	Ile	Gln	Glu	Tyr	Trp 10	Lys	Ser	Leu	Leu	Trp 15	Thr
Asp	Gly	Tyr	Arg	Phe	Thr	Gly	Val	Ala 25	Ile	Thr	Leu	Trp	Leu	Leu	Ile
Ser	Ser	Val	Val	Met	Gly	Gly	Ile	Leu	Ala	Val	Phe	Leu	Ala	Ile	Gly
Arg	Val	Ser	Asn	Asn	Lys	Phe	Ile	Gln	Phe	Pro	Ile	Trp	Leu	Phe	Thr
Tyr 65	Val	Phe	Arg	Gly	Thr	Pro	Leu	Tyr	Val	Gln	Leu	Leu	Val	Phe	Tyr
Ser	Gly	Met	Tyr	Thr	Leu	Glu	Ile	Val	Lys	Gly	Thr	Glu	Met	Leu	Asn
Ala	Phe	Phe	Arg	Ser	Gly	Leu	Asn	Cys	Thr	Val	Leu	Ala	Leu	Thr	Leu
Asn	Thr	Cys	Ala	Tyr	Thr	Thr	Glu	Ile	Phe	Ala	Gly	Ala	Ile	Arg	Ser
Val	Pro	His	Gly	Glu	Ile	Glu	Ala	Ala	Arg	Ala	Tyr	Gly	Phe	Ser	Ser
Val 145	Lys	Leu	Tyr	Arg	Cys	Ile	Ile	Leu	Pro	Ser	Ala	Leu	Arg	Ile	Ala
Leu	Pro	Ala	Tyr	Ser	Asn	Glu	Val	Ile	Leu	Met	Leu	His	Ser	Thr	Ala
Leu	Ala	Phe	Thr	Ala	Thr	Val	Pro	Asp	Leu	Leu	Lys	Ile	Ala	Arg	Asp
Ile	Asn	Ser	Ala	Thr	Tyr	Gln	Pro	Phe	Thr	Ala	Phe	Gly	Ile	Ala	Ala
Val	Leu	Tyr	Leu	Ile	Ile	Ser	Tyr	Val	Leu	Ile	Ser	Leu	Phe	Arg	Lys
Ala 225	Glu	Lys	Arg	Trp	Leu	Gln	His	Ile	Lys	Pro	Ser	Thr	His		

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<210> 6478
<211> 309
<212> PRT
<213> Enterobacter cloacae
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Leu	Tyr	Leu	Ser	Ala	Ala	Pro	Ala	Ser	Leu	Arg	Gly	Glu	Asp	Leu	Gln
1				5					10					15	
Lys	Arg	Leu	Arg	Arg	Asn	Val	Gly	Glu	Ala	Ile	Ala	Asp	Phe	Asn	Met
		20						25					30		
Ile	Glu	Glu	Gly	Asp	Arg	Ile	Met	Val	Cys	Leu	Ser	Gly	Gly	Lys	Asp
		35					40					45			
Ser	Tyr	Thr	Met	Leu	Glu	Ile	Leu	Arg	Asn	Leu	Gln	Gln	Ser	Ala	Pro
	50					55					60				
Val	Asn	Phe	Ser	Leu	Val	Ala	Val	Asn	Leu	Asp	Gln	Lys	Gln	Pro	Gly
65					70					75					80
Phe	Pro	Glu	His	Ile	Leu	Pro	Glu	Tyr	Leu	Asp	Asn	Leu	Gly	Val	Glu
				85						90				95	
Tyr	Lys	Ile	Val	Glu	Glu	Asn	Thr	Tyr	Gly	Ile	Val	Lys	Glu	Lys	Ile
			100					105					110		

Pro Glu Gly Lys Thr Thr Cys Ser Leu Cys Ser Arg Leu Arg Arg Gly
 115 120 125
 Ile Leu Tyr Arg Thr Ala Thr Glu Leu Gly Ala Thr Lys Ile Ala Leu
 130 135 140
 Gly His His Arg Asp Asp Ile Leu Gln Thr Leu Phe Leu Asn Met Phe
 145 150 155 160
 Tyr Gly Gly Lys Met Lys Gly Met Pro Pro Lys Leu Met Ser Asp Asp
 165 170 175
 Gly Lys His Ile Val Ile Arg Pro Leu Ala Tyr Cys Arg Glu Lys Asp
 180 185 190
 Ile Glu Arg Phe Ser Gln Ala Lys Ala Phe Pro Ile Ile Pro Cys Asn
 195 200 205
 Leu Cys Gly Ser Gln Pro Asn Leu Gln Arg Gln Val Ile Gly Asp Met
 210 215 220
 Leu Arg Asp Trp Asp Lys Arg Tyr Pro Gly Arg Ile Glu Thr Met Phe
 225 230 235 240
 Ser Ala Met Gln Asn Val Val Pro Ser His Leu Ala Asp Val Glu Leu
 245 250 255
 Phe Asp Phe Lys Gly Ile Asn His Gly Ser Glu Val Val Asn Gly Gly
 260 265 270
 Asp Leu Ala Phe Asp Arg Glu Glu Ile Pro Met Gln Pro Ala Gly Trp
 275 280 285
 Gln Pro Glu Glu Glu Asp Ala Gln Phe Asp Glu Leu Arg Leu Asn Val
 290 295 300
 Val Glu Val Lys
 305

<210> 6479

<211> 388

<212> PRT

<213> Enterobacter cloacae

<400> 6479

Cys Gln Pro Lys Tyr Asn Ala Pro Gly Lys Arg Met Leu Arg Asn Ile
 1 5 10 15
 Ser Val Arg Thr Phe Ile Val Tyr Phe Leu Leu Cys Val Phe Leu Val
 20 25 30
 Ser Asp Gly Val Ile Ala Leu Phe Ser Arg Asn Ser Ser Leu Phe Ile
 35 40 45
 Ala Val Ile Ile Val Gln Phe Ile Ala Leu Phe Leu Leu Trp Ala Tyr
 50 55 60
 Met Thr Lys Tyr Leu Val Thr Pro Ile Asn Thr Val Lys Lys Ser Ile
 65 70 75 80
 Glu Glu Val Thr Ser Gly Lys Leu Gly Val Ser Ile Pro Glu Phe Gly
 85 90 95
 Asn Asn Cys Ala Gly Arg Leu Ile Pro Gly Ile Asn Ser Leu Ser Ser
 100 105 110
 Asn Ile Ala Thr Leu Val Arg Glu Ile Arg Ala Ser Ser Gln Thr Ala
 115 120 125
 Met Thr Leu Ser Asp Gln Leu Ser Ser Arg Ser Ala Gln Leu Ser Val
 130 135 140
 Lys Thr Glu Gln Gln Ser Ala Ser Leu Val Gln Thr Ala Ala Ser Met
 145 150 155 160
 Glu Glu Met Ala Ala Ser Thr Lys Asn Asn Ala Asp Asn Thr Arg Leu
 165 170 175
 Ala Ser Glu Gln Ala Asn Leu Ala Thr Leu Gln Ala Arg Lys Gly Gly
 180 185 190
 Glu Leu Met Gly Gln Val Ala Asn Asn Met Gln Ser Ile Thr Asp Cys
 195 200 205
 Ala Gln Gln Met Thr Glu Ile Ile Ser Leu Ile Asp Gly Ile Ala Phe
 210 215 220

Gln Thr Asn Ile Leu Ala Leu Asn Ala Ala Val Glu Ala Ala Arg Ala
 225 230 235 240
 Gly Asp His Gly Lys Gly Phe Ser Val Val Ala Gly Glu Val Arg Ser
 245 250 255
 Leu Ala His Arg Ser Ala Glu Ala Ala Lys Asn Ile Lys Ser Leu Ile
 260 265 270
 Glu Val Thr Ser His Asn Val Thr Gln Gly Val Asn Val Val Ser Glu
 275 280 285
 Ala Glu Lys Asn Met His Asp Ile Val Thr Gly Ser Gly Asn Val Ser
 290 295 300
 Arg Leu Met Asp Glu Ile Ser Ala Ser Thr Ser Glu Gln Glu Lys Gly
 305 310 315 320
 Ile Ser Gln Ile Thr Gln Ala Leu Ser Glu Leu Glu Arg Val Thr Gln
 325 330 335
 Ser Asn Val Ser Met Val Glu Glu Leu Asn Gly Ser Ser Asp Val Leu
 340 345 350
 Arg Asn Gln Val Ile Glu Leu Gln Thr Arg Thr Arg Asn Phe Arg Leu
 355 360 365
 Glu Asn Glu Leu Gln Ala Asp Asn Ala Leu Arg Ser Arg Glu Trp Ala
 370 375 380
 Val Asn Ser
 385

<210> 6480

<211> 333

<212> PRT

<213> *Enterobacter cloacae*

<400> 6480

Asn Gly Gly Gly Ala Val Glu Ser Ile Lys Gly Ser Glu Val Asn Val
 1 5 10 15
 Pro Asp Ala Val Phe Ala Trp Val Phe Asp Gly Arg Gly Gly Ala Arg
 20 25 30
 Pro Leu Glu Asp Gln Asp His Ile Asp Asn Glu His Pro Cys Trp Leu
 35 40 45
 His Leu Asn Tyr Thr His Pro Asp Ser Ala Glu Trp Leu Ala Ser Thr
 50 55 60
 Pro Leu Leu Pro Asn Asn Val Arg Asp Ala Leu Ala Gly Glu Ser Leu
 65 70 75 80
 Arg Pro Arg Val Ser Arg Met Gly Glu Gly Thr Leu Ile Thr Leu Arg
 85 90 95
 Cys Ile Asn Gly Ser Thr Asp Glu Arg Pro Asp Gln Leu Val Ala Met
 100 105 110
 Arg Val Tyr Met Asp Glu Arg Leu Ile Val Ser Thr Arg Gln Arg Lys
 115 120 125
 Val Leu Ala Leu Asp Asp Val Ile Asn Asp Leu Lys Glu Gly Thr Gly
 130 135 140
 Pro Thr Asp Cys Gly Ser Trp Leu Val Asp Val Cys Asp Ala Leu Thr
 145 150 155 160
 Asp His Ala Ser Glu Phe Ile Glu Glu Leu His Asp Lys Ile Ile Asp
 165 170 175
 Leu Glu Asp Asn Leu Leu Asp Gln Gln Ile Pro Pro Arg Gly Phe Leu
 180 185 190
 Ala Leu Leu Arg Lys Gln Leu Ile Val Met Arg Arg Tyr Met Thr Pro
 195 200 205
 Gln Arg Asp Val Tyr Ala Arg Leu Ala Ser Glu Arg Met Ser Trp Met
 210 215 220
 Asn Asp Asp Gln Arg Arg Arg Met Gln Asp Ile Ala Asp Arg Leu Gly
 225 230 235 240
 Arg Gly Leu Asp Glu Ile Asp Ser Cys Ile Ala Arg Thr Ala Val Met
 245 250 255

Ala Asp Glu Ile Ala Gln Val Met Gln Glu Ser Leu Ala Arg Arg Thr
 260 265 270
 Tyr Thr Met Ser Leu Met Ala Met Val Phe Leu Pro Ser Thr Phe Leu
 275 280 285
 Thr Gly Leu Phe Gly Val Asn Leu Gly Gly Ile Pro Gly Gly Glu Tyr
 290 295 300
 His Tyr Gly Phe Thr Thr Phe Cys Val Met Leu Val Val Leu Ile Gly
 305 310 315 320
 Gly Val Ala Trp Trp Leu His Arg Ser Lys Trp Leu
 325 330

<210> 6481

<211> 467

<212> PRT

<213> Enterobacter cloacae

<400> 6481

Leu Gln Ser Leu Leu Arg Glu Tyr Ile Val Thr Ala Phe Ser Thr Leu
 1 5 10 15
 Asn Val Leu Pro Glu Ala Gln Leu Ala Asn Leu Asn Glu Leu Gly Tyr
 20 25 30
 Leu Thr Met Thr Pro Val Gln Ala Ala Leu Pro Ala Ile Leu Glu
 35 40 45
 Gly Arg Asp Val Arg Val Gln Ala Lys Thr Gly Ser Gly Lys Thr Ala
 50 55 60
 Ala Phe Gly Leu Gly Leu Leu Gln His Ile Asp Ala Thr Leu Phe Gln
 65 70 75 80
 Thr Gln Ser Leu Ile Leu Cys Pro Thr Arg Glu Leu Ala Asp Gln Val
 85 90 95
 Ala Gly Glu Leu Arg Arg Leu Ala Arg Phe Leu Pro Asn Thr Lys Ile
 100 105 110
 Leu Thr Leu Cys Gly Gly Gln Pro Phe Gly Ala Gln Arg Asp Ser Leu
 115 120 125
 Gln His Ala Pro His Ile Ile Val Ala Thr Pro Gly Arg Leu Leu Asp
 130 135 140
 His Leu Gln Lys Gly Thr Val Ser Leu Asp Ala Leu Gln Thr Leu Val
 145 150 155 160
 Met Asp Glu Ala Asp Arg Met Leu Asp Met Gly Phe Ser Asp Ala Ile
 165 170 175
 Asp Glu Val Ile Arg Phe Ala Pro Ala Thr Arg Gln Thr Leu Leu Phe
 180 185 190
 Ser Ala Thr Trp Pro Glu Ala Ile Ala Ala Ile Ser Gly Arg Val Gln
 195 200 205
 Lys Asn Pro Leu Thr Ile Glu Ile Asp Thr Val Asp Ala Leu Pro Ala
 210 215 220
 Ile Glu Gln Gln Phe Phe Glu Thr Ser Gln Gln Gly Lys Ile Pro Leu
 225 230 235 240
 Leu Gln Lys Leu Leu Ser Gln His Gln Pro Ala Ser Cys Val Val Phe
 245 250 255
 Cys Asn Thr Lys Lys Asp Cys Gln Ala Val Cys Asp Ala Leu Asn Asp
 260 265 270
 Ala Gly Gln Ser Ala Leu Ser Leu His Gly Asp Leu Glu Gln Arg Asp
 275 280 285
 Arg Asp Gln Thr Leu Val Arg Phe Ala Asn Gly Ser Ala Arg Val Leu
 290 295 300
 Val Ala Thr Asp Val Ala Ala Arg Gly Leu Asp Ile Lys Ser Leu Glu
 305 310 315 320
 Leu Val Val Asn Phe Glu Leu Ala Trp Asp Pro Glu Val His Val His
 325 330 335
 Arg Ile Gly Arg Thr Ala Arg Ala Gly Asn Ser Gly Leu Ala Ile Ser
 340 345 350

Phe Cys Ala Pro Glu Glu Ala Gln Arg Ala Asn Ile Leu Ser Glu Met
 355 360 365
 Leu Gln Leu Lys Leu Asn Trp Val Asn Thr Pro Asp Asn Ile Ser Ile
 370 375 380
 Ala Pro Leu Ala Ala Glu Met Ala Thr Leu Cys Ile Asp Gly Gly Lys
 385 390 395 400
 Lys Ala Lys Met Arg Pro Gly Asp Val Leu Gly Ala Leu Thr Gly Asp
 405 410 415
 Met Gly Leu Asp Gly Ala Asp Ile Gly Lys Ile Thr Val His Pro Ala
 420 425 430
 His Val Tyr Val Ala Val Arg Gln Ser Val Ala His Lys Ala Trp Lys
 435 440 445
 Gln Leu Gln Gly Gly Lys Ile Lys Gly Lys Thr Cys Arg Val Arg Leu
 450 455 460
 Leu Lys
 465

<210> 6482

<211> 174

<212> PRT

<213> Enterobacter cloacae

<400> 6482

His Leu Phe Leu Leu Lys Lys Gly Ile Ala Met Ala Asp Ser Phe Gln
 1 5 10 15
 Asn Glu Val Pro Lys Ala Arg Ile Asn Leu Lys Leu Ala Leu His Thr
 20 25 30
 Gly Gly Ala Gln Lys Lys Ile Glu Leu Pro Leu Lys Leu Thr Val
 35 40 45
 Gly Asp Phe Ser Asn Gly Lys Glu Asn Arg Pro Leu Ser Glu Arg Glu
 50 55 60
 Lys Ile Asn Val Asn Lys Asn Asn Phe Asn Ser Val Leu Ser Glu Phe
 65 70 75 80
 Asn Pro Glu Val Asn Leu Thr Val Pro Asn Thr Met Ala Gly Asp Gly
 85 90 95
 Ser Glu Glu Ser Ile Lys Leu Asn Phe Ser Asp Ile Lys Asp Phe Glu
 100 105 110
 Pro Glu Gln Val Ala Arg Gln Ile Pro Gln Leu Arg Ala Met Leu Ala
 115 120 125
 Met Arg Asn Leu Leu Arg Asp Leu Lys Ser Asn Leu Leu Asp Asn Ala
 130 135 140
 Thr Phe Arg Lys Glu Leu Glu Lys Ile Leu Lys Asp Pro Ala Leu Ser
 145 150 155 160
 Gln Glu Leu Arg Asp Glu Met Ser Ala Leu Ala Pro Lys
 165 170

<210> 6483

<211> 219

<212> PRT

<213> Enterobacter cloacae

<400> 6483

Thr Gly Ala Val Ser Met Phe Thr Gly Ile Val Gln Gly Thr Ala Lys
 1 5 10 15
 Val Val Ser Ile Asp Glu Lys Pro Asn Phe Arg Thr His Val Val Glu
 20 25 30
 Leu Pro Glu Tyr Met Leu Asp Gly Ile Glu Thr Gly Ala Ser Ile Ala
 35 40 45
 His Asn Gly Cys Cys Leu Thr Val Thr Glu Ile Asn Gly Asn Gln Ile
 50 55 60
 Ser Phe Asp Leu Met Lys Glu Thr Leu Arg Ile Thr Asn Leu Gly Glu

65		70		75		80									
Leu	Val	Val	Gly	Asp	Ile	Ile	Asn	Val	Glu	Arg	Ala	Ala	Lys	Phe	Ser
			85						90					95	
Asp	Glu	Ile	Gly	Gly	His	Leu	Met	Ser	Gly	His	Ile	Met	Thr	Thr	Ala
			100					105					110		
Glu	Val	Ala	Lys	Ile	Val	Thr	Ser	Glu	Asn	Asn	Arg	Gln	Ile	Trp	Phe
			115				120					125			
Lys	Val	Gln	Asp	Pro	Ser	Leu	Met	Lys	Tyr	Ile	Leu	Tyr	Lys	Gly	Phe
			130				135					140			
Ile	Gly	Ile	Asp	Gly	Ile	Ser	Leu	Thr	Val	Gly	Glu	Val	Thr	Pro	Thr
145						150				155					160
Arg	Phe	Cys	Val	His	Leu	Ile	Pro	Glu	Thr	Leu	Gln	Arg	Thr	Thr	Leu
				165					170					175	
Gly	Ala	Lys	Lys	Leu	Gly	Gln	Arg	Val	Asn	Ile	Glu	Ile	Asp	Pro	Gln
			180					185					190		
Thr	Gln	Ala	Val	Val	Asp	Thr	Val	Glu	Arg	Val	Leu	Ala	Ala	Lys	Glu
		195					200					205			
Ala	Ala	Ile	Ile	Lys	Thr	Val	Glu	Glu	Glu						
		210					215								

<210> 6484

<211> 444

<212> PRT

<213> Enterobacter cloacae

<400> 6484

Ile	Lys	Arg	Ser	Ala	Ser	Ser	Gln	Ala	Ala	Ser	Arg	Thr	His	Ser	Met
1				5					10					15	
Pro	Arg	Gln	Pro	Ala	Ala	Lys	Ile	Ala	Ser	Pro	Asn	Asn	Arg	Thr	Gly
			20					25					30		
Leu	Arg	Pro	Lys	Arg	Ser	Glu	Ser	Gly	Pro	His	Ser	Asn	Cys	Ala	Lys
			35				40					45			
Ala	Lys	Pro	Ala	Arg	Asn	Lys	Leu	Lys	Leu	Ala	Leu	Met	Ala	Ala	Ala
			50			55				60					
Gly	Val	Cys	Lys	Ser	Ser	Cys	Ile	Ala	Ala	Asn	Ala	Gly	Arg	Tyr	Ile
65					70				75					80	
Ser	Val	Ala	Lys	Lys	Pro	Ser	Thr	Leu	Lys	Pro	Pro	Ser	Gln	Thr	Lys
			85						90				95		
Asn	Pro	Phe	Leu	Gly	Cys	Thr	Phe	Phe	Leu	Leu	Arg	Arg	Gln	Val	Tyr
			100					105					110		
Val	Gly	Ala	Glu	Cys	Arg	Glu	Cys	Lys	Ala	Ala	Cys	Glu	Thr	Leu	Ile
		115					120					125			
Phe	Gly	Gly	Cys	Ile	Gln	Lys	Ile	Cys	Arg	Leu	Lys	Met	Trp	Ser	Asp
130						135					140				
Tyr	Ser	Leu	Glu	Val	Val	Asp	Ala	Val	Ala	Arg	Asn	Gly	Ser	Phe	Thr
145					150				155						160
Gly	Ala	Ala	Gln	Glu	Leu	His	Arg	Val	Pro	Ser	Ala	Ile	Ser	Tyr	Thr
			165					170					175		
Val	Arg	Gln	Leu	Glu	Ala	Trp	Leu	Ala	Val	Pro	Leu	Phe	Glu	Arg	Arg
			180				185						190		
His	Arg	Asp	Val	Glu	Leu	Thr	Pro	Ala	Gly	Ala	Trp	Phe	Leu	Lys	Glu
		195					200					205			
Gly	Arg	Ser	Val	Ile	Lys	Lys	Met	Gln	Ile	Thr	Arg	Glu	Gln	Cys	Gln
210						215				220					
Gln	Ile	Ala	Asn	Gly	Trp	Arg	Gly	His	Leu	Ala	Ile	Ala	Val	Asp	Asn
225				230					235					240	
Ile	Val	Lys	Pro	Glu	Arg	Thr	Arg	Gln	Met	Ile	Val	Asp	Phe	Tyr	Arg
			245						250				255		
His	Phe	Ser	Asp	Val	Glu	Leu	Arg	Val	Ser	Gln	Glu	Val	Phe	Asn	Gly
			260				265					270			
Val	Trp	Asp	Ala	Leu	Ala	Asp	Gly	Arg	Ala	Glu	Met	Ala	Ile	Gly	Ala

275 280 285
 Thr Gln Ala Ile Pro Val Gly Gly Arg Tyr Ala Phe Arg Asp Met Gly
 290 295 300
 Met Leu Ser Trp Thr Cys Val Val Ala Arg Asp His Pro Leu Ala Ala
 305 310 315 320
 Leu Glu Gly Pro Leu Ser Asp Asp Thr Leu Arg Asn Trp Pro Ser Leu
 325 330 335
 Val Leu Glu Asp Thr Ser Arg Ser Leu Pro Lys Arg Ile Thr Trp Leu
 340 345 350
 Leu Asp Asn Gln Arg Arg Val Val Ala Pro Asp Trp Glu Ser Ser Ala
 355 360 365
 Thr Cys Leu Ser Ala Gly Leu Cys Val Gly Met Val Pro Val His Phe
 370 375 380
 Ala Arg Pro Arg Ile Asp Ala Gly Glu Trp Val Ala Leu Thr Leu Glu
 385 390 395 400
 Asn Pro Phe Pro Asp Ala Ala Cys Cys Leu Thr Trp Gln Gln Asn Asp
 405 410 415
 Val Ser Pro Ala Met Ala Trp Leu Leu Asp Tyr Leu Gly Asp Ser Glu
 420 425 430
 Thr Leu Asn Arg Glu Trp Leu Arg Glu Pro Ala
 435 440

<210> 6485

<211> 279

<212> PRT

<213> Enterobacter cloacae

<400> 6485

Phe Cys Ala Gly Leu Trp His Gly Ile Arg Ser Leu Phe Met Lys Ile
 1 5 10 15
 Asn Phe Pro Leu Leu Ala Leu Ala Ile Gly Ala Phe Gly Ile Gly Thr
 20 25 30
 Thr Glu Phe Ser Pro Met Gly Leu Leu Pro Val Ile Ala Arg Gly Val
 35 40 45
 Asp Val Ser Ile Pro Ala Ala Gly Met Leu Ile Ser Ala Tyr Ala Ile
 50 55 60
 Gly Val Met Val Gly Ala Pro Leu Met Thr Leu Leu Ser His Arg
 65 70 75 80
 Ala Arg Arg Asn Ala Leu Ile Phe Leu Met Ala Ile Phe Thr Leu Gly
 85 90 95
 Asn Val Phe Ser Ala Ile Ser Pro Asp Tyr Thr Thr Leu Met Leu Ser
 100 105 110
 Arg Ile Leu Thr Ser Leu Asn His Gly Ala Phe Phe Gly Leu Gly Ser
 115 120 125
 Val Val Ala Ala Ser Val Val Pro Lys His Lys Gln Ala Ser Ala Val
 130 135 140
 Ala Thr Met Phe Met Gly Leu Thr Ile Ala Asn Ile Gly Gly Val Pro
 145 150 155 160
 Ala Ala Thr Trp Leu Gly Glu Ala Ile Gly Trp Arg Met Ser Phe Leu
 165 170 175
 Ala Thr Ala Gly Leu Gly Val Val Ala Met Val Ala Leu Phe Phe Ser
 180 185 190
 Leu Pro Lys Gly Ser Ala Gly Glu Arg Pro Glu Val Arg Lys Glu Leu
 195 200 205
 Ala Val Leu Met Arg Pro Gln Val Leu Ser Ala Leu Leu Thr Thr Val
 210 215 220
 Leu Gly Ala Gly Ala Met Phe Thr Leu Tyr Thr Tyr Ile Ser Pro Val
 225 230 235 240
 Leu His Asp Ile Thr His Ala Thr Pro Leu Phe Val Thr Ala Met Leu
 245 250 255
 Val Leu Ile Gly Val Gly Phe Ser Thr Gly Pro Ile Ser Val Phe Thr

260
Thr Arg Thr Gly Pro Arg Thr
275

265

270

<210> 6486
<211> 109
<212> PRT
<213> Enterobacter cloacae

<400> 6486

Gly Arg Ile Ser Thr Ala Ser Ser Leu Arg Thr Ser Gly Arg Ser Pro
1 5 10 15
Ala Leu Pro Phe Gly Ser Glu Lys Asn Ser Ala Thr Ile Ala Thr Thr
20 25 30
Pro Ser Pro Ala Val Ala Arg Lys Asp Ile Arg Gln Pro Met Ala Ser
35 40 45
Pro Ser Gln Val Ala Ala Gly Thr Pro Pro Ile Leu Ala Met Val Arg
50 55 60
Pro Ile Asn Ile Val Ala Thr Ala Leu Ala Cys Leu Cys Phe Gly Thr
65 70 75 80
Thr Leu Ala Ala Thr Thr Glu Pro Ser Pro Lys Lys Ala Pro Trp Leu
85 90 95
Arg Leu Val Arg Met Arg Glu Ser Ile Arg Val Val
100 105

<210> 6487
<211> 465
<212> PRT
<213> Enterobacter cloacae

<400> 6487

Leu Gln Tyr Lys Gly Val His Val Gln Lys Tyr Met Ile Glu Ala Arg
1 5 10 15
Gln Leu Leu Ala Leu Ala Ile Pro Val Ile Val Ala Gln Val Ala Gln
20 25 30
Thr Ala Met Gly Phe Val Asp Thr Val Met Ala Gly Gly Tyr Ser Ala
35 40 45
Thr Asp Met Ala Ala Val Ala Ile Gly Thr Ser Ile Trp Leu Pro Ala
50 55 60
Ile Leu Phe Gly His Gly Leu Leu Leu Ala Leu Thr Pro Val Ile Ala
65 70 75 80
Gln Leu Asn Gly Ser Gly Arg Arg Asp Arg Val Ala His Gln Val Arg
85 90 95
Gln Gly Phe Trp Leu Ala Gly Phe Val Ser Val Leu Ile Met Ile Val
100 105 110
Leu Trp Asn Ala Gly Tyr Ile Ile Arg Ala Met His Asn Ile Asp Pro
115 120 125
Ala Leu Ala Asp Lys Ala Val Gly Tyr Leu Arg Ala Leu Leu Trp Gly
130 135 140
Ala Pro Gly Tyr Leu Phe Phe Gln Val Ala Arg Asn Gln Cys Glu Gly
145 150 155 160
Leu Ala Lys Thr Lys Pro Gly Met Val Met Gly Phe Ile Gly Leu Leu
165 170 175
Val Asn Ile Pro Val Asn Tyr Ile Phe Ile Tyr Gly His Phe Gly Met
180 185 190
Pro Glu Leu Gly Gly Val Gly Cys Gly Val Ala Thr Ala Ala Val Tyr
195 200 205
Trp Val Met Phe Gly Ser Met Leu Thr Tyr Ile Lys His Ala Arg Ser
210 215 220
Met Arg Asp Ile Arg Asn Asp Thr Thr Phe Ser Thr Pro Asp Trp Ser
225 230 235 240

Met Leu Thr Arg Leu Thr Gln Leu Gly Leu Pro Ile Ala Leu Ala Leu
 245 250 255
 Phe Phe Glu Val Thr Leu Phe Ala Val Val Ala Leu Leu Val Ser Pro
 260 265 270
 Leu Gly Ile Ile Asp Val Ala Gly His Gln Ile Ala Leu Asn Phe Ser
 275 280 285
 Ser Leu Met Phe Val Leu Pro Met Ser Leu Ala Ala Ala Val Thr Ile
 290 295 300
 Arg Val Gly Phe Arg Leu Gly Gln Gly Ser Thr Leu Asp Ala Gln Thr
 305 310 315 320
 Ala Ala Arg Thr Gly Leu Gly Val Gly Val Cys Met Ala Val Cys Thr
 325 330 335
 Ala Leu Phe Thr Val Leu Leu Arg Glu Gln Ile Ala Leu Leu Tyr Asn
 340 345 350
 Asp Asn Pro Glu Val Val Thr Leu Ala Ser His Leu Met Leu Leu Ala
 355 360 365
 Ala Ile Tyr Gln Ile Ser Asp Ser Ile Gln Val Ile Gly Ser Gly Val
 370 375 380
 Leu Arg Gly Tyr Lys Asp Thr Arg Ser Ile Phe Phe Ile Thr Phe Ile
 385 390 395 400
 Ala Tyr Trp Val Leu Gly Leu Pro Ser Gly Tyr Ile Leu Ala Leu Thr
 405 410 415
 Asp Leu Val Val Asp Arg Met Gly Pro Ala Gly Phe Trp Met Gly Phe
 420 425 430
 Ile Ile Gly Leu Thr Ser Ala Ala Ile Met Met Met Leu Arg Met Arg
 435 440 445
 Phe Leu Gln Arg Gln Pro Ser Thr Val Ile Leu Gln Arg Ala Ala Arg
 450 455 460

465

<210> 6488

<211> 344

<212> PRT

<213> Enterobacter cloacae

<400> 6488

His Leu Met Ala Thr Ile Lys Asp Val Ala Lys Arg Ala Asn Val Ser
 1 5 10 15
 Thr Thr Thr Val Ser His Val Ile Asn Lys Thr Arg Phe Val Ala Glu
 20 25 30
 Glu Thr Arg Asn Ala Val Trp Ala Ala Ile Lys Glu Leu His Tyr Ser
 35 40 45
 Pro Ser Ala Val Ala Arg Ser Leu Lys Val Asn His Thr Lys Ser Ile
 50 55 60
 Gly Leu Leu Ala Thr Ser Glu Ala Ala Tyr Phe Ala Glu Ile Ile
 65 70 75 80
 Glu Ala Val Glu Lys Asn Cys Phe Gln Lys Gly Tyr Thr Leu Ile Leu
 85 90 95
 Gly Asn Ala Trp Asn Asn Ile Glu Lys Gln Arg Ala Tyr Leu Ser Met
 100 105 110
 Met Ala Gln Lys Arg Val Asp Gly Leu Leu Val Met Cys Ser Glu Tyr
 115 120 125
 Pro Glu Ser Val Leu Ser Met Leu Glu Glu Tyr Arg His Ile Pro Met
 130 135 140
 Val Val Met Asp Trp Gly Glu Ala Arg Ala Asp Phe Thr Asp Ser Val
 145 150 155 160
 Ile Asp Asn Ala Phe Glu Gly Gly Tyr Met Ala Gly Arg Tyr Leu Val
 165 170 175
 Glu Arg Gly His Arg Glu Ile Gly Val Ile Pro Gly Pro Leu Glu Arg
 180 185 190

Asn Thr Gly Ala Gly Arg Leu Ala Gly Phe Met Lys Ala Met Glu Glu
 195 200 205
 Ala Leu Ile Thr Val Pro Glu Asn Trp Ile Val Gln Gly Asp Phe Glu
 210 215 220
 Pro Glu Ser Gly Tyr Arg Ala Met Gln Gln Ile Val Ser Gln Pro His
 225 230 235 240
 Arg Pro Thr Ala Val Phe Cys Gly Gly Asp Ile Met Ala Met Gly Ala
 245 250 255
 Leu Cys Ala Ala Asp Glu Leu Gly Leu Arg Val Pro Gln Asp Ile Ser
 260 265 270
 Val Ile Gly Tyr Asp Asn Val Arg Asn Ala Arg Phe Phe Thr Pro Ala
 275 280 285
 Leu Thr Thr Ile His Gln Pro Lys Asp Ser Leu Gly Glu Thr Ala Phe
 290 295 300
 Asn Met Leu Leu Asp Arg Ile Val Asn Lys Arg Glu Gln Ser Gln Ser
 305 310 315 320
 Ile Glu Val His Pro Arg Leu Ile Glu Arg Arg Ser Val Ala Asp Gly
 325 330 335
 Pro Phe Arg Asp Tyr Arg Arg
 340

<210> 6489

<211> 430

<212> PRT

<213> Enterobacter cloacae

<400> 6489

Met His Pro Pro Asn Ile Ser Val Ser Gln Ala Ala Leu His Ser Leu
 1 5 10 15
 His Ser Ala Pro Thr Tyr Thr Cys Leu Leu Arg Arg Lys Lys Val Gln
 20 25 30
 Pro Arg Lys Gly Phe Leu Val Trp Leu Gly Gly Leu Ser Val Leu Gly
 35 40 45
 Phe Leu Ala Thr Asp Met Tyr Leu Pro Ala Phe Ala Ala Met Gln Glu
 50 55 60
 Asp Leu Gln Thr Pro Ala Ala Ala Ile Ser Ala Ser Leu Ser Leu Phe
 65 70 75 80
 Leu Ala Gly Phe Ala Phe Ala Gln Leu Leu Trp Gly Pro Leu Ser Asp
 85 90 95
 Arg Phe Gly Arg Lys Pro Val Leu Leu Leu Gly Leu Ala Ile Phe Ala
 100 105 110
 Ala Gly Cys Leu Gly Met Leu Trp Val Arg Asp Ala Ala Trp Leu Leu
 115 120 125
 Ala Leu Arg Phe Ile Gln Ala Val Gly Val Cys Ala Ala Ala Val Thr
 130 135 140
 Trp Gln Ala Leu Val Thr Asp Tyr Tyr Pro Ala Ser Arg Thr Asn Arg
 145 150 155 160
 Ile Phe Ala Thr Ile Met Pro Leu Val Gly Leu Ser Pro Ala Leu Ala
 165 170 175
 Pro Leu Met Gly Ser Trp Ile Leu Ala His Phe Asp Trp Gln Ala Ile
 180 185 190
 Phe Ala Thr Leu Phe Ala Ile Thr Leu Val Leu Met Leu Pro Ala Phe
 195 200 205
 Gly Leu Lys Pro Ala His Lys Lys Glu Thr His Pro Asp Ala Lys Pro
 210 215 220
 Ile Thr Phe Thr Ser Leu Leu Arg Ser Lys Ala Tyr Arg Gly Asn Val
 225 230 235 240
 Leu Ile Tyr Ala Ala Cys Ser Ala Ser Phe Phe Ala Trp Leu Thr Gly
 245 250 255
 Ser Pro Phe Ile Leu His Asp Met Gly Tyr Ser Pro Ala Ala Ile Gly
 260 265 270

Leu Ser Tyr Val Pro Gln Thr Ile Ala Phe Leu Val Gly Gly Tyr Gly
 275 280 285
 Cys Arg Ala Ala Leu Gln Lys Trp Glu Gly Gln Gln Met Leu Pro Trp
 290 295 300
 Leu Leu Val Leu Tyr Ala Leu Ser Val Ile Ala Thr Trp Ala Val Gly
 305 310 315 320
 Phe Ile Pro Gly Ala Gly Leu Ala Glu Ile Leu Ile Pro Phe Cys Val
 325 330 335
 Met Ala Ile Ala Asn Gly Ala Ile Tyr Pro Ile Val Val Ala Gln Ala
 340 345 350
 Leu Arg Pro Phe Pro Gln Ala Thr Gly Arg Ala Ala Leu Gln Asn
 355 360 365
 Thr Leu Gln Leu Gly Leu Cys Phe Leu Ala Ser Leu Val Val Ser Ala
 370 375 380
 Leu Ile Ala Thr Pro Leu Leu Thr Thr Thr Ser Val Met Leu Ile Thr
 385 390 395 400
 Val Ala Leu Ala Gly Leu Gly Tyr Arg Met Gln Ser Ser Ala Leu Arg
 405 410 415
 Glu Gln Asn Asp Asn Ala Gln Thr Glu Thr Ser His Ala
 420 425 430

<210> 6490

<211> 391

<212> PRT

<213> Enterobacter cloacae

<400> 6490

Ser Gln Gln Gly Asp Gly Glu Ala Met Ser Ser Ser Cys Ile Glu Glu
 1 5 10 15
 Val Ser Val Pro Asp Asp Asn Trp Ser Arg Ile Val Ser Glu Leu Leu
 20 25 30
 Gly Arg Ala Gly Ile Thr Ile Asn Gly Ser Ser Pro Ser Asp Pro Gln
 35 40 45
 Ile Lys His Pro Asp Phe Phe Lys Arg Val Leu Gln Glu Gly Ser Leu
 50 55 60
 Gly Leu Gly Glu Ser Tyr Met Asp Gly Trp Trp Glu Cys Glu Arg Leu
 65 70 75 80
 Asp Met Phe Phe Ser Ser Val Leu Arg Ala Gly Leu Glu Lys Gln Leu
 85 90 95
 Pro Arg His Phe Lys Asp Thr Leu Arg Ile Ala Ser Ala Arg Leu Phe
 100 105 110
 Asn Leu Gln Ser Lys Lys Arg Ala Trp Ile Val Gly Lys Glu His Tyr
 115 120 125
 Asp Leu Gly Asn Asp Leu Phe Ser Arg Met Leu Asp Pro Leu Met Gln
 130 135 140
 Tyr Ser Cys Gly Tyr Trp Lys Lys Ala Thr Thr Leu Glu Glu Ala Gln
 145 150 155 160
 Gln Asp Lys Leu Gln Leu Ile Cys Asp Lys Leu Gln Leu Gln Pro Gly
 165 170 175
 Met Arg Val Leu Asp Ile Gly Cys Gly Trp Gly Gly Leu Ala Trp Phe
 180 185 190
 Met Ala Lys Asn Tyr Gly Val Ser Val Val Gly Val Thr Ile Ser Ala
 195 200 205
 Glu Gln Gln Lys Met Ala Gln Glu Arg Cys Leu Gly Leu Asp Val Asp
 210 215 220
 Ile Arg Leu Gln Asp Tyr Arg Asp Leu Asn Glu Gln Phe Asp Arg Ile
 225 230 235 240
 Val Ser Val Gly Met Phe Glu His Val Gly Pro Lys Asn Tyr Lys Thr
 245 250 255
 Tyr Phe Glu Val Ala Asp Arg Asn Leu Lys Pro Asp Gly Ile Phe Leu
 260 265 270

Leu His Thr Ile Gly Ser Lys Arg Thr Asp Asn Asn Val Asp Pro Trp
 275 280 285
 Ile Asn Lys Tyr Ile Phe Pro Asn Gly Cys Leu Pro Ser Val Arg Gln
 290 295 300
 Ile Ala Asn Ala Ser Glu Pro His Phe Ile Val Glu Asp Trp His Asn
 305 310 315 320
 Phe Gly Ala Asp Tyr Asp Thr Thr Leu Met Ala Trp His Glu Arg Phe
 325 330 335
 Gln Ala Ala Trp Pro Glu Ile Ala Asp Asn Tyr Ser Glu Arg Phe Lys
 340 345 350
 Arg Met Phe Ser Tyr Tyr Leu Asn Ala Cys Ala Gly Ala Phe Arg Ala
 355 360 365
 Arg Asp Ile Gln Leu Trp Gln Val Val Phe Ser Arg Gly Ile Glu His
 370 375 380
 Gly Leu Arg Val Ala Arg
 385 390

<210> 6491

<211> 364

<212> PRT

<213> Enterobacter cloacae

<400> 6491

Ala Arg Trp Ala Ala Pro Ser Ala Ala Tyr Ser Ala Trp Trp Ala Ala
 1 5 10 15
 Ser Ser Ala Val Ser Ser Ala Pro Lys Arg Glu Ala Arg Cys Thr His
 20 25 30
 Gly Pro His Cys Arg Ala Ile Phe Leu Phe Gln Pro Arg Ile Ile Met
 35 40 45
 Phe Ser Leu Phe Gln Tyr Lys Lys Gln Gly Lys Thr Pro Val Ile Arg
 50 55 60
 Gln His Glu Phe Thr Glu Cys Gly Leu Ala Cys Leu Ala Met Val Leu
 65 70 75 80
 Gly His Tyr Asp His His Val Ser Val Ser Gln Leu Arg Arg Glu Ile
 85 90 95
 Ser Val Ser Ala Asp Ala Gly Thr Ser Met Ala Glu Leu Met Thr Leu
 100 105 110
 Ala Ser Asp Lys Asn Met Ser Gly Arg Val Leu Lys Gly Glu Ile Thr
 115 120 125
 Glu Ile Glu Thr Ser Glu Leu Pro Leu Ile Ala Phe Trp Arg Gly Asn
 130 135 140
 His Phe Val Val Ile Val Lys Ile Asp Ser Arg Ser Val Thr Val His
 145 150 155 160
 Asp Pro Ala Ser Gly Val Arg Arg Tyr Arg Leu Lys Glu Ala Glu Lys
 165 170 175
 Leu Phe Ser Gly Tyr Val Leu Glu Leu Lys Pro Thr Pro Cys Phe Glu
 180 185 190
 Lys Lys Ser Pro Asp Glu Thr Leu Thr Leu Gly Arg Leu Ala Asn Lys
 195 200 205
 Ser Pro Ser Leu Phe Gln Arg Gln Leu Leu Leu Phe Val Leu Cys Ile
 210 215 220
 Phe Thr Leu Ile Thr Met Leu Ala Ser Pro Thr Tyr Val Gln Leu Ile
 225 230 235 240
 Met Asp Glu Ala Ile Ser Arg Ser Asp Ser Asp Leu Val Ile Leu Leu
 245 250 255
 Thr Ala Ile Phe Ala Ile Val Phe Ile Phe Glu Val Ile Gly Lys Phe
 260 265 270
 Leu Lys Gln Leu Leu Glu Ile Leu Met Arg Asn Ile Ala Tyr Asp Asp
 275 280 285
 Leu Ser Gln Ser Val Arg His Tyr Met Leu Arg Thr Gln Thr Ser Trp
 290 295 300

Phe Arg Ser Arg Pro Pro Gly Ile Val Leu Ala Ile Glu Lys Ser Leu
 305 310 315 320
 His Ala Cys Ala Glu Phe Ile Ser Asn Gly Tyr Val Gln Ile Leu Phe
 325 330 335
 Ser Ser Leu Ile Ala Val Thr Ser Leu Leu Phe Met Leu Leu Tyr Asn
 340 345 350
 Val Gln Ile Ala Leu Ala Asp Asn Ala Ala Asp Gly
 355 360

<210> 6492

<211> 208

<212> PRT

<213> Enterobacter cloacae

<400> 6492

Met Asn Lys Leu Asn Ala Ile Val Leu Gly Ser Leu Leu Ser Val Ser
 1 5 10 15
 Ala Leu Ser Ala Val Asn Ala Ala Glu Thr Thr Ala Ser Ala Thr Trp
 20 25 30
 Gln Ala Thr Ala Thr Lys Asp Ser Glu Ser Asp Leu Val Val Thr Pro
 35 40 45
 Thr Arg Ala Leu Asn Phe Val Tyr Ser Ala Asn Thr Lys Ser Phe Asn
 50 55 60
 Thr Asp Thr Gly Leu Phe Asp Val Ala Ile Arg Gly Asp His Ser Thr
 65 70 75 80
 Ala Thr Ser Phe Lys Leu Glu Ala Ile Leu Asp Asp Ser Asn Asn Thr
 85 90 95
 Leu Phe Ser Val Gly Gly Glu Ala Thr Lys Leu Lys Val Gly Ala Arg
 100 105 110
 Trp Gly Gly Asn Asp Leu Gly Ser Ile Gly Gly Thr Val Gly Ala Lys
 115 120 125
 Ser Thr Ala Trp Thr Thr Leu Val Asp Ser Ser Ser Asn Thr Gly Val
 130 135 140
 Ser Ser Gly Leu Trp Asn Leu Thr Thr Ser Ala Gly Ala Ala Ala Asp
 145 150 155 160
 Thr Glu Ile Thr Gly Gln Asp Lys Phe Val Phe Tyr Val Asp Ser Ala
 165 170 175
 Gln Asp Asn Ala Gly Thr Ala Lys Glu Phe Lys Asp Leu Thr Asn Ser
 180 185 190
 Leu Trp Glu Gly Thr Val Ser Val Ala Phe Arg Ala Thr Trp Gly
 195 200 205

<210> 6493

<211> 229

<212> PRT

<213> Enterobacter cloacae

<400> 6493

Gly Asn Ser Met Phe Asn Leu Lys Ser Ala Phe Leu Phe Leu Leu Phe
 1 5 10 15
 Ile Ser Ser Ser Ala Leu Ala Ile Asn Val Gly Lys Val Thr Thr Ile
 20 25 30
 Ile Ser Ala Asp Ala Asp Ser Thr Ala Lys Glu Ile Lys Asn Glu Ala
 35 40 45
 Asp Ser Val Arg Ile Val Ser Val Arg Ala Gln Arg Ile Ser Ser Pro
 50 55 60
 Met Asp Glu Gly Ile Val Ile Asn Pro Glu Lys Val Asp Glu Leu Leu
 65 70 75 80
 Leu Thr Pro Thr Arg Met Val Met Pro Ala Gly Thr Ser Asn Ile Val
 85 90 95
 Lys Phe Tyr Tyr His Gly Asn Ala Asp Asn Lys Glu Arg Tyr Tyr Arg

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<210> 6494
<211> 867
<212> PRT
<213> Enterobacter cloacae
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<400> 6494															
Gly 1	Cys	Met	Val	Lys 5	Asn	Lys	Leu	Val	Leu 10	Pro	Val	Met	Met	Ala 15	Cys
Ala	Ser	Gly	Thr 20	Leu	Pro	Ala	Leu	Ala 25	His	Ala	Ala	Ser	Ser	Ser	Val
Val	Ile	Ala 35	Asn	Tyr	Arg	Phe	Pro 40	Asp	Ser	Leu	Tyr	Ala 45	Leu	Leu	Glu
Gln	Gly 50	Ile	Lys	Ile	Pro	Val 55	Tyr	Leu	Val	Asn	Thr 60	Arg	Pro	His	Ser
Ala 65	Gln	Gln	Gly	Asn 70	His	Glu	Gly	Thr	Ala	Ser 75	Glu	Tyr	Val	Arg	Ile 80
Gly	Asp	Val	Thr	Leu 85	Phe	Ala	Lys	Asp	Leu 90	Lys	Leu	Gly	Leu	Arg	Asp
Val	Gln	Val	Gln 100	Glu	Ser	Asp	Asn	Gly 105	Ile	Arg	Leu	Ser	Lys	Glu	Met
Arg	Ala	Leu	Leu 115	Gln	Ser	Ile	Asn 120	Asp	Lys	Gln	Phe	Asp 125	Asp	Gln	Met
Arg	Ile 130	Pro	Val	Ser	Ala	Gly 135	Ser	Ala	Phe	Glu	Leu	Asp 140	Gln	Lys	Lys
Met 145	Arg	Leu	Leu	Leu	Asn 150	Leu	Ser	Gln	Ser	Asp 155	Tyr	Gly	Val	Asn	Ile 160
Arg	Leu	Arg	Glu	Val 165	Asp	Ile	Asp	Ala	Pro	Glu	Ser	Asp	Asp	Leu	Ser
Gly	Thr	Phe	Ser 180	Tyr	Asn	Leu	Gly	Ala 185	Tyr	His	Thr	Glu	Ser	Gly	Tyr
Gly	Asp	Ser 195	Trp	Ser	Ser	Gly	Tyr 200	Leu	Asn	Ala	Arg	Asn	Trp	Ile	Ser
Met	Gly 210	Val	Asp	His	Val	Leu 215	Ile	Asp	Gly	Ser	Gly	Tyr	Val	Asn	Glu
Ser 225	Ser	Ser	Asp	Thr	Gln 230	Met	Asn	Ala	Val	Met 235	Trp	Glu	Arg	Asp	Tyr
Gln	Gly	Met	Arg	Tyr 245	Ala	Ala	Gly	Met	Leu	Asn	Gly	Trp	Ala	Met	Gln
Ser	Leu	Ala	Ser 260	Val	Ser	Gly	Ile	Ser 265	Gly	Gly	Glu	Val	Tyr	Gly	Val
Ser	Met	Gly 275	Asn	Gln	Ala	Asn	Ser 280	Arg	Lys	Arg	Asp	Asn	Thr	Leu	Ser
Leu	Thr	Pro	Val	Val	Val	Tyr	Phe	Pro	Thr	Ala	Gly	Glu	Ala	Arg	Ile

	290					295					300					
Arg 305	Arg	Asp	Gly	Gln	Leu	Ile	Gly	Ile	Gln	Arg	Phe	Asp	Val	Gly	Asn	
His 310	Glu	Ile	Asp	Thr	Ser	Ser	Leu	Pro	Tyr	Gly	Ile	Tyr	Ser	Ile	Glu	
Val 325	Glu	Val	Val	Ser	Gly	Ser	Arg	Thr	Val	Ser	Arg	Asn	Met	Tyr	Thr	
Val 340	Asn	Lys	Pro	Phe	Ser	Ser	Asn	Val	Ser	Glu	Thr	Leu	Arg	Trp	Gln	
Met 355	Trp	Gly	Gly	Met	Tyr	Ser	Arg	Asp	Lys	Ser	Val	Val	Asn	Tyr	Lys	
Lys 370	Tyr	Ala	Lys	Arg	Lys	Asn	Glu	Gln	Asp	Asn	Thr	Tyr	Asn	Tyr	Asp	
Tyr 385	Asp	Thr	Lys	His	Lys	Asp	Thr	Met	Ser	Leu	Val	Gly	Ala	Ser	Phe	
Ser 400	Lys	Arg	Ser	Gly	Met	Val	Asp	Trp	Asn	Ala	Ser	Thr	Tyr	Met	Met	
Arg 420	Glu	His	Ile	Val	Ser	Glu	Leu	Trp	Ala	Ser	Leu	Asn	Leu	Thr	Gly	
Tyr 435	Phe	Ser	Val	Asn	Thr	Gln	Thr	Met	Ala	Ala	Ser	Asp	Gly	Thr	Tyr	
Arg 450	Ala	Asn	Tyr	Gly	Ala	Asn	Leu	Ser	Leu	Pro	Trp	Gln	Ile	Gly	Ser	
Val 465	Trp	Tyr	Ser	His	Glu	Gln	Leu	Ser	Ser	Gly	Lys	Phe	Leu	Asp	Ile	
Tyr 480	Glu	Ser	Lys	Gly	Asn	Thr	Trp	Gly	Ala	Ser	Phe	Ser	Leu	Pro	Ser	
Phe 500	Gly	Leu	Pro	Ser	Ala	Gly	Asn	Leu	Ser	Leu	Met	Arg	Gln	Glu	Asp	
Asp 515	Leu	Tyr	Arg	Tyr	Lys	Arg	Tyr	Gln	Leu	Asp	Tyr	Ser	Gln	Gly	Leu	
Tyr 530	Ala	Gly	Arg	Tyr	Gly	Thr	Ala	Arg	Leu	Arg	Val	Gly	Met	Ser	Arg	
Asn 545	Lys	Tyr	Asp	Gly	Tyr	Tyr	Glu	Glu	Lys	Asp	Arg	Tyr	Val	Met	Leu	
Asp 565	Phe	Ala	Ile	Pro	Leu	Gly	Asn	Thr	Val	Ser	Val	Gly	Val	Ser	His	
Asn 580	Arg	Asp	Thr	Gly	Thr	Ala	Leu	Asn	Val	Ser	Ala	Ser	Arg	Gln	Phe	
Glu 595	Gly	Asp	Tyr	Leu	Lys	Ser	Ala	Thr	Ala	Asn	Val	Ser	Lys	Ala	Phe	
Asn 610	Ser	Arg	Gln	Asp	Arg	Ser	Val	Ser	Gly	Gly	Gly	Ser	Val	Asn	Phe	
Asp 625	Thr	Pro	Trp	Asn	Ser	Asn	Ile	Leu	Ser	Val	Gln	Ser	Gly	Met	Ser	
Lys 645	Gly	Trp	Asn	Ser	Thr	Leu	Thr	Ser	Asp	Gly	Ser	Val	Gly	Trp	Ser	
Lys 660	Glu	Ala	Ile	Ala	Ala	Gly	Lys	Gly	Thr	Glu	Ser	Ala	Gly	Val	Ile	
Val 675	Ser	Thr	Gly	Leu	Lys	Ser	Asp	Glu	Ala	Leu	Thr	Leu	Lys	Leu	Asn	
Gly 690	Arg	Ala	Glu	Arg	Ile	Lys	Gly	Asp	Lys	Thr	Trp	Leu	Ser	Leu	Pro	
Ala 705	Tyr	Gln	Ala	Tyr	Asp	Leu	Glu	Val	Met	Asn	Ser	Glu	Thr	Gly	Thr	
Glu 725	Ser	Tyr	Glu	Ile	Gly	Ala	Asn	Ala	Arg	Arg	His	Ile	Thr	Val	Tyr	
Pro 740	Gly	Asn	Thr	Val	Val	Met	Lys	Pro	Gln	Val	Lys	Lys	Ile	Val	Thr	
Leu 755	Phe	Gly	Arg	Leu	Val	Asp	Ala	Asn	Gly	Ala	Pro	Ile	Gly	Ala	Met	

Gln Ile Lys Asn His Val Gly Leu Thr Arg Thr Glu Asn Asp Gly Arg
 785 790 795 800
 Phe Val Ile Asp Val Asp Lys Asn Asn Pro Val Leu Ser Ile Ala Thr
 805 810 815
 Pro Asp Asp Ser Val Cys Glu Val Arg Leu Asp Ile Glu Ser Asn Arg
 820 825 830
 Gly Ala Leu Trp Leu Gly Asp Ile Ser Cys Asp Lys Gly Asp Phe Val
 835 840 845
 Trp Gln Glu Ala Lys Gly Thr Gln Glu Arg Asp Asp Glu Lys Asp Ile
 850 855 860
 Arg Ser
 865

<210> 6495

<211> 276

<212> PRT

<213> Enterobacter cloacae

<400> 6495

Ala Met Arg Gly Ser Phe Ala Leu Val Val Lys Ile Thr Met Leu Tyr
 1 5 10 15
 Glu Val Asp Thr Gly Met Ile Met Ile Asn Gly Glu Glu Glu Ser Ser
 20 25 30
 Ile Lys Leu Ser Asn Gln Ala Gly Arg Leu Leu Tyr Glu Leu Ile Ile
 35 40 45
 Asn Asn Gly Lys Thr Leu Asp Arg Asp Asp Leu Ile Lys Lys Val Trp
 50 55 60
 Glu Asp His Gly Phe Ser Gly Ser Ser Val Ser Leu Asn Val Ala Ile
 65 70 75 80
 Ser Glu Ile Arg Lys Ala Phe Arg Thr Leu Gly Cys Asp Pro Leu Leu
 85 90 95
 Ile Lys Thr Ile Arg Gly Lys Gly Phe Ser Leu Ala Ala His Ile Glu
 100 105 110
 His His Thr Val Arg Pro Pro Val Val Ser Thr Leu Ser Glu Gln Ser
 115 120 125
 Ala Ser Glu Ser Phe Asp Thr Leu Ala His Lys Lys Asp Ala Asp Pro
 130 135 140
 Pro Lys Gln Leu Ile Ser Leu His Arg Leu Phe Ile Ser Leu Cys Thr
 145 150 155 160
 Leu Leu Leu Ile Thr Val Ile Gly Thr Ala Val Leu Leu Leu His Gln
 165 170 175
 Arg Asp Ser Tyr Ala Glu Ser Leu Lys Asp Ser Asp Met His Leu Leu
 180 185 190
 Gly Lys Val Asp Arg Cys Thr Val Tyr Leu Ile Asp Lys Asn Met Tyr
 195 200 205
 Gln Pro Arg Gln His Tyr Phe Asn His Val Lys Glu Val Ile Ala Ser
 210 215 220
 Gln His Ile Asp Cys Gln His Gln Val Ala Asp Ala Tyr Tyr Ser Arg
 225 230 235 240
 Phe Lys Lys Ser Gln Ile Glu Asn Tyr Phe Leu Ala Ile Cys Tyr Gln
 245 250 255
 Gln Asp Ser Ile Asp Asp Tyr Lys Asn Cys Ile Ser Tyr Arg Ser Leu
 260 265 270
 Thr Gly Ser
 275

<210> 6496

<211> 580

<212> PRT

<213> Enterobacter cloacae

<400> 6496

Val	Ser	Pro	Arg	Arg	Thr	Thr	Ala	Ser	Ala	Lys	Cys	Ala	Trp	Thr	Ser
1				5					10					15	
Ser	Leu	Thr	Ala	Val	Arg	Cys	Gly	Leu	Gly	Thr	Ser	Pro	Ala	Thr	Lys
			20					25					30		
Ala	Ile	Ser	Ser	Gly	Arg	Lys	Gln	Lys	Glu	Arg	Arg	Asn	Val	Thr	Met
		35					40					45			
Lys	Lys	Ile	Phe	Ala	Leu	Asn	Leu	Leu	Leu	Met	Ser	Ala	Ala	Ala	Gln
	50					55					60				
Ala	Gln	Glu	Leu	Pro	Tyr	Phe	Ala	Ile	Asn	Asn	Pro	Asp	Asn	Asn	Gly
65					70					75					80
Thr	Gly	Asn	Ser	Ala	Gly	Leu	Phe	Ser	Leu	Asn	Ser	Thr	Ser	Thr	Ala
				85					90					95	
Phe	Leu	His	Gly	Ser	Arg	Glu	Trp	Pro	Thr	Leu	Ser	Ala	Lys	Thr	Asn
			100					105					110		
Asn	Gly	Ile	Ala	Thr	Tyr	Ile	Pro	Asp	Asn	Ser	Phe	Asn	Gly	Pro	Ala
		115					120					125			
Gly	Ser	Ala	Leu	Thr	Ile	Asp	Phe	Ser	Val	Thr	Gly	Ser	Ser	Ala	Ser
	130					135					140				
Pro	Phe	Phe	Lys	Gly	Thr	Ala	Cys	Ser	Ser	Ser	Cys	Gly	Asn	Thr	Gly
145					150					155					160
Tyr	Thr	Pro	Thr	Thr	Ser	Tyr	Thr	Asp	Thr	Ser	Met	Val	Val	Lys	Pro
				165					170					175	
Pro	Val	Met	Glu	Pro	Gly	Thr	Ser	Tyr	Gly	Arg	Trp	Val	Leu	Gly	Asp
			180					185					190		
Pro	Phe	Phe	Asn	Tyr	Leu	Leu	Asn	Ala	Ala	Pro	Gly	Asp	Glu	Val	Thr
		195					200					205			
Ile	Thr	Ser	Thr	Pro	Gln	Ile	Ser	Ser	Ile	Asn	Lys	Val	Thr	Thr	Thr
	210					215					220				
Asn	Thr	Leu	His	Lys	Val	Gly	Thr	Leu	Thr	Met	Thr	Asn	Ser	Arg	Ala
225					230					235					240
Leu	Asn	Leu	Gly	Ile	Asp	Pro	Ile	Ser	Gly	Glu	Val	Thr	Ile	Val	Asp
				245					250					255	
Gly	Ser	Thr	Gly	Ala	Thr	Cys	Thr	Lys	Tyr	Thr	Arg	Asn	Thr	Val	Ser
			260					265					270		
Gly	Val	Leu	Cys	Asp	Leu	Leu	Glu	Tyr	Thr	Phe	Val	Gly	Glu	Asp	Ile
		275					280					285			
Ser	Gly	Tyr	Asn	Gly	Gly	Leu	Ala	Leu	Thr	Ser	Ser	Arg	Val	Asn	Ser
	290					295					300				
Val	Leu	Gln	Ser	His	Met	Ser	Gly	Gly	Thr	Gly	Leu	Ala	Ala	Glu	Leu
305					310					315					320
Thr	Phe	Asp	Glu	Asn	Thr	Trp	Tyr	Ser	Ile	Ser	Gly	Gly	Ile	Leu	Ser
				325					330					335	
Asp	Thr	Arg	Val	Leu	Ala	Asn	Thr	Phe	Leu	Ala	Ala	Pro	Gln	Lys	Asn
			340					345					350		
Gly	Gly	Lys	Ala	Tyr	Leu	Lys	Ile	Phe	Leu	Pro	Lys	Ala	Leu	Ile	Leu
		355					360					365			
Ser	Val	Ala	Gln	Ala	Gly	Asp	Gly	Ser	Asn	Ile	Gly	Asn	Ile	Val	Ser
	370					375					380				
Leu	Cys	Leu	Thr	Pro	Gly	Asn	Ser	Ser	Leu	Ala	Ala	Asp	Phe	Cys	Phe
385					390					395					400
Gln	Pro	Gly	Gly	Gly	Leu	Val	Ile	Asn	Pro	Ile	Glu	Pro	Gly	Leu	Glu
				405					410					415	
Ile	Val	Pro	Asp	Asn	Pro	Asp	Tyr	Thr	Leu	Asp	Pro	Asp	Gly	Leu	Gly
			420					425					430		
Gly	Ser	Gly	Lys	Gly	Ile	Ile	Gly	Glu	Ala	Pro	Ile	Glu	Ile	Pro	Tyr
		435					440					445			
Thr	Ile	Thr	Tyr	Ser	Gly	Ala	Gln	Lys	Asp	Ala	Ala	Ile	Ala	Val	Thr
					450		455				460				
Val	Lys	Val	Thr	Gly	Pro	Thr	Gln	Ser	Leu	Asn	Gly	Val	Asp	Tyr	Cys
465					470					475					480

Ala Phe Ser Gly Asn Gly Phe Thr Val Pro Ile Pro Gly Asn Val Leu
 485 490 495
 Val Gly Lys Ser Gln Thr Leu Met Ala His Asn Cys Lys Gly Glu Val
 500 505 510
 Leu Ser Ile Pro Ala Pro Ala Thr His Ala Glu Glu Trp Asp Lys Met
 515 520 525
 Ser Ser Gly Val Thr Asp Met Trp Leu Trp Lys Thr Pro Leu Ile Leu
 530 535 540
 Gln Phe Val Met Asp Asn Pro Val Ser Lys Thr Thr Tyr Asp Gly Asn
 545 550 555 560
 Ser Trp Phe Gly Glu Val Thr Ala Gln Gly Arg Ile Asp Val Ser Ala
 565 570 575
 Ser Trp Asn
 580

<210> 6497

<211> 220

<212> PRT

<213> Enterobacter cloacae

<400> 6497

Ser Thr Met Thr Gly Lys Phe Leu Ala Ile Phe Ala Ile Asn Cys Phe
 1 5 10 15
 Ile Ser Thr Gly Ala Asn Ala Leu Ile Ile Glu Ser Leu Asn Ile Asp
 20 25 30
 Phe Leu Pro Glu Arg Glu Val Val Phe Gln Pro Ile Lys Asn Asp Thr
 35 40 45
 Ser Glu Arg Gln Asn Tyr Thr Val Ser Leu Ile Gln Val Asp Val Pro
 50 55 60
 Lys Glu Lys Gly Lys Glu Thr Glu Ile Lys Asp Gly Glu Val Met Tyr
 65 70 75 80
 Ser Pro Lys Gln Leu Thr Leu Gly Ser Gly Glu Arg Ala Gly Phe Lys
 85 90 95
 Phe Tyr Tyr Thr Gly Pro His Asp Asn Lys Glu Arg Tyr Tyr Arg Val
 100 105 110
 Lys Phe Thr Glu Thr Pro Leu Gln Ala Lys Val Ile Thr Arg Lys Gly
 115 120 125
 Gln Arg Ile Gln Ser Asp Val Val Val Ser Leu Glu Ala Ile Leu Ile
 130 135 140
 Val Arg Pro Trp Thr Arg His Phe Asp Tyr Ala Phe Ser Asn Gly Val
 145 150 155 160
 Val Ser Asn Thr Gly Asn Thr Tyr Phe Lys Tyr Val Ser Ser Val Gly
 165 170 175
 Cys Ser Thr Gln Tyr Asn Asn Ser Lys Tyr Ile Pro Pro Gly Gln Arg
 180 185 190
 Leu Glu Ile Asp Asn Ala Gly Gln Ala Ala Arg Arg Met Ile Ile Tyr
 195 200 205
 Gly Asn Lys Ile Ile Pro Leu Thr Thr Cys Pro
 210 215 220

<210> 6498

<211> 357

<212> PRT

<213> Enterobacter cloacae

<400> 6498

Glu Glu Pro Met Met Lys Asn Thr Thr Tyr Leu Thr Asp Glu Asp Arg
 1 5 10 15
 Trp Gln Ala Val Leu Ala Arg Asp Pro Arg Ala Asp Asn Gln Phe Val
 20 25 30
 Phe Ala Val Gln Thr Thr Gly Ile Tyr Cys Arg Pro Ser Cys Arg Ala

```

      35              40              45
Arg  His  Ala  Leu  Arg  Lys  Asn  Val  Cys  Phe  Tyr  Pro  Asp  Ala  His  Gln
 50                    55              60
Ala  Ala  Gln  Ala  Gly  Phe  Arg  Pro  Cys  Lys  Arg  Cys  Arg  Pro  Asp  Gln
65                    70              75              80
Gly  Asp  Pro  Met  Ala  Gln  Lys  Lys  Ala  Asn  Ile  Ala  Leu  Ala  Cys  Arg
      85              90              95
Leu  Leu  Glu  Gln  Asp  Ala  Ser  Leu  Asn  Leu  Glu  Ala  Leu  Ala  Gln  Gln
      100             105             110
Val  Ala  Met  Ser  Pro  Phe  His  Phe  His  Arg  Leu  Phe  Lys  Ser  Val  Thr
      115             120             125
Gly  Met  Thr  Pro  Lys  Ala  Trp  Gln  Gln  Ala  Ala  Arg  Glu  Gln  Arg  Leu
      130             135             140
Arg  Ser  Leu  Leu  Ala  Gln  Gly  Gly  Lys  Ile  Thr  Asp  Ala  Val  Leu  Ala
145                    150             155             160
Ala  Gly  Phe  Pro  Asp  Gly  Ser  Ser  Tyr  Tyr  Arg  Lys  Ala  Asn  Gly  Ala
      165             170             175
Leu  Gly  Met  Thr  Ala  Lys  Gln  Tyr  Arg  Asn  Gly  Glu  Ala  Ala  Val  Arg
      180             185             190
Tyr  Ala  Ile  Ser  Asp  Cys  Ser  Leu  Gly  Arg  Cys  Leu  Val  Ala  Glu  Ser
      195             200             205
Glu  Arg  Gly  Ile  Cys  Ala  Ile  Leu  Leu  Gly  Asp  Asp  Asp  Ala  Gly  Leu
      210             215             220
Thr  Ala  Glu  Leu  Leu  Ser  Leu  Phe  Pro  Leu  Ala  Val  Arg  Glu  Pro  Met
225                    230             235             240
Glu  Gly  Ala  Phe  Ala  Gly  Arg  Val  Arg  Gln  Val  Ile  Ala  Ser  Val  Asp
      245             250             255
Ser  Arg  Ala  Thr  Ser  Leu  Thr  Leu  Pro  Leu  Asp  Ile  Arg  Gly  Thr  Ala
      260             265             270
Phe  Gln  Gln  Val  Trp  Gln  Ala  Leu  Arg  Ala  Ile  Pro  Cys  Gly  Glu
      275             280             285
Thr  Ala  Ser  Tyr  Gln  Gln  Val  Ala  Lys  Ala  Ile  Gly  Lys  Pro  Asn  Ala
      290             295             300
Val  Arg  Ala  Val  Ala  Gly  Ala  Cys  Gly  Ala  Asn  Lys  Leu  Ala  Ile  Val
305                    310             315             320
Ile  Pro  Cys  His  Arg  Val  Val  Arg  Asn  Asp  Gly  Ala  Leu  Ser  Gly  Tyr
      325             330             335
Arg  Trp  Gly  Ala  Ala  Arg  Lys  Val  Leu  Leu  Lys  Arg  Glu  Ala  Asn
      340             345             350
Asn  Pro  Glu  Glu
      355

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<210> 6499

<211> 556

<212> PRT

<213> Enterobacter cloacae

<400> 6499

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Phe  Phe  Leu  Ser  Gly  Leu  Leu  Cys  Met  Gln  Leu  Leu  Leu  Leu  Val  Trp
1      5      10      15
Arg  Gln  Tyr  Arg  Trp  Pro  Phe  Ile  Ala  Val  Met  Ala  Leu  Ser  Leu  Ala
      20      25      30
Ser  Ala  Ala  Leu  Gly  Ile  Gly  Leu  Ile  Ala  Phe  Ile  Asn  Val  Arg  Leu
      35      40      45
Ile  Glu  Met  Val  Asp  Thr  Ser  Leu  Ser  Val  Leu  Pro  Glu  Phe  Leu  Gly
      50      55      60
Leu  Leu  Leu  Leu  Leu  Met  Ala  Val  Thr  Leu  Gly  Ser  Gln  Leu  Ala  Leu
65      70      75      80
Thr  Ala  Leu  Gly  His  His  Phe  Val  Phe  Arg  Leu  Arg  Ser  Glu  Phe  Ile
      85      90      95
Lys  Arg  Ile  Leu  Asp  Thr  Gln  Val  Glu  Arg  Ile  Glu  Gln  Leu  Gly  Ser

```

		100					105				110			
Ala	Ser	Leu	Ala	Gly	Leu	Thr	Ser	Asp	Val	Arg	Ala	Ile	Thr	Ile
		115					120				125			
Ala	Phe	Val	Arg	Leu	Pro	Glu	Leu	Val	Gln	Gly	Ile	Ile	Leu	Thr
		130					135				140			
Gly	Ser	Ala	Ala	Tyr	Leu	Ala	Trp	Leu	Ser	Ser	Lys	Met	Leu	Ala
		145					150				155			160
Thr	Ala	Leu	Trp	Ile	Val	Ile	Thr	Ile	Trp	Gly	Gly	Phe	Leu	Leu
				165					170					175
Ser	Arg	Val	Tyr	Lys	His	Met	Ala	Val	Leu	Arg	Glu	Thr	Glu	Asp
			180						185				190	Lys
Leu	Tyr	Asn	Asp	Tyr	Gln	Thr	Val	Leu	Glu	Gly	Arg	Lys	Glu	Leu
		195					200					205		Thr
Leu	Asn	Arg	Glu	Arg	Ala	Glu	His	Ile	Phe	Asn	His	Leu	Tyr	Ile
		210					215				220			Pro
Asp	Ala	His	Glu	Tyr	Arg	His	His	Ile	Ile	Arg	Ala	Asp	Thr	Phe
		225					230				235			His
Leu	Ser	Ala	Val	Asn	Trp	Ser	Asn	Ile	Met	Met	Leu	Gly	Ala	Ile
				245					250					Gly
Leu	Val	Phe	Trp	Met	Ala	Asn	Ser	Leu	Gly	Trp	Ala	Asp	Thr	Asn
			260						265					Val
Ala	Ala	Thr	Tyr	Ser	Leu	Thr	Leu	Leu	Phe	Leu	Arg	Thr	Pro	Leu
		275					280					285		Leu
Ser	Ala	Val	Gly	Ala	Leu	Pro	Thr	Leu	Leu	Ser	Ala	Gln	Val	Ala
		290					295				300			Phe
Asn	Lys	Leu	Lys	Lys	Phe	Asp	Leu	Ala	Pro	Phe	Lys	Ala	Glu	Phe
		305					310				315			Pro
Arg	Pro	Gln	Ala	Phe	Pro	Asn	Trp	Gln	Thr	Leu	Glu	Leu	Arg	Asn
				325					330					Val
Thr	Phe	Arg	Tyr	Gln	Asp	Asn	Ala	Phe	Ser	Val	Gly	Pro	Ile	Asn
			340						345				350	Leu
Thr	Ile	His	Arg	Gly	Glu	Leu	Leu	Phe	Leu	Ile	Gly	Gly	Asn	Gly
		355					360					365		Ser
Gly	Lys	Ser	Thr	Leu	Ala	Met	Leu	Leu	Thr	Gly	Leu	Tyr	Gln	Pro
		370					375				380			Gln
Ser	Gly	Glu	Ile	Leu	Leu	Asp	Gly	Lys	Ala	Leu	Ser	Ala	Glu	Lys
		385					390				395			Pro
Glu	Asp	Tyr	Arg	Lys	Leu	Phe	Ser	Ala	Val	Phe	Thr	Asp	Val	Trp
				405					410					Leu
Phe	Asp	Arg	Leu	Leu	Gly	Pro	Glu	Gly	Gln	Gln	Ala	Asp	Pro	Ala
			420						425				430	Leu
Val	Glu	Lys	Trp	Leu	Ala	His	Leu	Gln	Met	Ser	His	Lys	Leu	Glu
			435						440				445	Leu
Gln	Asp	Gly	Lys	Ile	Leu	Asn	Leu	Lys	Leu	Ser	Lys	Gly	Gln	Lys
		450					455				460			Lys
Arg	Val	Ala	Leu	Leu	Leu	Ala	Leu	Ala	Glu	Glu	Arg	Asp	Ile	Ile
		465					470				475			Leu
Leu	Asp	Glu	Trp	Ala	Ala	Asp	Gln	Asp	Pro	His	Phe	Arg	Arg	Glu
				485					490					Phe
Tyr	Gln	Val	Leu	Leu	Pro	Leu	Met	Gln	Ala	Met	Gly	Lys	Thr	Ile
			500						505				510	Phe
Ala	Ile	Ser	His	Asp	Asp	His	Tyr	Phe	Ile	His	Ala	Asp	Arg	Leu
		515					520					525		Leu
Glu	Met	Arg	Asp	Gly	Lys	Leu	Ser	Glu	Leu	Thr	Gly	Asp	Glu	Arg
		530					535				540			Asp
Ala	Ala	Ser	Arg	Asp	Ala	Val	Ala	Arg	Thr	Ala				
		545				550				555				

<210> 6500

<211> 345

<212> PRT

<213> Enterobacter cloacae

<400> 6500

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Leu Cys Pro Val Pro Gly Ser Leu Val Gly Glu Asp Asp Leu Tyr Gly
1          5          10          15
Lys Val Asp Gly Leu His Tyr Phe Ser Asp Asp Asp Ser Ala Asp Gly
20          25          30
Asp Gln Thr Tyr Met Arg Leu Gly Phe Lys Gly Glu Thr Gln Val Asn
35          40          45
Asp Gln Leu Thr Gly Tyr Gly Gln Trp Glu Tyr Gln Ile Gln Gly Asn
50          55          60
Ser Gly Glu Asn Glu Asn Asn Ser Trp Thr Arg Val Ala Phe Ala Gly
65          70          75          80
Leu Lys Phe Ala Asp Ala Gly Ser Phe Asp Tyr Gly Arg Asn Tyr Gly
85          90          95
Val Val Tyr Asp Val Thr Ser Trp Thr Asp Val Leu Pro Glu Phe Gly
100         105         110
Gly Asp Thr Tyr Gly Ser Asp Asn Phe Met Gln Gln Arg Gly Asn Gly
115         120         125
Phe Ala Thr Tyr Arg Asn Gln Asp Phe Phe Gly Leu Val Asp Gly Leu
130         135         140
Asn Phe Ala Leu Gln Tyr Gln Gly Lys Asn Gly Ser Ala Ser Gly Glu
145         150         155         160
Gly Gln Thr Asn Asn Gly Arg Glu Ala Leu Arg Gln Asn Gly Asp Gly
165         170         175
Tyr Gly Gly Ser Leu Thr Tyr Asp Leu Gly Glu Gly Phe Ala Ile Gly
180         185         190
Thr Ala Val Thr Ser Ser Lys Arg Thr Ala Asp Gln Asn Ala Ala Gly
195         200         205
Tyr Tyr Gly Glu Gly Asp Arg Ala Glu Thr Tyr Thr Gly Gly Leu Lys
210         215         220
Tyr Asp Ala Asn Asn Ile Tyr Leu Ala Ala Gln Tyr Thr Gln Thr Tyr
225         230         235         240
Asn Ala Thr Arg Ala Gly Asp Leu Gly Trp Ala Asn Lys Ala His Asn
245         250         255
Phe Glu Val Val Ala Gln Tyr Gln Phe Asp Phe Gly Leu Arg Pro Ser
260         265         270
Val Ala Tyr Leu Gln Ser Lys Gly Lys Asp Leu Glu Asn Gly Tyr Gly
275         280         285
Asp Gln Asp Leu Leu Lys Tyr Val Asp Val Gly Ala Thr Tyr Tyr Phe
290         295         300
Asn Lys Asn Met Ser Thr Tyr Val Asp Tyr Lys Ile Asn Leu Val Asp
305         310         315         320
Glu Asn Asp Phe Thr Arg Ala Ala Gly Ile Gly Thr Asp Asp Ile Val
325         330         335
Ala Leu Gly Leu Val Tyr Gln Phe
340         345

```

<210> 6501

<211> 131

<212> PRT

<213> Enterobacter cloacae

<400> 6501

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Pro Met Asp Met Thr Phe Leu Arg Ala Ser Val Leu Ala Thr Phe Leu
1          5          10          15
Leu Leu Thr Ala Cys Asp Ser Ser Thr Gln Pro Ala Lys Ile Asp Ala
20          25          30
Pro Ala Ala Thr Val Leu Glu Gly Lys Thr Met Gly Thr Phe Trp Arg
35          40          45
Val Ser Val Met Asp Ile Asp Lys Ser Arg Ala Glu Glu Leu Arg Gly

```

50		55		60													
Lys	Ile	Gln	Ala	Gln	Leu	Asp	Ala	Asp	Asp	Gln	Leu	Leu	Ser	Thr	Tyr		
65					70					75					80		
Lys	Asn	Asp	Ser	Ala	Leu	Met	Arg	Phe	Asn	Arg	Ser	Ser	Gln	His	Leu		
				85					90					95			
Ala	Val	Ala	Gly	Glu	Arg	Ser	Asn	Gly	Arg	Tyr	Arg	His	Gly	Ser	His		
			100					105					110				
Ala	Arg	Gly	Lys	Gln	Asn	Gln	Arg	Arg	Asn	Gly	Cys	Asp	Gly	Gly	Ala		
		115					120					125					
Arg	Trp																
	130																

<210> 6502

<211> 206

<212> PRT

<213> Enterobacter cloacae

<400> 6502

Asn	Leu	Trp	Gly	Phe	Gly	Pro	Asn	Lys	Gln	Pro	Val	Thr	Thr	Pro	Asp		
1			5						10					15			
Gln	Ala	Ala	Ile	Asp	Asp	Ala	Arg	Ala	Arg	Thr	Gly	Leu	Gln	His	Leu		
			20					25					30				
Ala	Val	Ile	Ser	Gln	Tyr	Gly	Gln	Gln	Tyr	Leu	Gln	Lys	Asp	Ile	Pro		
		35				40					45						
Asp	Leu	Phe	Val	Asp	Leu	Ser	Thr	Val	Gly	Glu	Gly	Tyr	Ala	Ala	Asp		
	50				55					60							
His	Leu	Ala	Ala	Leu	Met	Ala	Gln	Glu	Gly	Ile	Pro	Arg	Tyr	Leu	Val		
65				70					75					80			
Ser	Val	Gly	Gly	Ala	Leu	Val	Ser	Arg	Gly	Met	Asn	Ala	Ser	Gly	Arg		
			85					90					95				
Pro	Trp	Arg	Val	Ala	Ile	Gln	Lys	Pro	Thr	Asp	Gln	Gln	Asn	Ala	Val		
			100				105						110				
Gln	Ala	Ile	Val	Asp	Ile	Asn	Gly	His	Gly	Ile	Ser	Thr	Ser	Gly	Ser		
		115				120						125					
Tyr	Arg	Asn	Tyr	Tyr	Glu	Leu	Asp	Gly	Lys	Arg	Ile	Ser	His	Val	Ile		
	130				135					140							
Asp	Pro	Gln	Thr	Gly	Arg	Pro	Ile	Thr	His	Asn	Leu	Val	Ser	Val	Thr		
145					150				155						160		
Val	Ile	Ala	Pro	Thr	Ala	Leu	Glu	Ala	Asp	Ala	Trp	Asp	Thr	Gly	Leu		
			165					170						175			
Met	Val	Leu	Gly	Thr	Glu	Lys	Ala	Lys	Glu	Val	Val	Arg	Gln	Glu	Gly		
		180					185					190					
Leu	Ala	Val	Tyr	Met	Ile	Thr	Lys	Glu	Ala	Asp	Gly	Phe					
	195					200						205					

<210> 6503

<211> 224

<212> PRT

<213> Enterobacter cloacae

<400> 6503

Gly	Glu	Gln	Pro	Gly	Gly	Ile	Met	Leu	Asp	Leu	Phe	Ala	Asp	Ala	Glu		
1			5						10					15			
Pro	Trp	Gln	Glu	Ser	Leu	Ala	Pro	Gly	Ala	Thr	Ile	Leu	Arg	Arg	Phe		
		20					25						30				
Ala	Leu	Ser	Arg	Ala	Ala	Ala	Leu	Phe	Asp	Gly	Ile	Lys	Ala	Val	Thr		
		35				40						45					
Ala	Arg	Ser	Pro	Phe	Arg	His	Met	Val	Thr	Pro	Gly	Gly	Tyr	Thr	Met		
	50				55					60							
Ser	Val	Ala	Met	Thr	Asn	Cys	Gly	Glu	Leu	Gly	Trp	Ala	Thr	Asn	Glu		
65				70					75						80		

```

Arg Gly Tyr Val Tyr Ala Ala Tyr Asp Pro Leu Thr Asp Gln Pro Trp
      85          90          95
Pro Pro Met Pro Glu Ala Phe Gln Ala Leu Cys His Asp Ala Ala Val
      100          105          110
Ala Ala Gly Tyr Pro Asp Phe Arg Pro Asp Ala Cys Leu Ile Asn Arg
      115          120          125
Tyr Ala Val Gly Ala Lys Leu Ser Leu His Gln Asp Lys Asp Glu Pro
      130          135          140
Asp Leu Arg Ala Pro Ile Val Ser Val Ser Leu Gly Leu Pro Ala Val
145          150          155
Phe Gln Phe Gly Gly Leu Arg Arg Asn Asp Pro Leu Lys Arg Leu Met
      165          170          175
Leu Glu His Gly Asp Val Val Val Trp Gly Gly Glu Ser Arg Leu Phe
      180          185          190
Tyr His Gly Ile Gln Pro Leu Lys Pro Gly Asp His Pro Val Ala Gly
      195          200          205
Ala Phe Arg Tyr Asn Leu Thr Phe Arg Gln Ala Ala Tyr Arg Glu
      210          215          220

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<210> 6504

<211> 480

<212> PRT

<213> Enterobacter cloacae

<400> 6504

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Leu Met Ser Val Leu Lys Lys Asn Ser Ala Arg Gln Arg Asp Gln Glu
1      5          10          15
Arg Ala Arg Leu Ile Trp Leu Leu Thr Thr Asp Lys Ala Val Thr Ser
      20          25          30
Thr Leu Leu Gly Lys Leu Thr Leu Ala Glu Gln Tyr Asp Val Gly Thr
      35          40          45
Leu Ala Asp Asp Ile Ala Glu Val Gly Ala Leu Val Ala His Leu Pro
      50          55          60
Pro Pro Asp Leu Ala Asp Thr Leu Glu Ala Leu Pro Ser Glu Glu Arg
      65          70          75          80
His Ala Leu Trp Arg Leu Val Gln Asp His Glu Arg Gly Gln Val Leu
      85          90          95
Leu Glu Ala Ser Glu Asn Val Trp Asp Asp Leu Ile Asp Glu Met Ser
      100          105          110
Asp Arg Asp Ile Leu Asp Ala Leu Gln Thr Leu Asp Ile Asp Glu Gln
      115          120          125
Ile Tyr Leu Val Gln His Leu Pro Arg Asn Leu Thr Gly Arg Leu Leu
      130          135          140
Ala Ser Leu Pro Ala Glu Glu Arg Ala Arg Val Arg Gln Val Met His
145          150          155          160
Tyr Glu Lys Asn Ser Val Gly Ala Ile Met Glu Phe Gly Val Ile Thr
      165          170          175
Val Arg Pro Asp Val Thr Leu Gly Thr Val Gln Arg Tyr Leu Arg Arg
      180          185          190
Leu Gly Ser Met Pro Asp Asn Thr Asp Lys Leu Phe Val Thr Ser Arg
      195          200          205
Asp Lys Thr Leu Leu Gly Glu Leu Glu Leu Lys Thr Ile Leu Leu Asn
      210          215          220
Ser Thr Gln Gln Arg Val Ser Glu Val Met Glu Thr Glu Pro Met Val
225          230          235          240
Phe Ser Pro Glu Asp Ala Glu Lys Ala Ala Arg Thr Phe Glu Arg
      245          250          255
Asp Asp Leu Val Ser Ala Ala Val Val Asp Ser Val Gly Lys Leu Met
      260          265          270
Gly Arg Leu Thr Ile Asp Glu Ile Val Asp Val Val Tyr Glu Glu Thr
      275          280          285

```

```

Asp Asn Asp Leu Arg Ala Leu Gly Gly Ile Ser Ala Glu Asp Asp Val
 290          295          300
His Ala Ser Val Gly Lys Ala Val Lys Thr Arg Trp Ala Trp Leu Ala
 305          310          315          320
Ile Asn Leu Cys Thr Ala Phe Val Ala Ser Arg Val Ile Asp Gly Phe
          325          330          335
Glu His Thr Ile Ser Gln Leu Val Ala Leu Ala Ser Leu Met Pro Ile
          340          345          350
Val Ala Gly Ile Gly Gly Asn Thr Gly Asn Gln Thr Ile Thr Met Ile
          355          360          365
Val Arg Ala Leu Ala Leu Glu Asn Ile Gln Pro Gly Asn Phe Ser Trp
          370          375          380
Leu Ile Phe Arg Glu Met Gly Val Ala Leu Ile Asn Gly Leu Val Trp
 385          390          395          400
Gly Gly Ile Met Gly Gly Ile Thr Trp Trp Leu Tyr Asp Asp Met Ala
          405          410          415
Leu Gly Gly Val Met Met Leu Ala Met Val Leu Asn Leu Leu Val Ala
          420          425          430
Ala Met Met Gly Val Ile Ile Pro Leu Thr Met Thr Arg Leu Gly Arg
          435          440          445
Asp Pro Ala Val Gly Ser Ser Val Met Ile Thr Ala Ile Thr Asp Thr
          450          455          460
Gly Gly Phe Phe Ile Phe Leu Gly Leu Ala Thr Ile Phe Leu Leu
 465          470          475          480

```

<210> 6505

<211> 68

<212> PRT

<213> Enterobacter cloacae

<400> 6505

```

Ser Ala Ser Ala Ala Pro Tyr Pro Ala Arg Arg Thr Gly Ser Glu Ser
 1          5          10          15
Cys Leu Pro Ser Pro Pro Arg Ala Glu Cys Thr Val Arg Arg Val Asp
          20          25          30
Gly Pro Ser Gly Gln Ser Pro Ala Arg Arg Asn Leu Pro Pro Pro Ser
          35          40          45
Pro Trp Pro Asp Ala Arg Arg Ala Gly Lys Gly Arg Asn Arg Ala Pro
          50          55          60
Arg Arg Arg
 65

```

<210> 6506

<211> 326

<212> PRT

<213> Enterobacter cloacae

<400> 6506

```

Leu Pro Cys Ser Phe Leu Leu Ala Val Gly Leu Asn Ala Val Ser Leu
 1          5          10          15
Ala Ala Lys Ala Asp Ala Pro Lys Glu Gln Glu Thr Asp Val Leu Leu
          20          25          30
Ile Gly Gly Gly Ile Met Ser Ala Thr Leu Gly Thr Tyr Leu Gln Glu
          35          40          45
Leu Glu Pro Asn Trp Ser Met Thr Met Val Glu Arg Leu Asp Gly Val
          50          55          60
Ala Gln Glu Ser Ser Asn Gly Trp Asn Asn Ala Gly Thr Gly His Ser
 65          70          75          80
Ala Leu Met Glu Leu Asn Tyr Thr Pro Gln Lys Lys Asp Gly Ser Ile
          85          90          95
Ser Ile Glu Lys Ala Val Glu Ile Asn Glu Ala Phe Gln Ile Ser Arg

```



```
<210> 6507
<211> 467
<212> PRT
<213> Enterobacter cloacae
```

Ile 1	Leu	Phe	Lys	Gly 5	Tyr	Glu	Ile	Ile	Val 10	Ile	Val	Lys	Phe	Asn 15	Asp
Gly	Leu	Phe	Val 20	Gly	Phe	Trp	Gln	Thr 25	Gly	Trp	His	Pro	Thr 30	Ile	Phe
Leu	Ala	Met 35	Met	Leu	His	Phe	Val 40	Ile	Ala	Arg	Thr	Glu 45	Ala	Cys	Pro
Tyr	Gln 50	Arg	Ile	Val	Met	Ser 55	Leu	Pro	His	Ser	Ser 60	Leu	Pro	Gln	Glu
Gly 65	His	Val	Ala	Thr 70	Val	Leu	Arg	Ser	Pro	His 75	Arg	Leu	Met	Arg	Glu 80
Thr	Leu	Ala	Gly 85	Val	Ile	Thr	Ala	Leu	Ala 90	Leu	Ile	Pro	Glu 95	Val	Ile
Ser	Phe	Ser 100	Val	Val	Ala	Gly	Val	Asp 105	Pro	Lys	Val	Ser	Leu 110	Ile	Ala
Ser	Val	Val 115	Leu	Cys	Phe	Ala	Leu	Ser 120	Leu	Leu	Gly	Gly 125	Arg	Pro	Ala
Met	Val 130	Thr	Ala	Ala	Ala	Gly 135	Ser	Val	Ala	Leu	Val 140	Ile	Gly	Pro	Met
Val 145	His	Gln	His	Gly 150	Val	Gln	Tyr	Ile	Leu	Pro 155	Ala	Val	Val	Met 160	Ala
Gly	Met	Ile	Gln 165	Ile	Leu	Phe	Gly	Ala 170	Leu	Gly	Met	Ala	Arg	Leu 175	Met
Arg	Phe	Ile 180	Pro	Gln	Ser	Val	Met	Thr 185	Gly	Phe	Val	Asn 190	Ala	Leu	Gly
Ile	Leu	Ile	Phe	Phe	Ala	Gln	Val	Pro	His	Phe	Trp	Ser	Arg	Ser	Pro

195 200 205
 Leu Ile Val Gly Leu Phe Val Leu Thr Leu Leu Ile Val Leu Trp Val
 210 215 220
 Pro Arg Tyr Ile Lys Ser Val Pro Ser Pro Leu Ile Ala Ile Val Leu
 225 230 235 240
 Leu Thr Leu Phe Thr Val Thr Ser Gly Gln Ile Leu Pro Thr Val Gly
 245 250 255
 Asp Glu Gly Ser Met Ser Gly Gly Leu Pro Gly Phe Thr Gln Leu Leu
 260 265 270
 Val Pro Leu Asn Leu Glu Thr Leu Ser Ile Ile Trp Pro Cys Ala Leu
 275 280 285
 Ser Ile Ala Phe Val Gly Leu Leu Glu Ser Leu Leu Thr Ala Lys Leu
 290 295 300
 Val Asp Glu Leu Thr Ala Thr Pro Ser Ser Lys Arg Arg Glu Ser Ile
 305 310 315 320
 Gly Leu Gly Val Gly Asn Ile Met Ala Gly Phe Tyr Gly Gly Ile Ala
 325 330 335
 Gly Cys Ala Met Ile Gly Gln Thr Ile Val Asn Val Glu Met Gly Lys
 340 345 350
 Gly Arg Ser Arg Ile Ser Thr Leu Ala Ala Gly Ile Val Leu Leu Val
 355 360 365
 Leu Val Thr Ala Leu Ser Glu Val Met Ala Lys Ile Pro Met Ala Val
 370 375 380
 Leu Ala Gly Ile Met Ala Ile Val Ala Val Lys Thr Phe Ser Trp His
 385 390 395 400
 Ser Val Gln Pro Gly Thr Leu Lys Asn Ala Pro Val Ala Glu Thr Val
 405 410 415
 Val Met Leu Val Thr Val Val Ala Thr Val Tyr Thr Gly Asn Leu Ala
 420 425 430
 Ile Gly Val Leu Gly Gly Ile Val Met Met Phe Ile Leu Pro Ala Arg
 435 440 445
 Leu Lys Gln Lys Ala Leu Ala Arg Glu Glu Lys Ser Ser Pro Val Gln
 450 455 460
 Glu Lys
 465

<210> 6508

<211> 202

<212> PRT

<213> Enterobacter cloacae

<400> 6508

Ile Met Gly Ile Phe Ser Arg Phe Ala Asp Ile Val Asn Ala Asn Ile
 1 5 10 15
 Asn Ser Leu Leu Glu Lys Ala Glu Asp Pro Gln Lys Leu Val Arg Leu
 20 25 30
 Met Ile Gln Glu Met Glu Asp Thr Leu Val Glu Val Arg Ser Thr Ser
 35 40 45
 Ala Arg Ala Leu Ala Glu Lys Lys Gln Leu Thr Arg Arg Ile Glu Gln
 50 55 60
 Ala Thr Ala Gln Leu Asn Glu Trp Gln Glu Lys Ala Glu Leu Ala Leu
 65 70 75 80
 Arg Lys Asp Lys Glu Asp Leu Ala Arg Ala Ala Leu Ile Glu Lys Gln
 85 90 95
 Lys Leu Thr Asp Met Val Ala Thr Leu Glu His Glu Val Thr Leu Val
 100 105 110
 Asp Asp Thr Leu Thr Arg Met Lys Lys Glu Ile Gly Glu Leu Glu Asn
 115 120 125
 Lys Leu Ser Glu Thr Arg Ala Arg Gln Gln Gly Ala Gly Ala Ala Pro
 130 135 140
 Pro Gly Leu Gln Ala Arg Pro Ala Thr Cys Val Ala Asn Trp Thr Ala

145 150 155 160
 Ala Asn Trp Met Lys Gln Trp Arg Val Ser Asn Arg Leu Asn Val Val
 165 170 175
 Ser Thr Thr Trp Lys Arg Lys Pro Lys Ala Thr Ala Ser Val Ser Arg
 180 185 190
 Lys Pro Trp Ile Ser Ser Leu Leu Thr
 195 200

<210> 6509

<211> 85

<212> PRT

<213> Enterobacter cloacae

<400> 6509

Ala Cys Arg Ile Val Arg Gln Gly Val His Met Ser Ala Leu Phe Leu
 1 5 10 15
 Ala Ile Pro Leu Thr Ile Phe Val Leu Phe Val Leu Pro Ile Trp Leu
 20 25 30
 Trp Leu His Tyr Ser Asn Arg Ser Ser Arg Gly Glu Leu Ser Gln Ser
 35 40 45
 Glu Gln Gln Arg Leu Ala Gln Leu Ser Ala Glu Ala Asn Lys Met Arg
 50 55 60
 Glu Arg Ile Gln Ala Leu Glu Ala Ile Leu Asp Ala Glu His Pro Asn
 65 70 75 80
 Trp Arg Glu Arg
 85

<210> 6510

<211> 205

<212> PRT

<213> Enterobacter cloacae

<400> 6510

Leu Pro Leu Asn Glu Gly Ser Pro Met Ala Thr Lys Arg Arg Ala Glu
 1 5 10 15
 Thr Ala Gln Glu Asn Arg Glu Lys Met Ile Gln Ala Ala Arg Lys Ala
 20 25 30
 Phe Ala Glu Lys Gly Tyr Ala Ala Ala Ser Met Asp Glu Leu Thr Ala
 35 40 45
 Ser Val Gly Leu Thr Arg Gly Ala Leu Tyr His Asn Phe Asn Asp Lys
 50 55 60
 Lys Gly Leu Leu Ala Ala Val Val Ala Gln Ile Asp Ser Glu Met Ala
 65 70 75 80
 Ala Asn Ala Lys Ala Ile Ala Ala Ala Ala Asp Asp Asp Trp Glu Arg
 85 90 95
 Leu Leu Ala Glu Gly Ile Ala Tyr Ile Lys Met Ala Leu Val Pro Glu
 100 105 110
 Val Gln Arg Ile Val Leu Leu Asp Gly Pro Ala Val Leu Gly Asp Pro
 115 120 125
 Ala Gln Trp Pro Ser Gln Asn Asn Cys Leu Glu Ser Thr Arg Gln Thr
 130 135 140
 Ile Glu Lys Met Met Glu Cys Asn Val Ile Lys Lys Met Asp Ala Arg
 145 150 155 160
 Val Ala Ala His Leu Leu Asn Gly Ala Ala Leu Asn Ala Ala Leu Leu
 165 170 175
 Ile Ala Ala Ser Asp Glu Pro Gln Lys Thr Leu Pro His Ala Ile Glu
 180 185 190
 Val Phe Thr Leu Leu Ala Ser Gly Leu Arg Asn Gly
 195 200 205

<210> 6511

<211> 98
 <212> PRT
 <213> Enterobacter cloacae

<400> 6511

```

Lys Gln Thr Gln Arg Asn Pro Cys Thr Ser Thr Gly Arg Trp Arg Cys
1          5          10          15
Pro Thr Arg Ala Ala Ser Ser Ser Arg Asp Val Arg Arg Gln Leu Asp
          20          25          30
Ser Gly Lys Leu Asp Glu Ala Met Ala Arg Phe Glu Ser Phe Glu Arg
          35          40          45
Arg Ile Asp His Met Glu Ala Glu Ala Glu Ser His Ser Ile Gly Lys
          50          55          60
Gln Lys Thr Leu Asp Gln Gln Phe Ala Asp Leu Lys Ala Asp Asp Glu
65          70          75          80
Ile Ser Glu Gln Leu Ala Ala Leu Lys Ala Lys Met Lys Gln Asp Asn
          85          90          95
Gln

```

<210> 6512
 <211> 143
 <212> PRT
 <213> Enterobacter cloacae

<400> 6512

```

Asn Ala Arg Thr Tyr Ser Gly Ala Gly Ser His Pro Gly Arg Gly Thr
1          5          10          15
Pro Lys Leu Glu Gly Thr Val Met Ala Gly Leu Asn Leu Asn Lys Lys
          20          25          30
Leu Trp Arg Ile Pro Gln Gln Gly Met Val Arg Gly Val Cys Ala Gly
          35          40          45
Leu Ala His Tyr Leu Asp Val Pro Val Lys Leu Val Arg Val Val Thr
          50          55          60
Val Leu Ser Ile Phe Phe Gly Leu Ala Phe Ile Thr Leu Val Ala Tyr
65          70          75          80
Ile Ile Leu Ser Phe Val Leu Asp Pro Met Pro Glu Gly Glu Leu Asn
          85          90          95
Ala Glu Asn Thr Pro Thr Ser Arg Asp Leu Leu Asn Ala Val Asp Glu
          100          105          110
Gln Leu Ser Ala Gly Glu Lys Arg Leu Arg Glu Met Glu Arg Tyr Val
          115          120          125
Thr Ser Asp Thr Phe Thr Leu Arg Ser Arg Phe Arg Gln Leu
          130          135          140

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<210> 6513
 <211> 79
 <212> PRT
 <213> Enterobacter cloacae

<400> 6513

```

Glu Arg Thr Tyr Met Lys Gln Asn Trp Gln Gln Ala Gly Gln Lys Val
1          5          10          15
Lys Pro Gly Leu Lys Ile Ala Gly Lys Leu Val Leu Met Thr Ala Leu
          20          25          30
Arg Tyr Gly Pro Ala Gly Val Ala Gly Trp Ala Ile Lys Ser Val Ala
          35          40          45
Arg Lys Pro Val Arg Met Met Leu Ala Val Ala Leu Glu Pro Leu Leu
          50          55          60
Gln Lys Leu Ala Lys Arg Val Ser Arg Arg Tyr Leu Ser Arg
65          70          75

```

<210> 6514
 <211> 332
 <212> PRT
 <213> Enterobacter cloacae

<400> 6514

```

Gly Val Val Asn Phe Ile Met Ala Glu Tyr Lys Asp Asn Leu Leu Gly
1          5          10          15
Glu Ala Asn Ser Phe Leu Glu Val Leu Glu Gln Val Ser Arg Leu Ala
20          25          30
Pro Leu Asn Lys Pro Val Leu Ile Glu Gly Glu Arg Gly Thr Gly Lys
35          40          45
Glu Leu Ile Ala Asn Arg Leu His Phe Leu Ser Gly Arg Trp Asp Gly
50          55          60
Pro Phe Ile Ser Leu Asn Cys Ala Ala Leu Asn Glu Asn Leu Leu Asp
65          70          75          80
Thr Glu Leu Phe Gly His Glu Ala Gly Ala Phe Thr Gly Ala Gln Lys
85          90          95
Arg His Pro Gly Arg Phe Glu Arg Ala Asp Gly Gly Thr Leu Phe Leu
100         105         110
Asp Glu Leu Ala Thr Ala Pro Met Leu Val Gln Glu Lys Leu Leu Arg
115         120         125
Val Ile Glu Tyr Gly Glu Leu Glu Arg Val Gly Gly Ser Gln Pro Leu
130         135         140
Gln Val Asn Val Arg Leu Val Cys Ala Thr Asn Ala Asp Leu Pro Ala
145         150         155         160
Met Val Ala Glu Asp Lys Phe Arg Ala Asp Leu Leu Asp Arg Leu Ala
165         170         175
Phe Asp Val Val Gln Leu Pro Pro Leu Arg Glu Arg Arg Ser Asp Ile
180         185         190
Met Leu Leu Ala Asp Gln Phe Ala Ile Gln Met Cys Arg Glu Leu Gly
195         200         205
Leu Pro Leu Phe Pro Gly Phe Ser Glu Arg Ala Thr Gly Thr Leu Leu
210         215         220
Gly Tyr His Trp Pro Gly Asn Ile Arg Glu Leu Lys Asn Val Val Glu
225         230         235         240
Arg Ser Val Tyr Arg His Gly Ser Ser Glu Thr Glu Leu Asp Asn Ile
245         250         255
Ile Leu Asp Pro Phe Arg Arg Glu Asp Lys Gln Pro Pro Ala Pro Ala
260         265         270
Thr Arg Gln Gln Asp Pro Ala Leu Pro Leu Asp Leu Arg Gln Phe Gln
275         280         285
His Gln Gln Glu Lys Asn Leu Leu Glu Gln Ser Leu Lys Glu Ala Lys
290         295         300
Tyr Asn Gln Lys Arg Ala Ala Glu Leu Leu Gly Leu Thr Tyr His Gln
305         310         315         320
Leu Arg Ala Leu Leu Lys Lys His Gln Met Arg
325         330

```

<210> 6515
 <211> 330
 <212> PRT
 <213> Enterobacter cloacae

<400> 6515

```

Glu Arg Thr Arg Gly Glu Glu Thr Met Ile Ile Phe Thr Leu Arg Arg
1          5          10          15
Leu Leu Leu Leu Leu Val Thr Leu Phe Phe Leu Thr Phe Val Gly Phe
20          25          30
Ser Leu Ser Tyr Phe Thr Pro His Ala Pro Leu Gln Gly Ser Ser Leu

```

35 40 45
 Trp Asp Ala Trp Leu Phe Trp Phe Asn Gly Leu Leu His Trp Asp Phe
 50 55 60
 Gly Val Ser Ser Ile Asn Gly Gln Leu Ile Ser Glu Gln Leu Lys Val
 65 70 75 80
 Val Phe Pro Ala Thr Met Glu Leu Cys Val Leu Ala Phe Gly Phe Ala
 85 90 95
 Leu Met Val Gly Ile Pro Val Gly Met Leu Ala Gly Ile Tyr Arg Asn
 100 105 110
 Lys Trp Gln Asp Lys Phe Ile Ser Ala Leu Ala Leu Ile Gly Phe Ser
 115 120 125
 Ile Pro Val Phe Trp Leu Ala Leu Leu Leu Thr Leu Phe Phe Ser Leu
 130 135 140
 Thr Leu Gly Trp Leu Pro Val Ser Gly Arg Phe Asp Leu Leu Tyr Asn
 145 150 155 160
 Val Gln Thr Val Ser Gly Phe Ala Ile Val Asp Ala Trp Leu Ser Asp
 165 170 175
 Ser Val Trp Arg Asp Glu Met Ile Val Ser Ala Leu Arg His Met Val
 180 185 190
 Leu Pro Val Leu Thr Leu Ala Val Ala Pro Thr Thr Glu Val Ile Arg
 195 200 205
 Leu Met Arg Ile Ser Thr Ile Asp Val Phe Asp Gln Asn Tyr Val Lys
 210 215 220
 Ala Ala Ala Thr Arg Gly Leu Ser Arg Leu Thr Ile Leu Arg Arg His
 225 230 235 240
 Val Leu His Asn Ala Leu Pro Pro Val Ile Pro Arg Leu Gly Leu Gln
 245 250 255
 Phe Ser Thr Met Leu Thr Leu Ala Met Ile Thr Glu Met Val Phe Ser
 260 265 270
 Trp Pro Gly Leu Gly Arg Trp Met Ile Asn Ala Ile Arg Gln Gln Asp
 275 280 285
 Tyr Ala Ala Ile Ser Ala Gly Val Met Val Ile Gly Ser Leu Val Ile
 290 295 300
 Ile Val Asn Val Val Ser Asp Ile Leu Gly Ala Met Ala Asn Pro Leu
 305 310 315 320
 Lys His Lys Glu Trp Tyr Ala Leu Arg
 325 330

<210> 6516

<211> 347

<212> PRT

<213> Enterobacter cloacae

<400> 6516

Pro Ala Gly Arg Arg Asp Pro Pro Arg Asn Gln Cys Gly Gly Ala Ile
 1 5 10 15
 Met Pro Leu Leu Asp Ile Arg Asn Leu Thr Ile Glu Ile Lys Thr Gly
 20 25 30
 Glu Gly Trp Val Lys Ala Val Asp Arg Ile Ser Ile Thr Leu Ala Glu
 35 40 45
 Gly Glu Ile Arg Gly Leu Val Gly Glu Ser Gly Ser Gly Lys Ser Leu
 50 55 60
 Ile Ala Lys Ala Ile Cys Gly Val Ala Lys Asp Asn Trp Arg Val Thr
 65 70 75 80
 Ala Asp Arg Met Arg Phe Asp Asp Ile Asp Leu Leu Arg Leu Ser Pro
 85 90 95
 Arg Glu Arg Arg Lys Leu Val Gly His Asn Val Ser Met Ile Phe Gln
 100 105 110
 Glu Pro Gln Ser Cys Leu Asp Pro Ser Glu Arg Val Gly Lys Gln Leu
 115 120 125
 Met Gln Asn Ile Pro Gly Trp Thr Tyr Lys Gly Arg Trp Trp Gln Arg

130	135	140
Phe Gly Trp Arg Lys Arg Arg Ala Ile Glu Leu Leu His Arg Val Gly		
145	150	155
Ile Lys Asp His Lys Asp Ala Met Arg Ser Phe Pro Tyr Glu Leu Thr		
	165	170
Asp Gly Glu Cys Gln Lys Val Met Ile Ala Ile Ala Leu Ala Asn Gln		
	180	185
Pro Arg Leu Leu Ile Ala Asp Glu Pro Thr Asn Ala Met Glu Pro Thr		
	195	200
Thr Gln Ala Gln Ile Phe Arg Leu Leu Thr Arg Leu Asn Gln Asn Asn		
	210	215
Asn Thr Thr Ile Leu Leu Ile Ser His Asp Leu Gln Met Leu Ser Lys		
225	230	235
Trp Ala Asp Lys Ile Asp Val Met Tyr Cys Gly Gln Thr Val Glu Thr		
	245	250
Ala Pro Ser Glu Asp Leu Val Thr Thr Pro His His Pro Tyr Thr Gln		
	260	265
Ala Leu Ile Arg Ala Ile Pro Asp Phe Gly Ser Ala Met Pro His Lys		
	275	280
Ser Arg Leu Asn Thr Leu Pro Gly Ala Ile Pro Leu Leu Glu Ser Leu		
	290	295
Pro Ile Gly Cys Arg Leu Gly Pro Arg Cys Pro Tyr Ala Gln Arg Lys		
305	310	315
Cys Ile Glu Thr Pro Arg Leu Thr Gly Pro Lys Asn His Leu Phe Ala		
	325	330
Cys His Phe Pro Leu Asn Met Glu Arg Glu		
	340	345

<210> 6517

<211> 587

<212> PRT

<213> Enterobacter cloacae

<400> 6517

Gly His Cys Ser Lys Asn Ile Lys Cys Ala Asp Ile Ile Ser Thr Tyr	
1	5
Pro Gln Thr Phe Leu Arg Ser Arg Arg Lys Cys Asp Thr Leu Cys Arg	
	20
Ser Asn Leu Lys Thr Leu Lys Thr Met Arg Leu Val Leu Ser Ser Leu	
	35
Phe Ala Leu Gly Leu Phe Ser Asn Leu Ala Phe Ala Ala Pro Asp Arg	
	50
Ala Val Pro Pro Asp Ile Arg Glu Ser Gly Phe Val Tyr Cys Val Ser	
65	70
Gly Gln Val Asp Thr Phe Asn Pro Gln Lys Ala Gly Ser Gly Leu Ile	
	85
Val Asp Thr Leu Ala Ala Gln Leu Tyr Asp Arg Leu Leu Asp Val Asp	
	100
Pro Tyr Thr Tyr Arg Leu Val Pro Glu Leu Ala Glu Ser Trp Glu Val	
	115
Leu Asp Asn Gly Ala Thr Tyr Arg Phe Arg Leu Arg Asp Asp Val Ala	
	130
Phe Gln His Thr Pro Trp Phe Thr Pro Thr Arg Lys Leu Asn Ala Asp	
145	150
Asp Val Val Phe Thr Phe Gln Arg Ile Phe Asn Arg Asn His Pro Trp	
	165
His Asn Val Asn Gly Gly Asn Phe Pro Tyr Phe Asp Ser Leu Gln Phe	
	180
Ala Asp Ser Val Lys Ser Val Arg Lys Leu Asp Asn Arg Thr Val Glu	
	195
Phe Arg Leu Thr Arg Pro Asp Ala Ser Phe Leu Trp His Leu Ala Thr	
	200

210		215		220
His Tyr Ala Ser Val	Met Ser Ala Glu Tyr Ala	Asp Gln Leu Thr Lys		
225	230	235	240	
Lys Asp Arg Gln Glu	Arg Leu Asp Arg Glu Pro	Val Gly Thr Gly Pro		
	245	250	255	
Phe Gln Leu Ala Glu	Tyr Arg Ala Gly Gln Tyr	Ile Arg Leu Gln Arg		
	260	265	270	
His Asp Arg Phe Trp	Arg Gly Lys Pro Leu Met	Pro Gln Val Ile Val		
	275	280	285	
Asp Leu Gly Ser Gly	Gly Thr Gly Arg Leu Ser	Lys Leu Leu Thr Gly		
	290	295	300	
Glu Cys Asp Val Leu	Ala Trp Pro Ala Ala	Ser Gln Leu Thr Ile Leu		
	310	315	320	
Arg Asp Asp Pro Arg	Leu Arg Leu Thr Leu	Arg Pro Gly Met Asn Ile		
	325	330	335	
Ala Tyr Leu Ala Phe	Asn Thr Asp Lys Pro	Pro Leu Asn Asn Pro Ala		
	340	345	350	
Val Arg His Ala Leu	Ala Leu Ala Ile Asn	Asn Gln Arg Leu Met Gln		
	355	360	365	
Ser Ile Tyr Tyr Gly	Thr Ala Glu Thr Ala	Ala Ser Ile Leu Pro Arg		
	370	375	380	
Ala Ser Trp Ala Tyr	Asp Gly Glu Ala Lys	Ile Thr Glu Tyr Asn Pro		
	385	390	395	400
Ala Lys Ala Arg Glu	Gln Leu Lys Ala Leu	Gly Ala Glu Asn Leu Thr		
	405	410	415	
Leu Gln Leu Trp Val	Pro Thr Ser Ser Gln	Ala Trp Asn Pro Ser Pro		
	420	425	430	
Leu Lys Thr Ala Glu	Leu Leu Gln Ala Asp	Met Ala Gln Val Gly Val		
	435	440	445	
Lys Val Ile Ile Val	Pro Val Glu Gly Arg	Phe Gln Glu Ala Arg Leu		
	450	455	460	
Met Asp Met Asn His	Asp Leu Thr Leu Ala	Gly Trp Ser Thr Asp Ser		
	465	470	475	480
Asn Asp Pro Asp Ser	Phe Phe Arg Pro Leu	Leu Ser Cys Ala Ala Ile		
	485	490	495	
Asn Ser Gln Thr Asn	Tyr Ala His Trp Cys	Asn Arg Glu Phe Asp Ala		
	500	505	510	
Val Leu Gln Lys Ala	Leu Ala Ser Gln Gln	Leu Ala Ser Arg Ile Glu		
	515	520	525	
Ala Tyr Asp Glu Ala	Gln Asn Ile Leu Ala	Arg Glu Leu Pro Val Leu		
	530	535	540	
Pro Leu Ala Ser Ser	Leu Arg Leu Gln Ala	Tyr Arg Tyr Asp Ile Lys		
	545	550	555	560
Gly Leu Val Leu Ser	Pro Phe Gly Asn Ala	Ser Phe Ala Gly Val Thr		
	565	570	575	
Arg Glu Lys Glu Gln	Glu Val Lys Lys Pro			
	580	585		

<210> 6518

<211> 302

<212> PRT

<213> Enterobacter cloacae

<400> 6518

Ser Ile Arg Asn Gly	Met Pro Tyr Asp	Asn Val Tyr Ser	Glu Lys Arg
1	5	10	15
Thr Pro Gly Ala	Leu Arg Thr Val	Trp Arg Asn Phe	Tyr Gly Asp Thr
	20	25	30
Thr Ala Met Ile	Gly Phe Tyr Gly	Cys Ile Gly Leu	Val Leu Leu Cys
	35	40	45
Val Leu Gly Ser	Trp Phe Ala Pro	Tyr Gly Ile Asp	Gln Gln Phe Leu

50		55		60
Gly Tyr Gln Leu Leu	Pro Pro Ser Trp Ser Arg	Tyr Gly Glu Val Ser		
65	70	75	80	
Phe Phe Leu Gly Thr	Asp Asp Leu Gly Arg Asp	Val Leu Ser Arg Leu		
	85	90	95	
Leu Ser Gly Ala Ala	Pro Thr Val Gly Gly Ala	Phe Val Val Thr Leu		
	100	105	110	
Ala Ala Ala Ile Cys	Gly Leu Ala Leu Gly Ile	Phe Ala Gly Ser Thr		
	115	120	125	
His Gly Leu Arg Ser	Ala Val Leu Asn His Ile	Leu Asp Thr Leu Leu		
	130	135	140	
Ser Ile Pro Ser Leu	Leu Ala Ile Ile Val Val	Ala Phe Ala Gly		
	145	150	155	160
Pro His Leu Thr His	Ala Met Phe Ala Val Trp	Leu Ala Ile Leu Pro		
	165	170	175	
Arg Met Val Arg Ser	Val Tyr Ser Leu Val His	Asp Glu Leu Glu Lys		
	180	185	190	
Glu Tyr Val Val Ala	Ala Arg Leu Asp Gly Ala	Thr Thr Phe Asn Ile		
	195	200	205	
Leu Trp Phe Ala Val	Leu Pro Asn Ile Ala Ala	Gly Leu Val Thr Glu		
	210	215	220	
Ile Thr Arg Ala Leu	Ser Met Ala Ile Leu Asp	Ile Ala Ala Leu Gly		
	225	230	235	240
Phe Leu Asp Leu Gly	Ala Gln Leu Pro Ser Pro	Glu Trp Gly Ala Met		
	245	250	255	
Leu Gly Asp Ala Leu	Glu Leu Ile Tyr Val Ala	Pro Trp Thr Val Met		
	260	265	270	
Leu Pro Gly Ala Ala	Ile Met Val Ser Val Leu	Leu Val Asn Leu Leu		
	275	280	285	
Gly Asp Gly Ile Arg	Arg Ala Ile Asn Ala Gly	Val Gln		
	290	295	300	

<210> 6519

<211> 275

<212> PRT

<213> Enterobacter cloacae

<400> 6519

Thr Trp Arg Glu Ser	Glu Met Val Glu Thr	Leu Leu Glu Val Arg	Asn	
1	5	10	15	
Leu Ser Lys Thr Phe	Arg Tyr Arg Thr Gly	Leu Phe His Arg	Gln Thr	
	20	25	30	
Val Glu Ala Val Lys	Pro Leu Ser Phe Thr	Leu Arg Glu Lys	Gln Thr	
	35	40	45	
Leu Ala Ile Ile Gly	Glu Asn Gly Ser Gly	Lys Ser Thr Leu	Ala Lys	
	50	55	60	
Met Leu Ala Gly Met	Val Glu Pro Ser Gly	Gly Glu Ile Leu	Ile Asp	
	65	70	75	80
Asp His Pro Leu Glu	Phe Gly Asp Tyr Ser	Phe Arg Ser Gln	Arg Ile	
	85	90	95	
Arg Met Ile Phe Gln	Asp Pro Ser Thr Ser	Leu Asn Pro Arg	Gln Arg	
	100	105	110	
Ile Ser Gln Ile Leu	Asp Phe Pro Leu Arg	Leu Asn Thr Asp	Leu Glu	
	115	120	125	
Pro Glu Ala Arg Arg	Lys Arg Ile Val Glu	Thr Leu Arg Leu	Val Gly	
	130	135	140	
Leu Leu Pro Asp His	Val Ser Tyr Tyr Pro	His Met Leu Ala	Pro Gly	
	145	150	155	160
Gln Lys Gln Arg Leu	Gly Leu Ala Arg Ala	Leu Ile Leu Arg	Pro Lys	
	165	170	175	
Val Ile Ile Ala Asp	Glu Ala Leu Ala Ser	Leu Asp Met Ser	Met Arg	

180 185 190
 Ser Gln Leu Ile Asn Leu Met Leu Glu Leu Gln Glu Lys Gln Gly Ile
 195 200 205
 Ser Tyr Ile Tyr Val Thr Gln His Leu Gly Met Met Lys His Ile Ser
 210 215 220
 Asp Gln Val Leu Val Met His Gln Gly Glu Val Val Glu Arg Gly Ser
 225 230 235 240
 Thr Ala Asp Val Leu Ala Ser Pro Leu His Asp Leu Thr Lys Arg Leu
 245 250 255
 Ile Ala Gly His Phe Gly Glu Ala Leu Thr Ala Asp Ala Trp Arg Lys
 260 265 270
 Asp Arg
 275

<210> 6520

<211> 145

<212> PRT

<213> Enterobacter cloacae

<400> 6520

Ala Arg Leu Ser Ser Pro Phe Asn Pro Ala Arg Leu Asn Pro Val Ser
 1 5 10 15
 Gly Lys Val Ser Pro His Asn Gly Ile Asp Tyr Ser Met Pro Met Asn
 20 25 30
 Thr Lys Ile Val Ser Val Ile Asp Gly Lys Ile Thr Arg Ala Glu Tyr
 35 40 45
 Asn Ser Thr Met Gly Tyr Phe Val Glu Val Thr Gly Lys Ala Gly Val
 50 55 60
 Lys Thr Arg Tyr Leu His Leu Asn Lys Ile Leu Val Thr Lys Gly Ala
 65 70 75 80
 Arg Val Thr Arg Gly Gly Ala Ile Ala Leu Ser Gly Asn Ser Gly Arg
 85 90 95
 Ser Ser Gly Pro His Leu His Tyr Glu Leu Val Ile Asn Asn Asn Pro
 100 105 110
 Val Asn Ser Leu Ala Phe Arg Ala Ala Ala Pro Ala Asp Asn Lys Leu
 115 120 125
 Glu Gln His Ala Phe Ala His Ala Arg Asp Tyr Glu Arg Tyr Leu Asp
 130 135 140

145

<210> 6521

<211> 447

<212> PRT

<213> Enterobacter cloacae

<400> 6521

Pro Ser Gly Ala Tyr Ala Arg Cys Phe Asp Phe Leu Ala Glu Asn Cys
 1 5 10 15
 Met Ala Ser Leu Lys Ile Lys Tyr Ala Ala Ile Ile Ile Ser Ser Leu
 20 25 30
 Ile Ala Gly Gly Leu Ile Ser Val Thr Ala Trp Gln Tyr Val Asn Ser
 35 40 45
 Ala Gln Lys Thr Glu Lys Thr Glu Gln Lys Ala Pro Glu Arg Lys Val
 50 55 60
 Leu Phe Trp Tyr Asp Pro Met Lys Pro Asp Thr Lys Phe Asp Lys Pro
 65 70 75 80
 Gly Lys Ser Pro Phe Met Asp Met Asp Leu Val Pro Lys Tyr Ala Asp
 85 90 95
 Asp Ser Gly Asp Lys Ser Ser Gly Glu Ile Arg Ile Asp Pro Thr Gln
 100 105 110

Val Gln Asn Leu Gly Leu Lys Thr Gln Lys Val Thr Arg Gly Met Leu
 115 120 125
 Asn Tyr Ser Gln Thr Ile Pro Ala Asn Val Ser Tyr Asn Glu Tyr Gln
 130 135 140
 Phe Val Ile Val Gln Ala Arg Ser Asp Gly Phe Val Glu Lys Val Tyr
 145 150 155 160
 Pro Met Thr Ile Gly Asp His Val Lys Lys Gly Thr Pro Leu Ile Asp
 165 170 175
 Ile Thr Ile Pro Asp Trp Val Glu Ala Gln Ser Glu Phe Leu Leu Leu
 180 185 190
 Ser Ser Thr Gly Gly Thr Ser Thr Gln Ile Lys Gly Val Leu Glu Arg
 195 200 205
 Leu Arg Leu Ala Gly Met Pro Glu Glu Asp Ile Gln Arg Leu Arg Ser
 210 215 220
 Thr Arg Ser Ile Gln Thr Arg Phe Thr Ile Lys Ala Pro Ile Asp Gly
 225 230 235 240
 Val Ile Thr Ala Phe Asp Leu Arg Thr Gly Met Asn Ile Ser Lys Asp
 245 250 255
 Lys Val Val Ala Gln Ile Gln Gly Met Asp Pro Val Trp Ile Ser Ala
 260 265 270
 Ala Val Pro Glu Ser Ile Ala Tyr Leu Leu Lys Asp Thr Ser Gln Phe
 275 280 285
 Glu Ile Ser Val Pro Ala Tyr Pro Asp Lys Thr Phe His Val Glu Lys
 290 295 300
 Trp Asn Ile Leu Pro Ser Val Asp Gln Thr Thr Arg Thr Leu Gln Val
 305 310 315 320
 Arg Leu Gln Val Ser Asn Lys Asp Glu Phe Leu Lys Pro Gly Met Asn
 325 330 335
 Ala Tyr Leu Lys Leu Asn Thr Arg Ser Gln Glu Met Leu Leu Ile Pro
 340 345 350
 Ser Gln Ala Val Ile Asp Thr Gly Lys Glu Gln Arg Val Ile Thr Val
 355 360 365
 Asp Asp Glu Gly Lys Phe Val Pro Lys Gln Ile His Val Leu His Glu
 370 375 380
 Ser Gln Gln Gln Ser Gly Ile Gly Ser Gly Leu Asn Glu Gly Asp Thr
 385 390 395 400
 Val Val Val Ser Gly Leu Phe Leu Ile Asp Ser Glu Ala Asn Ile Thr
 405 410 415
 Gly Ala Leu Glu Arg Met Arg His Pro Glu Lys Thr Glu Ser Ser Met
 420 425 430
 Pro Ala Met Ser Asp Gln Pro Val Asn Met His Ser Gly His
 435 440 445

<210> 6522

<211> 832

<212> PRT

<213> Enterobacter cloacae

<400> 6522

His Thr Leu Lys Thr Glu Asp Ala Ser Val Cys Ile Arg Arg Val Thr
 1 5 10 15
 Val Lys Asn Asp Asn Ala Val Gln His Asn Asn Gln Thr Ala Ser Glu
 20 25 30
 Gln Thr Leu Ser Pro Asp Glu Gly His Val Leu His Lys Val Arg Asp
 35 40 45
 Pro Val Cys Gly Met Ala Ile Leu Pro Asp Arg Ala His Ser Ser Ile
 50 55 60
 Arg Tyr Gln Asp His Gln Leu Tyr Phe Cys Ser Ala Ser Cys Glu Ser
 65 70 75 80
 Lys Phe Lys Ala His Pro Asp Arg Asn Leu Thr Glu Asp Ala Ser Glu
 85 90 95

His	Ser	His	His	His	His	His	Asp	His	His	Glu	Val	Ser	Pro	Asp	Gln
			100					105					110		
Ile	Lys	Gln	Pro	His	His	Gln	Ala	Glu	Lys	Glu	Asn	Ser	Glu	Gly	Val
		115					120					125			
Trp	Thr	Cys	Pro	Met	His	Pro	Glu	Ile	Arg	Arg	Ser	Gly	Pro	Gly	Ser
		130				135					140				
Cys	Pro	Val	Cys	Gly	Met	Ala	Leu	Glu	Pro	Leu	Val	Ala	Thr	Ala	Ser
145					150					155					160
Thr	Gly	Pro	Ser	Asp	Glu	Leu	His	Asp	Met	Thr	Arg	Arg	Phe	Trp	Leu
				165				170						175	
Gly	Leu	Leu	Leu	Ala	Phe	Pro	Val	Leu	Val	Leu	Glu	Met	Gly	Ser	His
			180					185					190		
Leu	Phe	Pro	Glu	Leu	Arg	Asn	Thr	Val	Pro	Pro	Gln	Tyr	Asn	Thr	Trp
		195					200					205			
Leu	Gln	Leu	Leu	Leu	Ala	Ser	Pro	Val	Val	Leu	Trp	Cys	Gly	Trp	Pro
		210				215					220				
Phe	Phe	Ala	Arg	Ala	Gly	Met	Ser	Leu	Arg	Asn	Arg	Ser	Leu	Asn	Met
225					230					235					240
Phe	Thr	Leu	Val	Ala	Met	Gly	Thr	Gly	Val	Ala	Trp	Val	Tyr	Ser	Val
				245					250					255	
Ile	Ala	Thr	Val	Phe	Pro	Ser	Trp	Phe	Pro	Ala	Ser	Phe	Arg	Asn	Met
			260					265						270	
Asp	Gly	Leu	Val	Ala	Val	Tyr	Phe	Glu	Ala	Ala	Ala	Val	Ile	Thr	Val
		275					280					285			
Leu	Val	Leu	Leu	Gly	Gln	Val	Leu	Glu	Leu	Arg	Ala	Arg	Glu	Gln	Thr
		290				295					300				
Ser	Gly	Ala	Ile	Thr	Ala	Leu	Leu	Asn	Leu	Ala	Pro	Lys	Thr	Ala	Arg
305					310					315					320
Arg	Leu	Asp	His	Asp	Gly	His	Glu	Thr	Asp	Ile	Asn	Ala	Glu	Asp	Val
				325					330					335	
Leu	Pro	Gly	Asp	Lys	Leu	Arg	Ile	Arg	Pro	Gly	Glu	Ser	Ile	Pro	Val
			340					345					350		
Asp	Gly	Ile	Val	Ile	Glu	Gly	Lys	Thr	Thr	Val	Asp	Glu	Ser	Met	Val
		355					360					365			
Thr	Gly	Glu	Ser	Met	Pro	Val	Thr	Lys	Thr	Glu	Gly	Asp	Pro	Val	Ile
		370				375						380			
Gly	Gly	Thr	Ile	Asn	Gln	Thr	Gly	Ser	Leu	Ile	Ile	Arg	Ala	Glu	Lys
385					390					395					400
Val	Gly	Asp	Glu	Thr	Met	Leu	Ser	Arg	Ile	Val	Gln	Met	Val	Ala	Asp
				405					410					415	
Ala	Gln	Arg	Ser	Arg	Ala	Pro	Ile	Gln	Arg	Met	Ala	Asp	Ser	Val	Ser
			420					425					430		
Gly	Trp	Phe	Val	Pro	Leu	Val	Ile	Leu	Ile	Ala	Val	Val	Ala	Phe	Val
		435					440						445		
Ile	Trp	Ser	Val	Trp	Gly	Pro	Glu	Pro	Arg	Met	Ala	His	Gly	Leu	Ile
		450				455					460				
Ala	Ala	Val	Ser	Val	Leu	Ile	Ile	Ala	Cys	Pro	Cys	Ala	Leu	Gly	Leu
465					470				475						480
Ala	Thr	Pro	Met	Ser	Ile	Met	Val	Gly	Val	Gly	Lys	Gly	Ala	Gln	Ala
				485					490					495	
Gly	Val	Leu	Ile	Arg	Asn	Ala	Glu	Ala	Leu	Glu	Arg	Leu	Glu	Lys	Val
			500					505					510		
Asp	Thr	Leu	Val	Val	Asp	Lys	Thr	Gly	Thr	Leu	Thr	Glu	Gly	Ser	Pro
		515					520					525			
Thr	Val	Thr	Gly	Ile	Ile	Ser	Leu	Asn	Pro	Gly	Gly	Glu	Thr	Ser	Leu
		530				535					540				
Leu	Arg	Val	Thr	Ala	Ala	Val	Glu	Lys	Gly	Ser	Gln	His	Pro	Leu	Gly
545					550					555					560
Met	Ala	Val	Val	Lys	Ala	Ala	Gln	Glu	Lys	Gly	Ile	Ala	Ile	Pro	Ala
				565					570					575	
Val	Thr	His	Phe	Asp	Ala	Pro	Ser	Gly	Lys	Gly	Val	Ser	Gly	Asp	Val

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<210> 6523
<211> 191
<212> PRT
<213> Enterobacter cloacae
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Gly 1	Ser	Val	Phe	Gly 5	Ser	Gly	Pro	Phe	His 10	Pro	Val	Val	Lys	Arg	Arg
Gly	Ser	Gln	Leu	Lys 20	Ala	Ala	Asp	Ala	Asn 25	Ile	Gly	Ala	Pro	Arg	Ala
Ala	Phe	Phe	Pro	Ser 35	Ile	Thr	Leu	Thr	Ser 40	Gly	Leu	Ser	Ala	Ser	Ser
Thr	Glu	Leu	Ser	Ser 50	Leu	Phe	Thr	Ser	Gly 55	Ser	Gly	Met	Trp	Asn	Phe
Ile 65	Pro	Lys	Ile	Glu 70	Ile	Pro	Ile	Phe	Asn 75	Ala	Gly	Arg	Asn	Lys	Ala
Asn	Leu	Lys	Leu	Ala 85	Glu	Ile	Arg	Gln	Gln 90	Gln	Ser	Val	Val	Asn	Tyr
Glu	Gln	Lys	Ile	Gln 100	Ser	Ala	Phe	Lys	Asp 105	Val	Ser	Asp	Thr	Leu	Ala
Leu	Arg	Asp	Ser	Leu 115	Ser	Gln	Gln	Leu	Glu 120	Ser	Gln	Gln	Arg	Tyr	Leu
Asp	Ser	Leu	Gln	Ile 130	Thr	Leu	Gln	Arg	Ala 135	Arg	Gly	Leu	Tyr	Ala	Ser
Gly 145	Ala	Val	Ser	Tyr 150	Ile	Glu	Val	Leu	Asp 155	Ala	Glu	Arg	Ser	Leu	Phe
Ala	Thr	Gln	Gln	Thr 165	Ile	Leu	Asp	Leu	Thr 170	Tyr	Ser	Arg	Gln	Val	Asn
Glu	Ile	Asn	Leu	Phe 175	Thr	Ala	Leu	Gly	Gly	Gly	Trp	Val	Glu		

180

185

190

<210> 6524

<211> 127

<212> PRT

<213> Enterobacter cloacae

<400> 6524

Ile	Tyr	Leu	Ile	Asn	Gln	Glu	Ile	Lys	Met	Arg	Asn	Ser	Leu	Lys	Ala
1				5					10					15	
Val	Leu	Phe	Gly	Ala	Phe	Ser	Val	Met	Phe	Ser	Ala	Gly	Leu	His	Ala
			20					25					30		
Glu	Thr	His	Gln	His	Gly	Asp	Met	Asn	Thr	Ala	Ser	Asp	Ala	Ser	Val
		35					40					45			
Gln	Gln	Val	Ile	Lys	Gly	Thr	Gly	Val	Val	Lys	Asp	Ile	Asp	Met	Asn
		50				55					60				
Thr	Lys	Lys	Ile	Thr	Ile	Ser	His	Glu	Ala	Ile	Pro	Ala	Val	Gly	Trp
65					70					75				80	
Pro	Ala	Met	Thr	Met	Arg	Phe	Thr	Phe	Val	Asn	Ala	Asp	Asp	Ala	Ile
				85					90					95	
Asn	Ala	Leu	Lys	Thr	Gly	Asn	His	Val	Asp	Phe	Ser	Phe	Ile	Gln	Gln
			100					105					110		
Gly	Asn	Ile	Ser	Leu	Leu	Lys	Ser	Ile	Asn	Val	Thr	Gln	Ser		
		115					120					125			

<210> 6525

<211> 1059

<212> PRT

<213> Enterobacter cloacae

<400> 6525

Ile	Cys	Ile	Gln	Gly	Thr	Glu	Glu	Thr	Thr	Met	Ile	Glu	Trp	Ile	Ile
1				5					10					15	
Arg	Arg	Ser	Val	Ala	Asn	Arg	Phe	Leu	Val	Met	Met	Gly	Ala	Leu	Phe
			20					25					30		
Leu	Ser	Ile	Trp	Gly	Thr	Trp	Thr	Ile	Ile	Asn	Thr	Pro	Val	Asp	Ala
		35					40					45			
Leu	Pro	Asp	Leu	Ser	Asp	Val	Gln	Val	Ile	Ile	Lys	Thr	Ser	Tyr	Pro
		50				55					60				
Gly	Gln	Ala	Pro	Gln	Ile	Val	Glu	Asn	Gln	Val	Thr	Tyr	Pro	Leu	Thr
65					70					75				80	
Thr	Thr	Met	Leu	Ser	Val	Pro	Gly	Ala	Lys	Thr	Val	Arg	Gly	Phe	Ser
				85					90					95	
Gln	Phe	Gly	Asp	Ser	Tyr	Val	Tyr	Val	Ile	Phe	Glu	Asp	Gly	Thr	Asp
			100					105					110		
Leu	Tyr	Trp	Ala	Arg	Ser	Arg	Val	Leu	Glu	Tyr	Leu	Asn	Gln	Val	Gln
		115					120					125			
Gly	Lys	Leu	Pro	Ala	Gly	Val	Ser	Ser	Glu	Ile	Gly	Pro	Asp	Ala	Thr
		130				135					140				
Gly	Val	Gly	Trp	Ile	Phe	Glu	Tyr	Ala	Leu	Val	Asp	Arg	Ser	Gly	Lys
145					150					155				160	
His	Asp	Leu	Ser	Glu	Leu	Arg	Ser	Leu	Gln	Asp	Trp	Phe	Leu	Lys	Phe
				165					170					175	
Glu	Leu	Lys	Thr	Ile	Pro	Asn	Val	Ala	Glu	Val	Ala	Ser	Val	Gly	Gly
			180					185					190		
Val	Val	Lys	Gln	Tyr	Gln	Ile	Gln	Val	Asn	Pro	Val	Lys	Leu	Ser	Gln
		195					200					205			
Tyr	Gly	Ile	Ser	Leu	Pro	Glu	Val	Lys	Gln	Ala	Leu	Glu	Ser	Ser	Asn
		210				215					220				
Gln	Glu	Ala	Gly	Gly	Ser	Ser	Val	Glu	Met	Ala	Glu	Ala	Glu	Tyr	Met
225					230					235					240

Val	Arg	Ala	Ser	Gly	Tyr	Leu	Gln	Ser	Ile	Asp	Asp	Phe	Asn	Asn	Ile	
				245					250					255		
Val	Leu	Lys	Thr	Gly	Glu	Asn	Gly	Val	Pro	Val	Tyr	Leu	Arg	Asp	Val	
			260					265					270			
Ala	Arg	Val	Gln	Thr	Gly	Pro	Glu	Met	Arg	Arg	Gly	Ile	Ala	Glu	Leu	
		275					280					285				
Asn	Gly	Gln	Gly	Glu	Val	Ala	Gly	Gly	Val	Val	Ile	Leu	Arg	Ser	Gly	
	290					295					300					
Lys	Asn	Ala	Arg	Asp	Val	Ile	Thr	Ala	Val	Arg	Asp	Lys	Leu	Glu	Thr	
305					310					315					320	
Leu	Lys	Ala	Ser	Leu	Pro	Glu	Gly	Val	Glu	Ile	Val	Thr	Thr	Tyr	Asp	
			325						330					335		
Arg	Ser	Gln	Leu	Ile	Asp	Arg	Ala	Ile	Asp	Asn	Leu	Ser	Ser	Lys	Leu	
			340					345					350			
Leu	Glu	Glu	Phe	Ile	Val	Val	Ala	Ile	Val	Cys	Ala	Leu	Phe	Leu	Trp	
		355					360					365				
His	Val	Arg	Ser	Ala	Leu	Val	Ala	Ile	Ile	Ser	Leu	Pro	Leu	Gly	Leu	
	370					375					380					
Cys	Ile	Ala	Phe	Ile	Val	Met	His	Phe	Gln	Gly	Leu	Asn	Ala	Asn	Ile	
385					390					395					400	
Met	Ser	Leu	Gly	Gly	Ile	Ala	Ile	Ala	Val	Gly	Ala	Met	Val	Asp	Ala	
			405						410					415		
Ala	Ile	Val	Met	Ile	Glu	Asn	Ala	His	Lys	Arg	Leu	Glu	Glu	Trp	Asp	
			420					425					430			
His	Gln	His	Pro	Gly	Glu	Gln	Ile	Asp	Asn	Ala	Thr	Arg	Trp	Lys	Val	
	435						440					445				
Ile	Thr	Asp	Ala	Ser	Val	Glu	Val	Gly	Pro	Ala	Leu	Phe	Ile	Ser	Leu	
	450					455					460					
Leu	Ile	Ile	Thr	Leu	Ser	Phe	Ile	Pro	Ile	Phe	Thr	Leu	Glu	Gly	Gln	
465					470					475					480	
Glu	Gly	Arg	Leu	Phe	Gly	Pro	Leu	Ala	Phe	Thr	Lys	Thr	Tyr	Ser	Met	
			485						490					495		
Ala	Gly	Ala	Ala	Ala	Leu	Ala	Ile	Ile	Val	Ile	Pro	Ile	Leu	Met	Gly	
			500					505					510			
Phe	Trp	Ile	Arg	Gly	Lys	Ile	Pro	Ala	Glu	Thr	Ser	Asn	Pro	Leu	Asn	
	515						520					525				
Arg	Val	Leu	Ile	Lys	Ala	Tyr	His	Pro	Leu	Leu	Leu	Arg	Val	Leu	His	
	530					535					540					
Trp	Pro	Lys	Thr	Thr	Leu	Leu	Val	Ala	Ala	Leu	Ser	Ile	Phe	Thr	Val	
545					550					555					560	
Ile	Trp	Pro	Leu	Ser	Gln	Val	Gly	Gly	Glu	Phe	Leu	Pro	Lys	Ile	Asn	
			565						570					575		
Glu	Gly	Asp	Leu	Leu	Tyr	Met	Pro	Ser	Thr	Leu	Pro	Gly	Val	Ser	Pro	
		580						585					590			
Ala	Glu	Ala	Ala	Ala	Leu	Leu	Gln	Thr	Thr	Asp	Lys	Leu	Ile	Lys	Ser	
		595					600					605				
Val	Pro	Glu	Val	Ala	Ser	Val	Phe	Gly	Lys	Thr	Gly	Lys	Ala	Glu	Thr	
	610					615					620					
Ala	Thr	Asp	Ser	Ala	Pro	Leu	Glu	Met	Val	Glu	Thr	Thr	Ile	Gln	Leu	
625					630					635					640	
Lys	Pro	Glu	Asp	Gln	Trp	Arg	Pro	Gly	Met	Thr	Ile	Asp	Lys	Ile	Ile	
			645						650					655		
Glu	Glu	Leu	Asp	Arg	Thr	Val	Arg	Leu	Pro	Gly	Leu	Ala	Asn	Leu	Trp	
		660						665					670			
Val	Pro	Pro	Ile	Arg	Asn	Arg	Ile	Asp	Met	Leu	Ser	Thr	Gly	Ile	Lys	
		675					680					685				
Ser	Pro	Ile	Gly	Ile	Lys	Val	Ser	Gly	Thr	Val	Leu	Ser	Asp	Ile	Asp	
	690					695					700					
Ala	Thr	Ala	Gln	Ser	Ile	Glu	Ala	Val	Ala	Lys	Thr	Val	Pro	Gly	Val	
705					710					715					720	
Val	Ser	Ala	Leu	Ala	Glu	Arg	Leu	Glu	Gly	Gly	Arg	Tyr	Ile	Asp	Val	

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              725              730              735
Asp Ile Asn Arg Glu Lys Ala Ser Arg Tyr Gly Met Thr Val Gly Asp
              740              745              750
Val Gln Leu Phe Ile Ser Ser Ala Ile Gly Gly Ala Thr Val Gly Glu
              755              760              765
Thr Val Glu Gly Val Ala Arg Tyr Pro Ile Asn Ile Arg Tyr Pro Gln
              770              775              780
Asp Tyr Arg Asn Ser Pro Gln Ala Leu Lys Gln Met Pro Ile Leu Thr
785              790              795              800
Pro Met Lys Gln Gln Ile Thr Leu Gly Asp Val Ala Asp Ile Lys Val
              805              810              815
Val Ser Gly Pro Thr Met Leu Lys Thr Glu Asn Ala Arg Pro Ala Ser
              820              825              830
Trp Ile Tyr Ile Asp Ala Arg Gly Arg Asp Met Val Ser Val Val Asn
              835              840              845
Asp Ile Lys Thr Ala Ile Ser Gln Lys Val Lys Leu Arg Pro Gly Thr
              850              855              860
Ser Val Ser Phe Ser Gly Gln Phe Glu Leu Leu Glu His Ala Asn Lys
865              870              875              880
Lys Leu Lys Leu Met Val Pro Met Thr Val Met Ile Ile Phe Ile Leu
              885              890              895
Leu Tyr Leu Ala Phe Arg Arg Val Asp Glu Ala Leu Leu Ile Leu Met
              900              905              910
Ser Leu Pro Phe Ala Leu Val Gly Gly Ile Trp Phe Leu Tyr Trp Gln
              915              920              925
Gly Phe His Met Ser Val Ala Thr Gly Thr Gly Phe Ile Ala Leu Ala
              930              935              940
Gly Val Ala Ala Glu Phe Gly Val Val Met Leu Met Tyr Leu Arg His
945              950              955              960
Ala Ile Glu Ala His Pro Glu Leu Ser Arg Lys Glu Thr Phe Thr Pro
              965              970              975
Glu Gly Leu Asp Glu Ala Leu Tyr His Gly Ala Val Leu Arg Val Arg
              980              985              990
Pro Lys Ala Met Thr Val Ala Val Ile Ile Ala Gly Leu Leu Pro Ile
              995              1000              1005
Leu Trp Gly Thr Gly Ala Gly Ser Glu Val Met Ser Arg Ile Ala Ala
              1010              1015              1020
Pro Met Ile Gly Gly Met Ile Thr Ala Pro Leu Leu Ser Leu Phe Ile
1025              1030              1035              1040
Ile Pro Ala Ala Tyr Lys Leu Ile Trp Leu Arg Arg His Lys Lys Ser
              1045              1050              1055
Val Ser

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<210> 6526

<211> 134

<212> PRT

<213> Enterobacter cloacae

<400> 6526

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Leu Pro Pro Leu Arg Gly Leu Ala Thr Arg Gly Glu Asp Asp Asp Gly
1              5              10              15
Ala Lys Cys Gly Arg Cys Gly His Glu Leu Phe Asp Gly Asp Val Ile
              20              25              30
Asn Ala Thr Gly Ala Thr Leu Asp Lys Leu Leu Lys Asp Asp Leu Pro
              35              40              45
Val Val Val Asp Phe Trp Ala Pro Trp Cys Gly Pro Cys Arg Asn Phe
              50              55              60
Ala Pro Ile Phe Glu Asp Val Ala Glu Glu Arg Ser Gly Lys Met Arg
65              70              75              80
Phe Val Lys Val Asn Thr Glu Ala Glu Arg Glu Leu Ser Ala Arg Phe

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85 90 95
 Arg Ile Arg Ser Ile Pro Thr Ile Met Ile Phe Lys Asn Gly Glu Val
 100 105 110
 Ile Asp Met Leu Asn Gly Ala Val Pro Lys Ala Pro Phe Asp Ser Trp
 115 120 125
 Leu Asn Glu Ser Leu
 130

<210> 6527

<211> 905

<212> PRT

<213> Enterobacter cloacae

<400> 6527

Gly Arg Lys Arg Leu Lys Ser Ser Gly Arg Leu His Ser Gln Glu Ala
 1 5 10 15
 Cys Met Ser Gln Arg Gly Leu Glu Ala Leu Leu Arg Pro Lys Ser Ile
 20 25 30
 Ala Val Ile Gly Ala Ser Met Lys Pro Asp Arg Ala Gly Tyr Leu Met
 35 40 45
 Met Arg Asn Leu Leu Ala Gly Gly Phe Asn Gly Pro Val Met Pro Val
 50 55 60
 Thr Pro Ala Tyr Lys Ala Val Gln Gly Val Leu Ala Trp Pro Asp Val
 65 70 75 80
 Gln Ser Leu Pro Phe Val Pro Asp Leu Ala Val Leu Cys Thr His Ala
 85 90 95
 Lys Arg Asn Leu Glu Leu Leu Glu Ser Leu Gly Gln Lys Gly Cys Lys
 100 105 110
 Thr Cys Ile Ile Leu Ser Ser Pro Glu Gln Gln Pro Glu Leu Leu
 115 120 125
 Ala Cys Ala Ser Arg Tyr Gln Met Arg Ile Leu Gly Pro Asn Ser Leu
 130 135 140
 Gly Leu Leu Ala Pro Trp Gln Gly Leu Asn Ala Ser Phe Ser Pro Val
 145 150 155 160
 Pro Ile Arg Lys Gly Lys Leu Ala Phe Ile Ser Gln Ser Ala Ala Val
 165 170 175
 Ser Asn Thr Ile Leu Asp Trp Ala Gln Gln Arg Glu Met Gly Phe Ser
 180 185 190
 Tyr Phe Ile Ala Leu Gly Asp Ser Leu Asp Ile Asp Val Asp Glu Leu
 195 200 205
 Leu Asp Phe Leu Ala Arg Asp Ser Lys Thr Ser Ala Ile Leu Leu Tyr
 210 215 220
 Leu Glu His Leu Ser Asp Ala Arg Arg Phe Val Ser Ala Ser Arg Ser
 225 230 235 240
 Ala Ser Arg Asn Lys Pro Ile Leu Val Ile Lys Ser Gly Arg Ser Pro
 245 250 255
 Ala Ala Gln Arg Leu Leu His Ser Arg Ser Gly Met Asp Pro Ala Trp
 260 265 270
 Asp Ala Ala Ile Gln Arg Ala Gly Leu Leu Arg Val Gln Asp Thr His
 275 280 285
 Glu Leu Phe Ser Ala Val Glu Thr Leu Ser His Met Arg Pro Leu Arg
 290 295 300
 Gly Glu Lys Leu Met Ile Val Ser Asn Gly Ala Ala Pro Ala Ala Leu
 305 310 315 320
 Ala Leu Asp Glu Leu Trp Leu Arg Asn Gly Lys Leu Ala Thr Leu Gly
 325 330 335
 Glu Glu Thr Leu Gln Arg Leu Arg Asp Ala Leu Pro Gly Ser Val Val
 340 345 350
 Pro Asp Asn Pro Leu Asp Leu Arg Asp Asp Ala Ser Ser Asp Arg Tyr
 355 360 365
 Ile Lys Ala Ile Thr Ile Leu Leu Asp Ser Gln Asp Phe Asp Ala Leu

370	375	380
Met Ile Ile His Ser Pro Ser Ala Val Ala Pro Gly Ser Glu Ser Ala		
385	390	395
Arg Ala Leu Ile Glu Ala Val Arg Asn His Pro Arg Gly Lys Tyr Val		400
	405	410
Thr Leu Leu Thr Asn Trp Cys Gly Glu Phe Ser Ser Gln Glu Ala Arg		415
	420	425
Arg Leu Phe Ser Glu Ala Gly Leu Pro Thr Tyr Arg Thr Pro Glu Gly		430
	435	440
Thr Ile Thr Ala Phe Met His Met Val Glu Tyr Arg Arg Asn Gln Lys		445
	450	455
Gln Leu Arg Glu Thr Pro Ala Leu Pro Gly Asn Leu Thr Ala Asn Ser		460
465	470	475
Val Asp Val His Arg Leu Leu Gln Gln Ala Ile Glu Glu Gly Ala Thr		480
	485	490
Ser Leu Asp Thr His Glu Val Gln Pro Ile Leu Gly Ser Tyr Gly Met		495
	500	505
Gln Thr Leu Pro Thr Trp Ile Ala Gly Asp Ser Ala Glu Ala Val His		510
	515	520
Ile Ala Glu Gln Ile Gly Tyr Pro Val Ala Leu Lys Leu Arg Ser Pro		525
	530	535
Asp Ile Pro His Lys Ser Asp Val Gln Gly Val Met Leu Tyr Leu Arg		540
545	550	555
Thr Ala Thr Glu Val Gln Gln Ala Ala Asp Ala Ile Ile Asp Arg Val		560
	565	570
Lys Met Thr Trp Pro Gln Ala Arg Ile His Gly Leu Leu Val Gln Ser		575
	580	585
Met Ala Asn Arg Ala Gly Ala Gln Glu Leu Arg Val Val Glu His		590
	595	600
Asp Pro Val Phe Gly Pro Leu Ile Met Leu Gly Glu Gly Val Glu		605
	610	615
Trp Arg Pro Glu Glu Gln Ala Val Val Ala Leu Pro Pro Leu Asn Met		620
625	630	635
Asn Leu Ala Arg Tyr Leu Ile Ile Gln Ala Ile Lys Ser Lys Lys Ile		640
	645	650
Arg Gly Arg Ser Ala Leu Arg Pro Leu Asp Ile Ala Gly Leu Ser Gln		655
	660	665
Phe Leu Val Lys Val Ser Asn Leu Ile Val Asp Cys Ala Glu Ile Gln		670
	675	680
Arg Leu Asp Ile His Pro Leu Leu Ala Ser Gly Asn Glu Phe Thr Ala		685
	690	695
Leu Asp Val Thr Leu Asp Ile Ala Pro Tyr Ile Gly Asp Pro Glu Ser		700
705	710	715
Arg Leu Ala Ile Arg Pro Tyr Pro Leu His Leu Glu Glu Trp Val Glu		720
	725	730
Met Lys Asn Gly Glu Arg Ala Leu Phe Arg Pro Ile Leu Pro Glu Asp		735
	740	745
Glu Pro Leu Leu Arg Ala Phe Ile Ser Gln Val Thr Lys Glu Asp Leu		750
	755	760
Tyr Tyr Arg Tyr Phe Ser Glu Ile Asn Glu Phe Thr His Asp Asp Leu		765
	770	775
Ala Asn Met Thr Gln Ile Asp Tyr Asp Arg Glu Met Ala Ile Val Ala		780
785	790	795
Val Arg Arg Ser Gly Ala Gly Glu Glu Ile Leu Gly Val Thr Arg Ala		800
	805	810
Ile Ser Asp Pro Asp Asn Val Asp Ala Glu Phe Ala Val Leu Val Arg		815
	820	825
Ser Asp Leu Lys Gly Leu Gly Leu Gly Arg Arg Leu Leu Glu Lys Leu		830
	835	840
Ile Gly Tyr Thr Arg Asp His Gly Leu Ser Arg Leu Asn Gly Ile Thr		845
850	855	860

Met Pro Asn Asn Arg Gly Met Val Thr Leu Ala Arg Lys Leu Gly Phe
 865 870 875 880
 Asp Val Asp Ile Gln Leu Asp Glu Gly Ile Val Ser Leu Ser Leu Ser
 885 890 895
 Leu Thr Ser Thr Asp Lys Gln Glu
 900 905

<210> 6528

<211> 261

<212> PRT

<213> Enterobacter cloacae

<400> 6528

Thr Asn Pro Cys Asn Ile Arg Gly Ala Tyr Leu Val Pro Arg Ser Leu
 1 5 10 15
 Leu Cys Glu Asn Gly Val Phe Pro Ala Phe Ser Pro Met Thr Asp Asn
 20 25 30
 Ala Val Leu Gln Leu Arg Ala Glu Arg Leu Ala Arg Ala Thr Arg Pro
 35 40 45
 Phe Leu Ala Arg Gly Asn Arg Ile Arg Arg Cys Gln Arg Cys Leu Leu
 50 55 60
 Pro Leu Lys Val Cys Leu Cys Glu Thr Leu Ala Pro Ser Glu Ala Lys
 65 70 75 80
 Ser Arg Phe Cys Leu Val Met Phe Asp Thr Glu Pro Met Lys Pro Ser
 85 90 95
 Asn Thr Gly Arg Leu Ile Ala Asp Ile Leu Pro Asn Thr Ala Ala Phe
 100 105 110
 Gln Trp Ser Arg Thr Glu Pro Pro Gln Ala Leu Leu Asp Leu Val Ala
 115 120 125
 Ser Pro Asp Tyr Gln Pro Met Val Val Phe Pro Ala Ser Tyr Ala Gly
 130 135 140
 Glu Gln Arg Gln Val Leu Thr Ala Pro Pro Ser Gly Lys Pro Pro Leu
 145 150 155 160
 Phe Ile Met Leu Asp Gly Thr Trp Thr Glu Ala Arg Lys Met Phe Arg
 165 170 175
 Lys Ser Pro Tyr Leu Asp Ala Leu Pro Val Ile Ser Val Asp Leu Ser
 180 185 190
 Arg Val Ser Ala Tyr Arg Leu Arg Glu Ala His Ala Asp Gly Gln Tyr
 195 200 205
 Cys Thr Ala Glu Val Ala Ile Ala Leu Leu Asp Leu Ala Gly Asp Thr
 210 215 220
 Gln Ala Ala Gly Ala Leu Gly Ser His Phe Ser Cys Phe Arg Glu Arg
 225 230 235 240
 Tyr Leu Ala Gly Lys Thr Val His Lys Gly Ser Val Thr Ala Thr Glu
 245 250 255
 Ala Glu Ser Val
 260

<210> 6529

<211> 459

<212> PRT

<213> Enterobacter cloacae

<400> 6529

Thr Glu Lys Lys Arg Thr Val Met Leu Ser Lys Phe Lys Arg Asn Lys
 1 5 10 15
 His Gln Gln His Leu Ala Gln Leu Pro Lys Ile Ser Gln Ser Val Asp
 20 25 30
 Asp Val Glu Phe Phe Tyr Ala Pro Ala His Phe Arg Glu Thr Leu Leu
 35 40 45
 Glu Lys Ile Ala Ser Ala Thr Arg Arg Ile Cys Ile Val Ala Leu Tyr

50	55	60
Leu Glu Gln Asp Glu Gly Gly Arg Ala Ile Leu Asn Ala Leu Tyr Glu		
65	70	75
Ala Lys Arg Gln Arg Pro Glu Leu Asp Val Arg Val Leu Val Asp Trp		80
	85	90
His Arg Ala Gln Arg Gly Arg Ile Gly Ala Ala Ala Ser Asn Thr Asn		95
	100	105
Ala Asp Trp Tyr Cys Arg Thr Ala Gln Glu Asn Pro Gly Ile Asp Ile		110
	115	120
Pro Val Tyr Gly Val Pro Val Asn Thr Arg Glu Ala Leu Gly Val Leu		125
	130	135
His Phe Lys Gly Phe Ile Ile Asp Asp Ser Val Leu Tyr Ser Gly Ala		140
145	150	155
Ser Leu Asn Asp Val Tyr Leu His Gln Leu Asp Lys Tyr Arg Tyr Asp		160
	165	170
Arg Tyr His Leu Ile Arg Asn Pro Gln Met Ala Asp Ile Met Phe Asn		175
	180	185
Trp Val Asp Lys Asn Leu Val His Gly Arg Gly Val His Arg Leu Asp		190
	195	200
Asp Pro His Arg Pro Lys Ser Pro Glu Ile Lys Asn Asp Val Arg Ser		205
	210	215
Phe Arg Gln Glu Leu Arg Asp Ala Val Tyr Arg Phe Gln Gly Asp Ala		220
225	230	235
Ser Asn Glu Glu Leu Ser Val Thr Pro Leu Val Gly Leu Gly Lys Ser		240
	245	250
Ser Leu Leu Asn Lys Thr Ile Phe His Leu Met Pro Cys Ala Glu His		255
	260	265
Lys Leu Thr Ile Cys Thr Pro Tyr Phe Asn Leu Pro Ala Val Leu Val		270
	275	280
Arg Asn Ile Ile Gln Leu Leu Arg Asp Gly Lys Lys Val Glu Ile Ile		285
	290	295
Val Gly Asp Lys Thr Ala Asn Asp Phe Phe Ile Pro Glu Asp Gln Pro		300
305	310	315
Phe Lys Ile Ile Gly Ala Leu Pro Tyr Leu Tyr Glu Ile Asn Leu Arg		320
	325	330
Arg Phe Leu Ser Arg Leu Gln Tyr Tyr Val Asn Thr Asp Gln Leu Val		335
	340	345
Val Arg Leu Trp Lys Asp Glu Asp Asn Ser Tyr His Leu Lys Gly Ile		350
	355	360
Trp Val Asp Asp Glu Trp Met Leu Leu Thr Gly Asn Asn Leu Asn Pro		365
	370	375
Arg Ala Trp Arg Leu Asp Leu Glu Asn Ala Ile Leu Ile His Asp Pro		380
385	390	395
Gln His Ala Leu Ala Ala Lys Arg Asp Arg Glu Leu Glu Leu Ile Arg		400
	405	410
Thr His Thr Thr Val Val Arg His Tyr Arg Asp Leu Gln Ser Ile Ala		415
	420	425
Asp Tyr Pro Val Lys Val Arg Lys Leu Ile Arg Arg Leu Arg Arg Ile		430
	435	440
Arg Ile Asp Arg Leu Ile Ser Arg Ile Leu		445
450	455	

<210> 6530

<211> 141

<212> PRT

<213> Enterobacter cloacae

<400> 6530

Phe Ala Val Tyr Val Gly Ser Val Ser Thr Ala Ser Ser Ala Ala Phe		
1	5	10
Cys Asn Thr Arg Ala Leu Ser Ser Thr Gly Leu Phe Leu Trp Ser Leu		15

	20		25		30
Leu Met Arg Thr Pro Phe Leu Ile Pro Leu Phe Leu Thr Gly Cys					
35			40		45
Ser His Met Ala Asn Asp Asn Trp Ser Gly Gln Asp Lys Ala Gln His					
50			55		60
Phe Leu Ala Ser Ala Met Leu Ser Ala Ala Gly Asn Glu Tyr Ala Leu					
65			70		75
His Gln Gly Tyr Ser Arg Asp Arg Ser Ala Thr Met Gly Leu Met Phe					
	85			90	95
Ser Ile Ser Leu Gly Ala Ser Lys Glu Leu Trp Asp Ser Arg Pro Ser					
	100			105	110
Gly Ser Gly Trp Ser Trp Lys Asp Phe Ala Trp Asp Val Ala Gly Ala					
	115			120	125
Thr Thr Gly Tyr Ala Val Trp Gln Met Ala His Tyr					
130			135		140

<210> 6531

<211> 459

<212> PRT

<213> Enterobacter cloacae

<400> 6531

Arg Phe Val Leu Asn Pro Val Leu Leu Phe Val Gly Asn Gly Pro Gln					
1		5		10	15
Cys Glu Thr Gly Asp Phe Lys Met Thr Glu Thr Val Ala Ser Ala Asp					
	20		25		30
Thr Asp Asn Thr Ser Leu Ala Gly Lys Asp Thr Arg Arg Arg Val Trp					
	35		40		45
Ala Ile Val Gly Ala Ser Ser Gly Asn Leu Val Glu Trp Phe Asp Phe					
	50		55		60
Tyr Val Tyr Ser Phe Cys Ser Leu Tyr Phe Ala His Ile Phe Phe Pro					
65		70		75	80
Ser Gly Asn Thr Thr Thr Gln Leu Leu Gln Thr Ala Gly Val Phe Ala					
	85		90		95
Ala Gly Phe Leu Met Arg Pro Ile Gly Gly Trp Leu Phe Gly Arg Ile					
	100		105		110
Ala Asp Arg Lys Gly Arg Lys Thr Ser Met Leu Ile Ser Val Cys Met					
	115		120		125
Met Cys Val Gly Ser Leu Val Ile Ala Cys Leu Pro Gly Tyr Asp Thr					
	130		135		140
Ile Gly Thr Trp Ala Pro Ala Leu Leu Leu Leu Ala Arg Leu Phe Gln					
145		150		155	160
Gly Leu Ser Val Gly Gly Glu Tyr Gly Thr Ser Ala Thr Tyr Met Ser					
	165		170		175
Glu Val Ala Val Glu Gly Arg Lys Gly Phe Tyr Ala Ser Phe Gln Tyr					
	180		185		190
Val Thr Leu Ile Gly Gly Gln Leu Leu Ala Leu Leu Val Val Val Ile					
	195		200		205
Leu Gln Gln Ile Leu Ser Asp Glu Asp Leu Arg Ala Trp Gly Trp Arg					
	210		215		220
Ile Pro Phe Ala Leu Gly Ala Ala Leu Ala Val Val Ala Leu Trp Leu					
225		230		235	240
Arg Arg Gln Leu Asp Glu Thr Ser Gln Gln Glu Val Arg Ala Leu Lys					
	245		250		255
Glu Ala Gly Ser Met Lys Gly Leu Trp Arg Asn Arg Lys Ala Phe Leu					
	260		265		270
Met Val Leu Gly Phe Thr Ala Ala Gly Ser Leu Ser Phe Tyr Thr Phe					
	275		280		285
Thr Thr Tyr Met Gln Lys Tyr Leu Val Asn Thr Thr Gly Met His Ala					
	290		295		300
Asn Val Ala Ser Val Val Met Thr Val Ala Leu Leu Val Phe Met Leu					

305 310 315 320
 Ile Gln Pro Ile Val Gly Ala Leu Ser Asp Lys Ile Gly Arg Arg Thr
 325 330 335
 Ser Met Leu Ile Phe Gly Gly Met Leu Thr Leu Gly Thr Val Pro Leu
 340 345 350
 Leu Thr Ala Leu Gln His Thr Thr Ser Pro Tyr Ala Ala Phe Ala Leu
 355 360 365
 Ile Met Val Ala Leu Ile Ile Ile Ser Phe Tyr Thr Ala Ile Ser Gly
 370 375 380
 Ile Leu Lys Ala Glu Met Phe Pro Ala Gln Val Arg Ala Leu Gly Val
 385 390 395 400
 Gly Leu Ser Tyr Ala Val Ala Asn Ala Leu Phe Gly Gly Ser Ala Glu
 405 410 415
 Tyr Val Ala Leu Ser Leu Lys Ser Trp Gly Ser Glu Thr Thr Phe Phe
 420 425 430
 Trp Tyr Val Thr Ile Met Gly Ala Leu Ala Phe Ile Val Ser Leu Met
 435 440 445
 Leu His Arg Lys Gly Lys Gly Ile Arg Leu
 450 455

<210> 6532

<211> 147

<212> PRT

<213> Enterobacter cloacae

<400> 6532

Gly Gly Leu Val Arg Ser Cys Gln Ser Arg Gly Glu Asp Leu Glu Leu
 1 5 10 15
 His Leu Glu Gln Leu Phe Leu Glu His Gly Leu Thr Gln Phe Ala Thr
 20 25 30
 Gln Ser Val Thr Glu Gly Asn Lys Lys Pro Asp Phe Leu Phe Pro Ser
 35 40 45
 Ser Asp Ala Tyr His Asp Lys Ala Phe Pro Asp Glu Lys Leu His Met
 50 55 60
 Leu Ala Val Lys Thr Thr Cys Lys Asp Arg Trp Arg Gln Val Leu Asn
 65 70 75 80
 Glu Ala Asp Arg Ile Gln Asn Ile His Leu Phe Thr Leu Gln Glu Gly
 85 90 95
 Val Ser Leu Ala Gln Phe Lys Glu Met Gln Gln Glu Arg Val Thr Leu
 100 105 110
 Val Val Pro Ser Ser Leu His Lys Lys Tyr Pro Glu Ala Val Arg Pro
 115 120 125
 Glu Leu Met Thr Leu Gly His Phe Ile Ala Arg Leu Ile Gly Ile Tyr
 130 135 140
 Ala Ala
 145

<210> 6533

<211> 519

<212> PRT

<213> Enterobacter cloacae

<400> 6533

Ser Arg Val Ser Gly Phe Leu Ser Gln Leu Thr Pro Pro Ala Ala Ser
 1 5 10 15
 Leu Thr Ser Tyr Thr Gln Leu Pro Glu Ser Pro Met Thr Trp Lys Asn
 20 25 30
 Thr Ala Glu Gln Asn Ala Ile Ile Glu Trp Lys Gly Thr His Leu Val
 35 40 45
 Val Asn Ala Phe Ala Gly Thr Gly Lys Thr Thr Thr Leu Val Ser Tyr
 50 55 60

Ala Glu Ala Asn Pro Glu Ser Arg Met Leu Tyr Leu Ala Tyr Asn Arg
 65 70 75 80
 Ala Val Arg Asp Glu Ala Glu Arg Arg Phe Pro Tyr Asn Val Glu Cys
 85 90 95
 Lys Thr Ser His Gln Leu Ala Trp Ala Arg Phe Gly Lys His Phe Arg
 100 105 110
 Asp Arg Leu Thr Ala Ser Leu Arg Ile Thr Asp Val Ala Arg Lys Leu
 115 120 125
 Asn Thr Arg His Trp Pro Leu Ala Arg Leu Ala Leu Ser Gly Leu Asn
 130 135 140
 Met Phe Leu Cys Ser Ala Asp Pro Glu Pro Gly Leu Ile His Leu Pro
 145 150 155 160
 Ser Glu Asp Asp Arg His Gly Leu Asp Ala Gly Lys Ile Leu Gly Ala
 165 170 175
 Ile Gln Ile Leu Trp Tyr Glu Met Ser Arg Thr Asp Ser Val Phe Pro
 180 185 190
 Val Thr His Asp Thr Tyr Leu Lys Met Phe Gln Leu Ser Gln Pro Asp
 195 200 205
 Leu Ser Lys Arg Trp Asp Thr Ile Leu Phe Asp Glu Ala Gln Asp Ala
 210 215 220
 Asn Pro Val Thr Ser Ala Phe Val Leu Asn Gln Pro Cys Arg Val Ile
 225 230 235 240
 Leu Val Gly Asp Arg Tyr Gln Gln Ile Tyr Arg Phe Arg Gly Ala Asp
 245 250 255
 Asn Ala Leu Asn Ala Arg Gln Leu Ala Gln Ala Asp Arg Leu Trp Leu
 260 265 270
 Thr Ala Ser Phe Arg Phe Gly Pro Glu Val Ala Arg Val Ala Asn Ile
 275 280 285
 Leu Leu Glu Arg Ala Gly Glu Glu Lys Arg Val Ala Gly Asn Gly Gly
 290 295 300
 Gln Asp Ala Val Val Ser Asp Leu Pro Ala Gly Ala Glu His Ile Thr
 305 310 315 320
 Val Leu Ser Arg Thr Val Ser Gly Val Ile Gly Ser Ala Leu Thr Ala
 325 330 335
 Ser Leu Met Glu Lys Lys Val Phe Trp Val Gly Gly Ile Glu Gly Tyr
 340 345 350
 Lys Thr Glu Glu Leu Glu Asp Leu Tyr Trp Phe Ser Ala Asp Met Pro
 355 360 365
 Glu Lys Met Gln Ser Pro Arg Leu Ser Arg Asp Tyr Arg Asp Phe Asp
 370 375 380
 Glu Tyr Cys Ser Ile Ala Lys Ala Thr Gln Asp Val Glu Met Asn Gln
 385 390 395 400
 Ala Ile Arg Leu Leu Asp Asp Phe Phe Pro Leu Pro Gln Lys Leu Ala
 405 410 415
 Ile Met Arg Arg Gln Val Val Ser His Glu Lys Glu Ala Gln Val Thr
 420 425 430
 Val Ser Thr Ala His Arg Ser Lys Gly Leu Glu Trp Ser Val Val Met
 435 440 445
 Leu Ser Glu Asp Phe Thr Asp Ile Thr Asp Pro Leu Leu Ser Gln Glu
 450 455 460
 Glu Arg Gln Asp Glu Thr Asn Leu Leu Tyr Val Ala Val Thr Arg Ala
 465 470 475 480
 Arg Lys Thr Leu Val Leu Asn Glu Leu Met Arg Trp Leu Ser Glu Ala
 485 490 495
 Gly Glu Gly Asp Glu Asn Asp Ala Val Met Pro Asp Asp Thr Gly
 500 505 510
 Glu Ile Ser Gly Thr Glu
 515

<210> 6534

<211> 548

<212> PRT

<213> Enterobacter cloacae

<220>

<221> UNSURE

<222> (85)

<220>

<221> UNSURE

<222> (88)

<400> 6534

Ala	Ala	Leu	Tyr	Gln	Glu	Asn	Ile	Met	Leu	Ser	Arg	Ile	Arg	Thr	Leu
1				5					10					15	
Arg	Ser	Leu	Phe	Ser	Lys	Gly	Glu	Pro	Glu	Ala	Val	His	His	Ile	Ser
			20					25					30		
Thr	Val	Thr	Pro	Val	Gly	Tyr	His	Ala	Pro	Arg	Gly	Ala	Gly	Met	Leu
		35					40					45			
Cys	Ala	Ser	Pro	Leu	Arg	Lys	Thr	Cys	Leu	Gln	Gln	Ile	Trp	Glu	Asn
	50					55				60					
Cys	Ser	Leu	Pro	Ala	Asp	Ile	Tyr	Gln	Arg	Leu	Tyr	Leu	Ala	Pro	Leu
65					70					75					80
Asn	Gly	Leu	Leu	Xaa	Arg	Val	Xaa	Asn	Val	Pro	Ala	Thr	Gln	Lys	Gly
				85				90						95	
Arg	Trp	Ser	Gln	Ser	Ala	Gly	Phe	Gly	Asp	Leu	Thr	Leu	Gln	Phe	Thr
			100					105					110		
Thr	Cys	Ala	Val	Arg	Leu	Ala	Lys	Gly	Tyr	Met	Phe	Pro	Pro	Gly	Ala
	115						120					125			
Ala	Pro	Glu	Glu	Gln	Ala	Glu	Gln	Asn	Val	Met	Trp	Asn	Ala	Val	Ile
	130					135					140				
Ile	Trp	Ser	Ala	Leu	Phe	Trp	His	Leu	Leu	Phe	Leu	Ala	Thr	Leu	Glu
145					150					155					160
Gly	Glu	Leu	Leu	Asp	Gly	Lys	Ser	Trp	Leu	Pro	Gly	Met	Thr	Ile	Pro
				165					170					175	
Asp	Ser	Pro	Tyr	Arg	Phe	Arg	Phe	Arg	Glu	Ala	Glu	Asn	Ala	Ser	Ala
			180					185					190		
Phe	Ala	Ala	Leu	Ala	Ala	Gly	Gln	Leu	Met	Pro	Thr	Glu	Ala	Thr	Gly
	195						200					205			
Trp	Leu	Ala	Glu	Asn	Pro	Glu	Ala	Leu	Cys	Asn	Leu	Ala	Gly	Ala	Leu
	210					215					220				
Trp	Asn	Gln	His	Pro	Gly	Met	Pro	Leu	Ile	Arg	Gly	Leu	Met	Lys	Gln
225					230					235					240
Ala	Ala	Glu	Lys	Val	Glu	Ser	Pro	Ser	Leu	Gly	Ile	Ser	Gly	Ala	Asn
				245					250					255	
Glu	Lys	Val	Asp	Thr	Leu	Ala	Glu	Pro	Ala	Leu	Ser	Val	Ser	Arg	Thr
		260						265					270		
Ser	Ser	Asp	Arg	Glu	Thr	Glu	Leu	Gln	Pro	Ser	Ser	Glu	Ala	Lys	Leu
		275					280					285			
Lys	Thr	Ala	Leu	Pro	Glu	Ile	Ala	Asp	Leu	Gln	Gly	Thr	Leu	Leu	Ala
	290					295					300				
Ser	Ser	Ile	Ala	Pro	Val	Pro	Met	Ala	Asp	Asp	Gly	Asn	Leu	Val	Ser
305					310					315					320
Asn	Glu	Lys	Ala	Gly	Glu	Ile	Thr	Glu	Cys	Asp	Pro	Asn	Glu	Thr	Glu
				325					330					335	
Met	Ala	Asp	Thr	Glu	Met	Leu	Leu	Ser	Leu	Phe	Ser	Ala	Ile	Ser	Val
			340					345					350		
Pro	Asp	Met	Thr	Gly	Thr	Glu	Ala	Cys	Asp	Glu	Asp	Ser	Ser	Val	Asn
	355						360					365			
Ala	Arg	Ala	Glu	Asn	Glu	Pro	Glu	Phe	Ser	Pro	Leu	Asn	Glu	Ile	Ser
	370					375					380				
Pro	Glu	Ala	Asp	Lys	His	Glu	Ile	Asn	Gln	Thr	Ala	Ala	Glu	Asn	Ser


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385          390          395          400
Phe Pro Glu Pro Asp Thr Glu Asp Asn Ile Pro Leu His Ser Val Asn
      405          410          415
Ile Asp Met Gln Lys Thr Val Lys Lys Glu Gln Ala Gly Thr Glu Phe
      420          425          430
Leu Arg Trp Leu Ser Glu Gly Ile Lys Ser Lys Arg Ile Asp Ile Asn
      435          440          445
Gln Pro Asp Ser Arg Ala His Ala Val Ala Gly Phe Ile Phe Leu Arg
      450          455          460
Val Pro Asp Ile Phe Tyr Leu Tyr Ile Arg Glu Ser Gly Ser Glu Leu
465          470          475          480
Ser Arg Asp Ser Leu Gln Gln Glu Phe Glu Lys Leu His Ile His Arg
      485          490          495
Val Arg Arg Gly Glu Arg Phe Ile Lys Ala Lys Leu Tyr His Ser Pro
      500          505          510
Gly Lys Glu Gly Thr Phe Arg Pro Val Ser Gly Tyr Leu Val Lys Thr
      515          520          525
Thr His Leu Phe Arg Gly Ala Ser Ser Pro Glu Asp Ser Gly Leu Leu
530          535          540
Ser Phe Leu
545

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<210> 6535

<211> 468

<212> PRT

<213> Enterobacter cloacae

<400> 6535

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Leu Gly His Leu Asn Pro Met Met Ile Asn Glu Ala Gln Ala Gln Ala
1          5          10          15
Thr Ala Ala Ser Gly Ser Gly Asp Gly Arg Tyr Pro Ser Gly Leu Cys
      20          25          30
Ala Gly Ala Glu Ile Ile Pro Ala Ala Asp Glu Gln Thr Lys Ala Glu
      35          40          45
Pro Leu Thr Met Glu Ala Val Ile Thr Arg Glu Asn Leu Met Leu Ala
50          55          60
Tyr Gln Arg Val Val Glu Asn Lys Gly Ala Ala Gly Val Asp Asn Leu
65          70          75          80
Ser Val Ala Glu Leu Lys Pro Trp Leu Lys Arg His Trp Pro Gly Ile
      85          90          95
Arg Gln Ala Leu Ile Asp Gly Asn Tyr Gln Pro Arg Ala Ile Arg Arg
      100          105          110
Met Asp Ile Pro Lys Pro Asp Gly Gly Val Arg Thr Leu Gly Ile Pro
      115          120          125
Thr Val Val Asp Arg Leu Ile Gln Gln Ala Ile Ala Gln Arg Leu Ser
130          135          140
Ala Ile Val Asp Lys Asp Phe Ser Asp Ser Ser Tyr Gly Phe Arg Pro
145          150          155          160
Gly Arg Ser Ala Trp Gln Ala Val Gln Gln Ala Gln Arg Tyr Val Arg
      165          170          175
Ser Gly Lys Arg Trp Val Val Asp Met Asp Leu Glu Lys Phe Phe Asp
      180          185          190
Arg Val Asp His Arg Leu Leu Leu Ala Arg Leu Ala Arg Lys Ile Arg
195          200          205
Asp Arg Arg Leu Leu Arg Leu Ile Arg Arg Tyr Leu Lys Ala Glu Met
210          215          220
Val Lys Gly Gly Glu Arg Glu Lys Arg Arg Glu Gly Met Pro Gln Gly
225          230          235          240
Gly Pro Leu Ser Pro Leu Leu Ser Asn Ile Leu Leu Asp Glu Leu Asp
      245          250          255
Lys Glu Leu Glu Arg Arg Gly His Ser Phe Cys Arg Tyr Ala Asp Asp

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	260		265		270
Cys	Asn	Ile	Tyr	Val	Ser
	275				Ser
Ala	Val	Arg	Glu	Phe	Val
	290				Glu
Gln	Lys	Ser	Ala	Val	Ala
	305				Arg
Ser	Val	Thr	Trp	His	Lys
					Gln
Val	Gly	Arg	Leu	Lys	Asp
					Lys
Ser	Arg	Ser	Val	Lys	Ala
					Thr
Gly	Trp	Ile	Ser	Tyr	Phe
					Arg
Glu	Leu	Asp	Gly	Trp	Ile
					Asn
Gln	Trp	Lys	Arg	Pro	Arg
					Ser
Leu	Gly	Arg	Asp	Arg	Ala
					Met
Trp	Trp	Asn	Ser	Gly	Ala
					Ser
Trp	Phe	Arg	Gly	Leu	Gly
					Leu
Phe	Gln	Arg			

<210> 6536

<211> 68

<212> PRT

<213> Enterobacter cloacae

<400> 6536

Thr	Gln	Thr	Asn	Arg	Pro	Ala	Ala	Glu	Ile	Leu	Pro	Glu	Leu	Gly	Gln
1			5					10						15	
Leu	Ser	Arg	Arg	Gln	Ile	Ala	Ala	Leu	Val	Glu	Val	Ala	Pro	Tyr	Asp
			20					25					30		
Arg	Asp	Ser	Gly	Arg	Met	Lys	Gly	Arg	Arg	Val	Ile	Trp	Gly	Gly	Lys
			35				40					45			
Ser	Trp	Pro	Ser	Ile	His	Phe	Val	Tyr	Gly	Cys	Ala	Phe	Cys	Cys	Thr
			50			55					60				
Val	Gln	Ser													

<210> 6537

<211> 532

<212> PRT

<213> Enterobacter cloacae

<400> 6537

Thr	Ala	Asp	Pro	Arg	Cys	Cys	Lys	Thr	Asp	Val	Cys	Leu	Trp	Phe	Asp
1			5					10						15	
Gly	Glu	Pro	Lys	Arg	Thr	Asn	Leu	Asn	His	Trp	Leu	Asn	Ile	Gln	
			20				25					30			
Ile	Asn	Leu	Phe	Tyr	Leu	Gly	Gln	Met	Ser	Asp	Met	Val	Ser	Pro	Met
			35			40					45				
Arg	Pro	Thr	Gly	Gly	Ala	Met	Ser	Glu	Phe	Glu	Leu	Leu	Ala	Gln	Asp
			50			55				60					
Leu	Leu	Gln	Lys	Ser	Glu	Glu	Glu	Lys	Leu	Gln	Gln	Glu	Lys	Asp	
65					70				75					80	

Lys Glu Leu Ile Ala Lys Val Leu Glu Ile Tyr Asp Gln Lys Tyr Val
 85 90 95
 Ala Glu Leu Leu Arg Lys Val Gly Asn Asn Asp Trp Ser Arg Glu Thr
 100 105 110
 Ile Asn Arg Trp Ile Asn Gly Lys Cys Gly Pro Lys Ser Leu Thr Ser
 115 120 125
 Ala Glu Glu Ile Leu Leu Arg Lys Met Leu Pro Glu Pro Pro Lys His
 130 135 140
 His Pro Asp Tyr Ala Phe Arg Phe Ile Asp Leu Phe Ala Gly Ile Gly
 145 150 155 160
 Gly Ile Arg Lys Gly Phe Glu Glu Ile Gly Arg His Cys Val Phe Thr
 165 170 175
 Ser Glu Trp Asn Lys Glu Ala Val Arg Thr Tyr Lys Ala Asn Trp Phe
 180 185 190
 Asn Asp Glu Leu Glu His Lys Phe Asn Leu Asp Ile Arg Glu Val Thr
 195 200 205
 Leu Ser Asp Arg Glu Asp Leu Ser Glu Thr Ala Ala Tyr Lys His Ile
 210 215 220
 Asp Lys Glu Ile Pro Asp His Asp Val Leu Leu Ala Gly Phe Pro Cys
 225 230 235 240
 Gln Pro Phe Ser Leu Ala Gly Val Ser Lys Lys Asn Ser Leu Gly Arg
 245 250 255
 Ala His Gly Phe Glu Cys Glu Ala Gln Gly Thr Leu Phe Phe Asp Val
 260 265 270
 Ala Arg Ile Ile Lys Ala Lys Lys Pro Ala Ile Phe Val Leu Glu Asn
 275 280 285
 Val Lys Asn Leu Lys Ser His Asp Lys Gly Lys Thr Phe Lys Val Ile
 290 295 300
 Met Glu Thr Leu Asp Glu Leu Gly Tyr Glu Val Ala Asp Ala Gly Val
 305 310 315 320
 Ser Gly Ser Asp Asp Pro Lys Ile Ile Asp Gly Lys Asn Phe Leu Pro
 325 330 335
 Gln His Arg Glu Arg Ile Val Leu Val Gly Phe Arg Arg Asp Leu Lys
 340 345 350
 Ile His Asp Gly Phe Thr Leu Arg Asn Ile His Lys Phe Tyr Pro Gln
 355 360 365
 Asn Arg Pro Thr Phe Gly Glu Leu Leu Asp Pro Ala Val Asp Ser Lys
 370 375 380
 Tyr Ile Leu Thr Pro Lys Leu Trp Glu Tyr Leu Tyr Asn Tyr Ala Lys
 385 390 395 400
 Lys His Ala Ala Lys Gly Asn Gly Phe Gly Phe Gly Leu Val Asp Pro
 405 410 415
 Thr Asn Val Asn Ser Val Ala Arg Thr Leu Ser Ala Arg Tyr His Lys
 420 425 430
 Asp Gly Ser Glu Ile Leu Ile Asp Arg Gly Trp Asp Lys Ala Lys Gly
 435 440 445
 Glu Leu Asp Phe Arg Asp Glu Glu Asn Gln Ser Arg Arg Pro Arg Arg
 450 455 460
 Leu Thr Pro His Glu Cys Ala Arg Leu Met Gly Phe Glu Lys Val Gly
 465 470 475 480
 Gly Lys Pro Phe Arg Ile Pro Val Ser Asp Thr Gln Ser Tyr Arg Gln
 485 490 495
 Phe Gly Asn Ser Val Val Val Pro Val Phe Glu Ala Val Ala Arg Leu
 500 505 510
 Leu Glu Pro Tyr Ile Gly Lys Ala Val Ala Val Arg Thr Asn Lys Ala
 515 520 525
 Lys Thr Lys
 530

<210> 6538

<211> 102

<212> PRT

<213> Enterobacter cloacae

<400> 6538

Lys Ala Val Gly Leu Ser Gly Val Gly Arg Ala Gly Leu Arg Ser Ile
 1 5 10 15
 Leu Phe Met Ala Val Leu Ser Val Val Arg Phe Asn Pro Lys Met Lys
 20 25 30
 His Tyr Tyr Gln Gly Leu Leu Glu Arg Gly Lys Val Lys Lys Val Ala
 35 40 45
 Leu Thr Ala Cys Ile Arg Lys Phe Ile Thr Ile Leu Asn Ala Met Val
 50 55 60
 Arg Asp Trp Lys Met Trp Ser Ala Glu Leu Gln Thr Pro Gly Val Ala
 65 70 75 80
 Lys Gln Met Phe Val Tyr Gly Ser Met Gly Ser Gln Lys Ser Glu Gln
 85 90 95
 Ile Ser Thr Thr Gly
 100

<210> 6539

<211> 461

<212> PRT

<213> Enterobacter cloacae

<400> 6539

Ala Thr Ile Asp Thr His Met Lys Ala Lys Ala Ile Leu Leu Ala Ser
 1 5 10 15
 Val Leu Leu Val Gly Cys Gln Ser Gln Asn Gly Ser Asn Val Gln Gln
 20 25 30
 His Ala Gln Ser Leu Ser Ala Ala Gly Gln Gly Glu Ala Gly Lys Phe
 35 40 45
 Thr Ser Gln Ala Arg Trp Leu Asp Asp Gly Thr Ser Phe Ala Gln Glu
 50 55 60
 Gln Asp Leu Trp Ala Ser Ile Gly Asp Glu Leu Lys Met Gly Ile Pro
 65 70 75 80
 Glu Asn Ser Arg Ile Arg Glu Gln Lys Gln Lys Tyr Leu Arg Asn Lys
 85 90 95
 Ser Tyr Leu His Asp Val Thr Leu Arg Ala Glu Pro Tyr Met Tyr Trp
 100 105 110
 Ile Ala Gly Gln Val Lys Lys Arg Asn Met Pro Met Glu Leu Val Leu
 115 120 125
 Leu Pro Ile Val Glu Ser Ala Phe Asp Pro His Ala Thr Ser Gly Ala
 130 135 140
 Asn Ala Ala Gly Ile Trp Gln Ile Ile Pro Ser Thr Gly Arg Asn Tyr
 145 150 155 160
 Gly Leu Lys Gln Thr Arg Asn Tyr Asp Ala Arg Arg Asp Val Val Ala
 165 170 175
 Ser Thr Thr Ala Ala Leu Asp Met Met Gln Arg Leu Asn Lys Met Phe
 180 185 190
 Asp Gly Asp Trp Leu Leu Thr Val Ala Ala Tyr Asn Ser Gly Glu Gly
 195 200 205
 Arg Val Leu Lys Ala Met Lys Ala Asn Lys Ala Arg Gly Lys Ser Thr
 210 215 220
 Asp Phe Trp Ser Leu Ser Leu Pro Gln Glu Thr Lys Ile Tyr Val Pro
 225 230 235 240
 Lys Met Leu Ala Leu Ser Asp Ile Leu Lys Asn Ser Lys Arg Tyr Gly
 245 250 255
 Val Gln Leu Pro Thr Pro Asp Glu Ser Arg Ala Leu Ala Arg Val Arg
 260 265 270
 Leu Ser Ser Pro Val Asp Ile Gln Gln Val Ala Asp Met Thr Gly Met
 275 280 285

Ser Val Ser Lys Leu Lys Thr Phe Asn Ala Gly Val Lys Gly Ser Thr
 290 295 300
 Leu Gly Ala Ser Gly Pro Arg Tyr Val Met Val Pro Gln Lys His Ala
 305 310 315 320
 Glu Gln Leu Arg Glu Ser Leu Ala Ser Gly Glu Ile Ala Ala Val Gln
 325 330 335
 Ser Thr Leu Ile Ala Asp Thr Ser Pro Val Ser Ser Arg Ser Tyr Lys
 340 345 350
 Val Arg Ser Gly Asp Thr Leu Ser Gly Ile Ala Ser Arg Leu Gly Val
 355 360 365
 Asn Ala Lys Asp Leu Gln Gln Trp Asn Asn Leu Arg Gly Ser Gly Leu
 370 375 380
 Lys Val Gly Gln Thr Leu Asn Val Gly Ala Gly Ser Ser Ala Gln Arg
 385 390 395 400
 Leu Ala Lys Asn Ser Asp Ser Ile Thr Tyr Arg Val Arg Lys Gly Asp
 405 410 415
 Ser Leu Ser Ser Ile Ala Lys Arg His Gly Val Asn Ile Lys Asp Val
 420 425 430
 Met Arg Trp Asn Asn Asp Thr Asp Asn Leu Gln Pro Gly Asp Gln Leu
 435 440 445
 Thr Leu Phe Val Lys Asn Ser Ala Thr Pro Asp Ser
 450 455 460

<210> 6540

<211> 102

<212> PRT

<213> Enterobacter cloacae

<400> 6540

Ser Leu Arg Leu Ala Leu Ala Arg Pro Gly Ile Leu Glu Gly Thr Ser
 1 5 10 15
 Ser Arg Leu Ala Thr Ile Ala Ile Thr Pro Asn Ser Asp Thr Ala Arg
 20 25 30
 Lys Val Ser Arg Gln Pro Lys Cys Cys Pro Ile Asn Val Pro Asn Gly
 35 40 45
 Thr Pro Val Thr Ser Ala Thr Val Lys Pro Pro Asn Ile Ile Ala Met
 50 55 60
 Ala Asp Ala Ala Phe Ser Phe Gly Thr Arg Leu Val Ala Ile Val Glu
 65 70 75 80
 Pro Met Glu Lys Lys Thr Pro Cys Ala Arg Pro Val Ser Lys Arg Ala
 85 90 95
 Met Thr Ser Val Val
 100

<210> 6541

<211> 309

<212> PRT

<213> Enterobacter cloacae

<400> 6541

Asn Phe Ala Asp Asp Ala Ile Met Lys Ala Thr Ser Glu Glu Leu Thr
 1 5 10 15
 Ile Phe Val Ala Val Val Glu Ser Gly Ser Phe Ser Arg Ala Ala Glu
 20 25 30
 Gln Leu Gly Gln Ala Asn Ser Ala Ile Ser Arg Ser Val Lys Lys Leu
 35 40 45
 Glu Met Lys Leu Gly Val Ser Leu Leu Asn Arg Thr Thr Arg Gln Leu
 50 55 60
 Ser Leu Thr Glu Glu Gly Glu Arg Tyr Phe Arg Arg Val Gln Ser Val
 65 70 75 80
 Leu Gln Glu Met Ala Ala Ala Glu Thr Glu Ile Met Glu Ser Arg Ser

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<210> 6542
<211> 64
<212> PRT
<213> Enterobacter cloacae
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<210> 6543
<211> 273
<212> PRT
<213> Enterobacter cloacae
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<400> 6543															
Arg	Leu	Arg	Asn	His	Met	Thr	Ile	Pro	Ala	Leu	Gly	Leu	Gly	Thr	Phe
1				5					10					15	
Arg	Leu	Lys	Asp	Asp	Val	Val	Ile	Ala	Ser	Val	Lys	Thr	Ala	Leu	Glu
			20					25					30		
Leu	Gly	Tyr	Arg	Ala	Ile	Asp	Thr	Ala	Gln	Ile	Tyr	Asp	Asn	Glu	Ala
		35					40					45			
Ala	Val	Gly	Gln	Ala	Ile	Glu	Glu	Ser	Gly	Val	Pro	Arg	Asp	Glu	Leu
	50					55					60				
Phe	Val	Thr	Thr	Lys	Ile	Trp	Ile	Glu	Asn	Leu	Ser	Lys	His	Lys	Leu
65					70					75					80

Ile Pro Ser Leu Lys Glu Ser Leu Lys Lys Leu Arg Thr Asp Tyr Val
 85 90 95
 Asp Leu Thr Leu Ile His Trp Pro Ser Pro Asp Asp Ala Val Ser Val
 100 105 110
 Glu Glu Phe Met Gln Ala Leu Leu Glu Ala Lys Glu Gln Gly Leu Thr
 115 120 125
 Arg Glu Ile Gly Ile Ser Asn Phe Thr Ile Pro Leu Met Glu Arg Ala
 130 135 140
 Ile Ala Ala Val Gly Lys Glu Asn Ile Ala Thr Asn Gln Ile Glu Leu
 145 150 155 160
 Ser Pro Tyr Leu Gln Asn Arg Lys Val Val Asp Trp Ala Lys Gln His
 165 170 175
 Ser Ile His Ile Thr Ser Tyr Met Thr Leu Ala Tyr Gly Lys Ala Leu
 180 185 190
 Lys Asp Glu Val Ile Ala Arg Ile Ala Glu Lys His Asn Ala Thr Ala
 195 200 205
 Ala Gln Val Ile Leu Ala Trp Ala Met Gly Glu Gly Tyr Ala Val Ile
 210 215 220
 Pro Ser Ser Thr Lys Arg Glu Asn Leu Ala Ser Asn Leu Leu Ala Arg
 225 230 235 240
 Asp Leu Gln Leu Asp Asp Glu Asp Lys Asn Ala Ile Ala Ala Leu Glu
 245 250 255
 Cys Asn Asp Arg Leu Val Ser Pro Glu Gly Leu Ala Pro Asp Trp Asp
 260 265 270

<210> 6544

<211> 291

<212> PRT

<213> Enterobacter cloacae

<400> 6544

Pro Lys Ile Pro Ile Thr Leu Glu Pro Val Arg Phe Pro Gly Trp Phe
 1 5 10 15
 Met Leu Gln Arg Ser Phe Pro Lys Val Arg Lys Asn Thr Tyr Ala Met
 20 25 30
 Arg Tyr Val Ala Gly Met Pro Ala Glu Arg Ile Leu Pro Pro Gly Ser
 35 40 45
 Phe Ala Ser Leu Gly Gln Ala Leu Pro Ala Gly Thr Pro Leu Ser Ser
 50 55 60
 Asp Glu Lys Ile Arg Val Leu Val Trp Asn Ile Phe Lys Gln Gln Arg
 65 70 75 80
 Ala Glu Trp Leu Ser Val Leu Gln Asn Phe Gly Lys Asp Ala His Leu
 85 90 95
 Val Leu Leu Gln Glu Ala Gln Trp Thr Pro Glu Leu Val Arg Phe Ala
 100 105 110
 Thr Thr Asn Tyr Leu Ala Ala Asp Gln Val Pro Ala Phe Val Leu Pro
 115 120 125
 Gln His Pro Ser Gly Val Met Thr Leu Ser Ala Ala His Pro Val Tyr
 130 135 140
 Cys Cys Pro Leu Arg Glu Arg Glu Pro Ile Leu Arg Leu Ala Lys Ser
 145 150 155 160
 Ala Leu Val Thr Val Tyr Pro Leu Pro Asp Thr Arg Leu Leu Met Val
 165 170 175
 Val Asn Ile His Ala Val Asn Phe Ser Leu Gly Val Asp Val Tyr Ser
 180 185 190
 Lys Gln Leu Leu Pro Ile Gly Asp Gln Ile Ala His His Ser Gly Pro
 195 200 205
 Ile Ile Met Ala Gly Asp Phe Asn Ala Trp Ser Arg Pro Arg Met Asn
 210 215 220

Ala Leu Tyr Arg Phe Ala Arg Glu Met Ser Leu Arg Glu Val Arg Phe
 225 230 235 240
 Asn Asp Asp Gln Arg Lys Lys Ala Phe Gly Arg Pro Leu Asp Phe Val
 245 250 255
 Phe Tyr Arg Gly Leu Ser Val His Asp Ala Ser Val Leu Val Thr Arg
 260 265 270
 Ala Ser Asp His Asn Pro Leu Leu Val Glu Phe Ser Pro Gly Lys Pro
 275 280 285
 Asp Lys
 290

<210> 6545

<211> 397

<212> PRT

<213> Enterobacter cloacae

<400> 6545

Arg Asp Gly Val Phe Met Pro Leu Ala Leu Leu Ala Leu Thr Ile Ser
 1 5 10 15
 Ala Phe Ala Ile Gly Thr Thr Glu Phe Val Ile Val Gly Leu Val Pro
 20 25 30
 Thr Ile Ala Glu Gln Leu Ala Ile Ser Leu Pro Ser Ala Gly Leu Leu
 35 40 45
 Val Ser Ile Tyr Ala Leu Gly Val Ala Val Gly Ala Pro Val Leu Thr
 50 55 60
 Ala Leu Thr Gly Arg Phe Ala Arg Lys Lys Leu Leu Val Ala Leu Met
 65 70 75 80
 Val Leu Phe Thr Ala Gly Asn Ile Leu Ala Trp Gln Ala Pro Asp Tyr
 85 90 95
 Thr Thr Leu Val Ile Ala Arg Leu Leu Thr Gly Leu Ala His Gly Val
 100 105 110
 Phe Phe Ser Ile Gly Ser Thr Ile Ala Thr Ser Leu Val Pro Lys Glu
 115 120 125
 Lys Ala Ala Ser Ala Ile Ala Ile Met Phe Gly Gly Leu Thr Val Ala
 130 135 140
 Leu Val Thr Gly Val Pro Leu Gly Thr Phe Ile Gly Gln His Phe Gly
 145 150 155 160
 Trp Arg Glu Thr Phe Leu Ala Val Ser Leu Leu Gly Val Ile Ala Met
 165 170 175
 Val Ala Ser Leu Leu Leu Val Pro Ser Ser Ile Pro Gly Arg Ala Ser
 180 185 190
 Ala Ser Leu Ser Asp Gln Val Lys Val Leu Thr His Pro Arg Leu Leu
 195 200 205
 Leu Ile Tyr Ala Val Thr Ala Leu Gly Tyr Gly Gly Val Phe Thr Ala
 210 215 220
 Phe Thr Phe Leu Ala Pro Met Met Gln Glu Leu Ala Gly Phe Ser Pro
 225 230 235 240
 Gly Ala Val Ser Trp Ile Leu Leu Gly Tyr Gly Ile Ser Val Ala Ile
 245 250 255
 Gly Asn Ile Trp Gly Gly Lys Leu Ala Asp Lys His Gly Ala Val Pro
 260 265 270
 Ala Leu Lys Phe Ile Phe Ala Ala Leu Val Val Leu Leu Met Ile Phe
 275 280 285
 Gln Phe Thr Ala Ser Ile Gln Tyr Ala Ala Leu Val Thr Val Leu Val
 290 295 300
 Met Gly Ile Phe Ala Phe Gly Asn Val Pro Gly Leu Gln Val Tyr Val
 305 310 315 320
 Val Gln Lys Ala Glu Arg Tyr Thr Pro Asn Ala Val Asp Val Ala Ser
 325 330 335
 Gly Leu Asn Ile Ala Ala Phe Asn Ile Gly Ile Ala Leu Gly Ser Val
 340 345 350

Ile Gly Gly Gln Thr Val Glu His Val Gly Leu Thr Gln Thr Pro Trp
 355 360 365
 Ile Gly Ala Val Ile Val Leu Val Ala Phe Leu Leu Ile Gly Leu Ser
 370 375 380
 Gly Arg Leu Asp Lys Pro Ala Arg Val Ala Leu Gly
 385 390 395

<210> 6546

<211> 262

<212> PRT

<213> Enterobacter cloacae

<400> 6546

Lys Asp Ser Asn Met Thr Thr Thr His Ser His His Asp Asn Val Asp
 1 5 10 15
 Lys Gln Phe Gly Ser Gln Ala Ser Ala Tyr Leu Ser Ser Ala Val His
 20 25 30
 Ala Ser Gly Arg Asp Leu Val Arg Leu Gly Glu Arg Leu Ala Ala Phe
 35 40 45
 Pro Asp Ala His Val Leu Asp Leu Gly Cys Gly Ala Gly His Ala Ser
 50 55 60
 Phe Thr Ala Ala Glu Gln Val Ala Gln Val Thr Ala Tyr Asp Leu Ser
 65 70 75 80
 Ser Gln Met Leu Asp Val Val Ala Glu Ala Ala Lys Ala Lys Gly Leu
 85 90 95
 Asn Asn Val Thr Thr Arg Gln Gly Tyr Ala Glu Ser Leu Pro Phe Glu
 100 105 110
 Asp Ala Ser Phe Glu Val Val Ile Ser Arg Tyr Ser Ala His His Trp
 115 120 125
 His Asp Val Gly Gln Ala Leu Arg Glu Val Lys Arg Val Leu Lys Pro
 130 135 140
 Gly Gly Ile Phe Ile Ile Met Asp Val Met Ser Pro Gly His Pro Val
 145 150 155 160
 Arg Asn Ile Trp Leu Gln Thr Val Glu Ala Leu Arg Asp Thr Ser His
 165 170 175
 Val Gln Asn Tyr Ser Ser Gly Glu Trp Leu Thr Phe Ile Thr Glu Ala
 180 185 190
 Gly Leu Ile Ser Arg Ser Leu Ile Thr Asp Arg Leu Pro Leu Glu Phe
 195 200 205
 Ala Ser Trp Ile Ala Arg Met Arg Thr Pro Glu Ala Leu Thr Gln Ala
 210 215 220
 Ile Arg Leu Tyr Gln Glu Ser Ala Ser Ala Asp Val Lys Ala Tyr Phe
 225 230 235 240
 Glu Leu His Asp Asp Gly Ser Phe Thr Ser Asp Thr Ile Met Ala Glu
 245 250 255
 Ala Gln Lys Ala Gly
 260

<210> 6547

<211> 337

<212> PRT

<213> Enterobacter cloacae

<400> 6547

Pro Gly Cys Arg Leu Ser Lys Glu Ser Met Met Ser Ser Val Thr Thr
 1 5 10 15
 Ser Gly Ala Pro Lys Ser Ala Phe Ser Phe Gly Arg Ile Trp Asp Gln
 20 25 30
 Tyr Gly Met Leu Val Val Phe Ala Ala Leu Phe Val Ala Cys Ala Ile
 35 40 45
 Phe Val Pro Asn Phe Ala Thr Phe Ile Asn Met Lys Gly Leu Gly Leu

50		55		60
Ala Ile Ser Met Ser Gly Met Val Ala Cys Gly Met Leu Phe Cys Leu				
65		70		75
Ala Ser Gly Asp Phe Asp Leu Ser Val Ala Ser Val Ile Ala Cys Ala				
	85		90	95
Gly Val Thr Thr Ala Val Val Ile Asn Met Thr Glu Ser Leu Trp Ile				
	100		105	110
Gly Val Leu Ala Gly Leu Leu Leu Gly Val Leu Ser Gly Leu Val Asn				
	115		120	125
Gly Phe Val Ile Ala Arg Leu Lys Ile Asn Ala Leu Ile Thr Thr Leu				
	130		135	140
Ala Thr Met Gln Ile Val Arg Gly Leu Ala Tyr Ile Ile Ser Asp Gly				
	145		150	155
Lys Ala Val Gly Ile Glu Asp Glu Arg Phe Phe Thr Leu Gly Tyr Ala				
	165		170	175
Asn Trp Leu Gly Leu Pro Ala Pro Ile Trp Leu Thr Val Gly Cys Leu				
	180		185	190
Ile Leu Phe Gly Phe Leu Leu Asn Arg Thr Thr Phe Gly Arg Asn Thr				
	195		200	205
Leu Ala Ile Gly Gly Asn Glu Glu Ala Ala Arg Leu Ala Gly Val Pro				
	210		215	220
Val Val Arg Thr Lys Ile Ile Ile Phe Val Leu Ser Gly Leu Val Ser				
	225		230	235
Ala Ala Ala Gly Ile Ile Leu Ala Ser Arg Met Thr Ser Gly Gln Pro				
	245		250	255
Met Thr Ser Ile Gly Tyr Glu Leu Ile Val Ile Ser Ala Cys Val Leu				
	260		265	270
Gly Gly Val Ser Leu Lys Gly Gly Ile Gly Lys Ile Ser Tyr Val Val				
	275		280	285
Ala Gly Ile Leu Ile Leu Gly Thr Val Glu Asn Ala Met Asn Leu Leu				
	290		295	300
Asn Ile Ser Pro Phe Ser Gln Tyr Val Val Arg Gly Leu Ile Leu Leu				
	305		310	315
Ala Ala Val Ile Phe Asp Arg Tyr Lys Gln Lys Ala Lys Arg Thr Val				
	325		330	335

<210> 6548

<211> 305

<212> PRT

<213> Enterobacter cloacae

<220>

<221> UNSURE

<222> (305)

<400> 6548

Pro Ala Gln Leu Leu Thr Ile Val Asp Pro Leu Thr Gly Pro Pro Val				
1	5		10	15
Leu Leu Thr Gly Arg Leu Leu Asn Gly Glu His Arg His Thr Val Tyr				
	20		25	30
Thr Tyr Met Ala Val Leu Phe Thr Val Arg Arg Ile Arg Val Ala Asp				
	35		40	45
Leu Leu Thr Ala Pro Pro Val Leu Pro Gly Lys Phe Ala Phe Phe Phe				
	50		55	60
Asp Leu Asp Gly Thr Leu Ala Gly Ile Glu Pro His Pro Asp Asp Val				
	65		70	75
Val Val Pro Asp Thr Val Leu Glu Asn Leu Gln Gln Leu Ser Arg Gln				
	85		90	95
Asn Glu Gly Ala Leu Ala Leu Ile Ser Gly Arg Ser Met Ala Glu Leu				

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      100      105      110
Asp Val Leu Ala Ser Pro Tyr His Phe Pro Leu Ala Gly Val His Gly
      115      120      125
Ala Glu Arg Arg Asp Ile His Asp Gln Leu His Ile Val Ser Leu Pro
      130      135      140
Asp Thr Leu Ile Gln Thr Leu His Ala Gln Leu Ser Ser Ala Leu Glu
      145      150      155      160
Met Leu Pro Gly Thr Glu Leu Glu Ala Lys Gly Met Ala Phe Ala Leu
      165      170      175
His Tyr Arg Gln Ala Pro His His Glu Ala Ala Ile Phe Ser Ile Ala
      180      185      190
Arg Ser Val Ala Glu Ala His Pro Glu Leu Ala Leu Gln Pro Gly Lys
      195      200      205
Cys Val Val Glu Ile Lys Pro Ala Gly Ile Asn Lys Gly Ala Ala Ile
      210      215      220
Ala Ala Phe Met Ala Glu Ala Pro Phe Lys Gly Arg Thr Pro Val Phe
      225      230      235      240
Phe Gly Asp Asp Leu Thr Asp Glu Ala Gly Phe Arg Val Val Asn Gln
      245      250      255
Ala Gln Gly Met Ser Val Lys Val Gly Ser Gly Glu Thr Ile Ala Gly
      260      265      270
Trp Arg Leu Glu Asn Val Ala Ser Val Trp Gln Trp Ile Ser Asp Val
      275      280      285
Ala Asn Gln Gln Gln Leu Phe Thr Thr Asp Cys Arg Pro Ala His Met
      290      295      300

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Xaa

305

<210> 6549

<211> 140

<212> PRT

<213> Enterobacter cloacae

<400> 6549

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Lys Ala Cys Gly Gln Thr Thr Ala Gln Arg Leu Lys Thr Ser His Arg
1      5      10      15
Val Arg Cys Ser Asp Lys Lys Thr Cys Phe Gly Arg Phe Phe Tyr Val
      20      25      30
Cys Gly Arg Arg Glu Gly Asp Gly Arg Ala Ser Val Leu Leu Leu Trp
      35      40      45
Arg Pro Leu Asn Lys Glu Asn Pro Met Ser Gln Asn Leu Ser Ala Asp
      50      55      60
Gln Glu Leu Val Ser Asp Val Val Ala Cys Gln Leu Val Ile Lys Gln
      65      70      75      80
Ile Leu Asp Val Ile Asp Val Ile Ala Pro Val Glu Val Arg Glu Lys
      85      90      95
Met Ser Thr Gln Leu Lys Asn Ile Asp Phe Thr Asn His Pro Ala Ala
      100      105      110
Ala Asp Pro Val Thr Leu Arg Ala Ile Gln Lys Ala Ile Ala Leu Ile
      115      120      125
Glu Leu Arg Phe Thr Pro Gln Gly Glu Ser His
      130      135      140

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<210> 6550

<211> 203

<212> PRT

<213> Enterobacter cloacae

<400> 6550

```

Arg Glu Lys Met Lys Arg Cys Phe Thr Leu Phe His Ser Leu Arg Phe
1      5      10      15

```

Met Met Ala Asn Val Ala Val Leu Leu Ala Pro Gly Phe Glu Glu Ala
 20 25 30
 Glu Ala Ile Ile Thr Ile Asp Ile Leu Arg Arg Leu Gln Ile Glu Val
 35 40 45
 Glu Thr Leu Ala Cys Ala Glu Ser Arg Ala Val Val Ser Tyr His Asn
 50 55 60
 Ile Pro Met Val Ala Asp Ser Thr Leu Thr Glu Arg Ile Asn Arg Leu
 65 70 75 80
 Tyr Asp Ala Val Val Leu Pro Gly Gly Pro Gln Gly Ser Val Asn Leu
 85 90 95
 Ala Ala Asn Gln Glu Val Ile Arg Phe Val Ser Ala His Asp Glu His
 100 105 110
 Gly Lys Leu Ile Cys Pro Ile Cys Ser Ala Ala Ala Arg Val Leu Gly
 115 120 125
 Gly Asn Gly Leu Leu Lys Gly Arg Arg Tyr Val Cys Ser Gly Asp Leu
 130 135 140
 Trp Gln Ser Val Asp Asp Gly Val Tyr Val Asp Ala Pro Val Val Glu
 145 150 155 160
 Asp Asn Asn Leu Ile Ser Gly Lys Gly Leu Gly His Ala Phe Asp Phe
 165 170 175
 Ala Leu Thr Leu Ser Ala Arg Leu Leu Gly Val Asp Ser Pro Val Arg
 180 185 190
 Asp His Ala Glu His Ile Tyr Tyr Arg Trp
 195 200

<210> 6551

<211> 518

<212> PRT

<213> Enterobacter cloacae

<400> 6551

Gly Ala Arg Arg Thr His Tyr Arg Asn His Gly Val Val Met Gln Gln
 1 5 10 15
 Ser Asp Pro Tyr Leu Ser Phe Arg Gly Ile Gly Lys Thr Phe Pro Gly
 20 25 30
 Val Asn Ala Leu Thr Asp Ile Ser Phe Asp Cys Tyr Ala Gly Gln Val
 35 40 45
 His Ala Leu Met Gly Glu Asn Gly Ala Gly Lys Ser Thr Leu Leu Lys
 50 55 60
 Ile Leu Ser Gly Asn Tyr Thr Pro Thr Thr Gly Thr Leu Ala Ile Arg
 65 70 75 80
 Gly Glu Glu Val Ala Phe Ala Asp Thr Thr Ala Ala Leu Asn Ala Gly
 85 90 95
 Val Ala Ile Ile Tyr Gln Glu Leu His Leu Ile Pro Glu Met Thr Val
 100 105 110
 Ala Glu Asn Ile Tyr Leu Gly Gln Leu Pro His Lys Ser Gly Val Val
 115 120 125
 Asn Arg Ser Leu Leu Asn Tyr Glu Ala Gly Leu Gln Leu Lys His Leu
 130 135 140
 Gly Leu Asp Val Asp Pro Gln Thr Pro Leu Lys Tyr Leu Ser Ile Gly
 145 150 155 160
 Gln Trp Gln Met Val Glu Ile Ala Lys Ala Leu Ala Arg Asn Ala Lys
 165 170 175
 Ile Ile Ala Phe Asp Glu Pro Thr Ser Ser Leu Ser Ala Arg Glu Ile
 180 185 190
 Glu Asn Leu Phe Arg Val Ile Arg Glu Leu Arg Lys Glu Gly Arg Ile
 195 200 205
 Ile Leu Tyr Val Ser His Arg Met Glu Glu Ile Phe Ala Leu Ser Asp
 210 215 220
 Ala Ile Thr Val Phe Lys Asp Gly Arg Tyr Val Arg Thr Phe Thr Asp
 225 230 235 240

Met Gln Gln Val Asn His Asp Gln Leu Val Gln Ala Met Val Gly Arg
 245 250 255
 Asp Leu Gly Asp Ile Tyr His Trp Lys Pro Arg Glu Tyr Gly Pro Glu
 260 265 270
 Arg Leu Arg Leu Asp Asn Val Lys Ala Pro Gly Val Arg Thr Pro Ile
 275 280 285
 Ser Leu Ser Val Arg Ser Gly Glu Ile Val Gly Leu Phe Gly Leu Val
 290 295 300
 Gly Ala Gly Arg Ser Glu Leu Met Lys Gly Leu Phe Gly Gly Thr Arg
 305 310 315 320
 Ile Thr Gln Gly Gln Val Phe Val Asp Gly Lys Lys Val Asp Ile Gln
 325 330 335
 Lys Pro Ala Gln Ala Ile Asn Ala Gly Ile Met Leu Cys Pro Glu Asp
 340 345 350
 Arg Lys Ala Glu Gly Ile Ile Pro Val His Ser Val Arg Asp Asn Ile
 355 360 365
 Asn Ile Ser Ala Arg Arg Lys Phe Ile Arg Ala Gly Cys Leu Ile Asn
 370 375 380
 Asp Gly Trp Glu Ala Ser Asn Ala Asp His His Ile Arg Ser Leu Asn
 385 390 395 400
 Ile Lys Thr Pro Gly Ala Glu Gln Leu Ile Met Asn Leu Ser Gly Gly
 405 410 415
 Asn Gln Gln Lys Ala Ile Leu Gly Arg Trp Leu Ser Glu Asp Met Lys
 420 425 430
 Val Ile Leu Leu Asp Glu Pro Thr Arg Gly Ile Asp Val Gly Ala Lys
 435 440 445
 His Glu Ile Tyr Asn Val Ile Tyr Glu Leu Ala Lys Arg Gly Val Ala
 450 455 460
 Val Leu Phe Ala Ser Ser Asp Leu Pro Glu Val Leu Gly Val Ala Asp
 465 470 475 480
 Arg Ile Val Val Met Arg Glu Gly Glu Ile Ala Gly Glu Leu Leu His
 485 490 495
 Glu Gln Ala Asn Glu Gln Gln Ala Leu Ser Leu Ala Met Pro Lys Val
 500 505 510
 Ser Gln Ala Val Ala
 515

<210> 6552

<211> 347

<212> PRT

<213> Enterobacter cloacae

<400> 6552

Val Val Arg His Tyr Ser Leu Gln Ile Arg Met Leu Lys Leu Glu Phe
 1 5 10 15
 Thr Met His Lys Phe Thr Lys Ala Leu Ala Ala Ile Gly Leu Ala Ala
 20 25 30
 Val Met Ser Gln Ser Ala Ile Ala Glu Asn Leu Lys Leu Gly Phe Leu
 35 40 45
 Val Lys Gln Pro Glu Glu Pro Trp Phe Gln Thr Glu Trp Lys Phe Ala
 50 55 60
 Asp Lys Ala Gly Lys Asp Leu Gly Phe Glu Val Ile Lys Ile Ala Val
 65 70 75 80
 Pro Asp Gly Glu Lys Thr Leu Asn Ala Ile Asp Ser Leu Ala Ala Ser
 85 90 95
 Gly Ala Lys Gly Phe Val Ile Cys Thr Pro Asp Pro Lys Leu Gly Ser
 100 105 110
 Ala Ile Ala Ala Lys Ala Arg Gly Tyr Asp Met Lys Val Ile Ala Val
 115 120 125
 Asp Asp Gln Phe Val Asn Ala Lys Gly Lys Pro Met Asp Thr Val Pro
 130 135 140

Leu Val Met Met Ala Ala Thr Lys Ile Gly Glu Arg Gln Gly Gln Glu
 145 150 155 160
 Leu Tyr Lys Glu Met Gln Lys Arg Gly Trp Asp Val Lys Glu Thr Ala
 165 170 175
 Val Met Ala Ile Thr Ala Asp Glu Leu Asp Thr Ala Arg Arg Arg Thr
 180 185 190
 Thr Gly Ser Met Asp Ala Leu Lys Ala Ala Gly Phe Pro Glu Lys Gln
 195 200 205
 Ile Tyr Lys Val Pro Thr Lys Ser Asn Asp Ile Pro Gly Ala Phe Asp
 210 215 220
 Ala Ala Asn Ser Met Leu Val Gln His Pro Glu Val Lys His Trp Leu
 225 230 235 240
 Val Val Gly Met Asn Asp Asn Thr Val Leu Gly Gly Val Arg Ala Thr
 245 250 255
 Glu Gly Gln Gly Phe Lys Ala Pro Asp Val Ile Gly Ile Gly Ile Asn
 260 265 270
 Gly Val Asp Ala Val Ser Glu Leu Ser Lys Ala Gln Ala Thr Gly Phe
 275 280 285
 Tyr Gly Ser Leu Leu Pro Ser Pro Asp Val His Gly Tyr Lys Ser Ser
 290 295 300
 Glu Met Leu Tyr Asn Trp Val Thr Lys Gly Ala Glu Pro Pro Lys Phe
 305 310 315 320
 Thr Glu Val Thr His Val Val Leu Ile Thr Arg Asp Asn Phe Lys Glu
 325 330 335
 Glu Leu Ala Lys Lys Gly Leu Gly Gly Lys
 340 345

<210> 6553

<211> 180

<212> PRT

<213> *Enterobacter cloacae*

<400> 6553

Arg Thr Ser Ser Pro Thr Val Asn Lys Asp Met Arg Met Thr Thr His
 1 5 10 15
 Thr Met Met Gln Lys Leu Asn Ala Gln Met Asn Leu Glu Phe Tyr Ala
 20 25 30
 Ser Asn Leu His Leu His Leu Ser Ala Trp Cys Ser Arg Lys Ser Leu
 35 40 45
 Asn Gly Thr Ala Thr Phe Phe Arg Thr Gln Ala Gln Ser Asn Val Thr
 50 55 60
 His Met Met Arg Val Phe Asn Phe Leu Lys Ala Val Gly Ala Asn Pro
 65 70 75 80
 Thr Val Lys Glu Leu Glu Thr Ile Glu Asp Asn Tyr Thr Ser Leu Glu
 85 90 95
 Glu Leu Phe Gln Lys Thr Leu Glu Glu Tyr Glu Gln Arg Cys Ala Lys
 100 105 110
 Leu Ser Lys Leu Ala Asp Glu Ala Lys Ala Gln Gln Asp Ile Ile Thr
 115 120 125
 Leu Thr Phe Leu Arg Asp Met Asp Arg Glu Gln Gln Gln Asp Gly Met
 130 135 140
 Leu Leu Lys Thr Leu Ala Asp Glu Ile Arg Asn Ala Lys Arg Ala Gly
 145 150 155 160
 Ile Cys Leu Glu Gln Thr Asp Arg His Leu Asp Ile Ala Thr Val
 165 170 175
 Gln His His
 180

<210> 6554

<211> 452

<212> PRT

<213> Enterobacter cloacae

<400> 6554

Arg Gly Ser Ile Met Ile Thr Ile Glu Phe Ile Val Ile Ile Leu Cys
 1 5 10 15
 Leu Leu Ile Gly Thr Arg Phe Gly Gly Met Gly Leu Gly Leu Ile Ser
 20 25 30
 Gly Ile Gly Leu Phe Ile Leu Ser Phe Val Phe Gly Leu Gln Pro Gly
 35 40 45
 Lys Pro Pro Val Asp Val Met Leu Thr Ile Leu Ala Val Ile Gly Cys
 50 55 60
 Ala Ala Thr Leu Gln Thr Ala Gly Gly Leu Asn Val Met Met Gln Phe
 65 70 75 80
 Ala Glu Arg Leu Leu Arg Lys His Pro Gln His Ile Thr Leu Leu Ala
 85 90 95
 Pro Phe Thr Thr Trp Met Leu Thr Phe Leu Cys Gly Thr Gly His Val
 100 105 110
 Val Tyr Thr Met Phe Pro Ile Ile Ala Asp Ile Ala Leu Lys Lys Gly
 115 120 125
 Ile Arg Pro Glu Arg Pro Met Ala Val Ala Ser Val Ala Ser Gln Met
 130 135 140
 Ala Ile Thr Ala Ser Pro Val Ser Val Ala Val Val Ser Leu Val Ser
 145 150 155 160
 Ile Leu Gly Ala Gln His Gly Ile Gly His Ala Trp Gly Ile Leu Glu
 165 170 175
 Ile Leu Ala Val Ser Val Pro Ala Ser Leu Ser Gly Val Ala Ile Ala
 180 185 190
 Ala Leu Trp Ser Leu Arg Arg Gly Lys Asn Leu Ala Asp Asp Thr Glu
 195 200 205
 Phe Gln Glu Lys Leu Lys Asp Pro Lys Gln Arg Glu Phe Ile Tyr Gly
 210 215 220
 Gly Thr Glu Thr Leu Met Asp Gln Arg Phe Pro Lys Gln Ala Tyr Trp
 225 230 235 240
 Ser Thr Trp Ile Phe Phe Ala Gly Ile Ala Val Val Val Leu Leu Gly
 245 250 255
 Ala Leu Pro Glu Leu Arg Pro Ala Phe Glu Ile Lys Gly Lys Met Thr
 260 265 270
 Ala Leu Ser Met Asn Leu Val Ile Gln Met Met Met Leu Ile Ala Gly
 275 280 285
 Ala Ile Met Leu Met Thr Cys Lys Val Asn Ala Ser Ala Ile Ser Asn
 290 295 300
 Gly Ala Val Phe Lys Ala Gly Met Val Ala Ile Phe Ser Val Phe Gly
 305 310 315 320
 Val Ala Trp Met Ser Asp Thr Phe Phe Gln Ala His Leu Asp Glu Leu
 325 330 335
 Lys Met Ala Leu Glu Gly Val Val Lys Ser His Pro Trp Thr Tyr Ala
 340 345 350
 Ile Val Leu Phe Leu Val Ser Lys Leu Val Asn Ser Gln Ala Ala Ala
 355 360 365
 Leu Thr Ala Val Ala Pro Met Gly Leu Met Leu Gly Ile Asp Pro Lys
 370 375 380
 Met Leu Val Ala Phe Phe Pro Ala Ser Tyr Gly Tyr Phe Val Leu Pro
 385 390 395 400
 Thr Tyr Pro Ser Asp Leu Ala Cys Ile Gly Phe Asp Arg Ser Gly Thr
 405 410 415
 Thr Arg Ile Gly Lys Phe Ile Ile Asn His Ser Phe Ile Leu Pro Gly
 420 425 430
 Leu Ile Gly Val Ser Cys Ala Cys Val Val Ser Tyr Leu Leu Val Gln
 435 440 445
 Thr Phe Phe
 450

<211> 422

<212> PRT

<213> Enterobacter cloacae

<400> 6555

1	Gly	Arg	Lys	Arg	Met	Ser	Glu	Asn	Val	Ser	Gly	Lys	Glu	Ser	Arg
Gly	Leu	Ser	Pro	Ala	Ala	Leu	Leu	Val	Ala	Gly	Ala	Phe	Phe	Met	Glu
			20					25					30		
Phe	Leu	Asp	Gly	Thr	Val	Ile	Ala	Thr	Ala	Leu	Pro	Asp	Met	Ala	Lys
		35					40					45			
Ser	Phe	Gly	Val	Gln	Ala	Val	Asp	Leu	Asn	Ile	Gly	Ile	Ser	Ala	Tyr
	50					55					60				
Leu	Ile	Thr	Leu	Ala	Val	Leu	Ile	Pro	Ala	Ser	Gly	Trp	Ile	Ala	Asp
65					70					75					80
Arg	Phe	Gly	Ala	Arg	Lys	Val	Phe	Ala	Leu	Ala	Leu	Ala	Ile	Phe	Thr
				85					90					95	
Leu	Ala	Ser	Val	Phe	Cys	Gly	Leu	Ser	Thr	Thr	Leu	Asp	Gln	Phe	Val
			100					105					110		
Ala	Met	Arg	Val	Leu	Gln	Gly	Met	Gly	Gly	Ala	Leu	Met	Val	Pro	Val
		115					120					125			
Gly	Arg	Leu	Ala	Val	Leu	Arg	Thr	Thr	Pro	Lys	His	Gln	Leu	Ile	Thr
	130					135					140				
Ala	Ile	Ala	Thr	Leu	Thr	Trp	Pro	Ala	Leu	Val	Ala	Pro	Ile	Ile	Gly
145					150					155					160
Pro	Pro	Leu	Gly	Gly	Phe	Ile	Thr	Ser	Tyr	Ala	Asp	Trp	Arg	Trp	Ile
			165						170					175	
Phe	Phe	Ile	Asn	Val	Pro	Leu	Gly	Ile	Ile	Ala	Ile	Leu	Leu	Ala	Leu
			180					185					190		
Arg	Ile	Ile	Pro	Asp	Leu	His	Glu	Asp	Thr	Arg	Arg	Pro	Phe	Asp	Leu
		195					200					205			
Pro	Gly	Phe	Val	Val	Thr	Thr	Leu	Ala	Met	Val	Ser	Leu	Val	Tyr	Ala
	210					215					220				
Met	Glu	Leu	Met	Gly	Ala	Glu	Pro	Leu	Arg	Thr	Gly	Leu	Thr	Ala	Thr
225				230						235					240
Leu	Phe	Ile	Val	Gly	Ile	Val	Ala	Leu	Ser	Leu	Ala	Leu	Arg	His	Phe
				245					250					255	
Lys	Arg	Thr	Thr	Trp	Pro	Met	Ile	Arg	Leu	Asp	Ala	Met	Gln	Val	Pro
			260					265					270		
Thr	Phe	Arg	Val	Thr	Leu	Tyr	Gly	Gly	Ser	Leu	Phe	Arg	Ala	Ser	Ile
		275					280					285			
Ser	Ala	Val	Pro	Phe	Leu	Leu	Pro	Leu	Met	Phe	Gln	Val	Gly	Phe	Gly
		290				295					300				
Met	Asp	Ala	Phe	His	Ser	Gly	Leu	Leu	Val	Leu	Ala	Val	Phe	Val	Gly
305				310						315					320
Asn	Leu	Thr	Ile	Lys	Pro	Ala	Thr	Thr	Pro	Leu	Ile	Arg	Ser	Leu	Gly
				325					330					335	
Phe	Lys	Arg	Leu	Leu	Leu	Ile	Asn	Gly	Ala	Leu	Asn	Val	Leu	Ala	Leu
			340					345					350		
Leu	Ala	Cys	Ala	Phe	Leu	Thr	Pro	Gln	Thr	Pro	Ala	Trp	Leu	Val	

<210> 6556
 <211> 80
 <212> PRT
 <213> Enterobacter cloacae

<400> 6556
 Leu Thr Leu Arg Cys Glu Ala Glu Phe Asn Gln Arg Asn Arg Phe Leu
 1 5 10 15
 Asp Arg Ala Glu Arg Asn Arg Val Arg Arg Ser Arg Met Val Gly Glu
 20 25 30
 Ile Asp Val Phe Gln Leu Gly Arg His Leu Phe Ala Tyr Leu Asn Arg
 35 40 45
 Arg Asp Asn Val Asn His Ile Lys Asp Leu Phe Asp Asn Gln Leu Ala
 50 55 60
 Gly Asp Asp Val Arg Tyr Gln Phe Leu Ile Gly Ala Gln Val Leu
 65 70 75 80

<210> 6557
 <211> 212
 <212> PRT
 <213> Enterobacter cloacae

<400> 6557
 Ser Pro Ser Arg Gly Glu Lys Pro Leu Asp Ile Ser Ser Thr His Tyr
 1 5 10 15
 Leu Asp Ile Asn His Ala Asp Ile Val Ala Arg Ile Asp Leu Thr Glu
 20 25 30
 Trp Glu Thr Asn Pro Glu Ser Thr Arg Tyr Leu Thr Phe Leu Lys Gly
 35 40 45
 Arg Val Gly Arg Lys Val Ala Asp Phe Phe Met Asp Phe Leu Gly Ala
 50 55 60
 Ser Glu Gly Leu Asn Ala Lys Ala Gln Asn Lys Gly Leu Leu Gln Ala
 65 70 75 80
 Val Asp Asp Phe Thr Ala Glu Ala Gln Leu Asp Lys Ser Glu Arg Gln
 85 90 95
 Asn Val Arg Gln Gln Val Tyr Ser Tyr Cys Asn Glu Gln Leu Gln Ala
 100 105 110
 Gly Glu Glu Ile Glu Leu Glu Ser Leu Ser Lys Glu Leu Ala Gly Val
 115 120 125
 Ser Glu Val Ser Phe Gln Glu Phe Thr Ala Glu Lys Gly Tyr Glu Leu
 130 135 140
 Glu Glu Ser Phe Pro Ala Asp Arg Ser Thr Leu Arg Gln Leu Thr Lys
 145 150 155 160
 Phe Ala Gly Ser Gly Gly Gly Leu Thr Ile Asn Phe Asp Ala Met Leu
 165 170 175
 Leu Gly Glu Arg Ile Phe Trp Asp Pro Ala Thr Asp Thr Leu Thr Ile
 180 185 190
 Lys Gly Thr Pro Pro Asn Leu Arg Asp Gln Leu Gln Arg Arg Thr Ser
 195 200 205
 Gly Gly Lys
 210

<210> 6558
 <211> 239
 <212> PRT
 <213> Enterobacter cloacae

<400> 6558
 Lys Asp Phe Met Arg Leu Asp Lys Phe Ile Ala Gln Gln Leu Gly Val
 1 5 10 15

Ser Arg Ala Ile Ala Gly Arg Glu Ile Arg Ala Ser Arg Val Thr Val
 20 25 30
 Asp Gly Asp Ile Val Lys Asp Ser Ala Phe Lys Leu Gln Pro Glu His
 35 40 45
 Gln Val Glu Tyr Asp Gly Asn Pro Leu Thr Gln Gln Asn Gly Pro Arg
 50 55 60
 Tyr Phe Met Leu Asn Lys Pro Glu Gly Tyr Val Cys Ser Thr Asp Asp
 65 70 75 80
 Pro Asp His Pro Thr Val Leu Tyr Phe Leu Asp Glu Pro Val Ala His
 85 90 95
 Lys Leu His Ala Ala Gly Arg Leu Asp Ile Asp Thr Thr Gly Leu Val
 100 105 110
 Leu Met Thr Asp Asp Gly Gln Trp Ser His Arg Ile Thr Ser Pro Arg
 115 120 125
 His His Cys Glu Lys Thr Tyr Arg Val Thr Leu Glu Ser Pro Val Ser
 130 135 140
 Asp Asp Thr Ala Glu Gln Phe Ala Lys Gly Val Gln Leu His Asn Glu
 145 150 155 160
 Lys Asp Leu Thr Lys Pro Ala Val Leu Glu Ile Ile Thr Pro Thr Asp
 165 170 175
 Val Arg Leu Thr Ile Ser Glu Gly Arg Tyr His Gln Val Lys Arg Met
 180 185 190
 Phe Ala Ala Val Gly Asn His Val Val Gly Leu His Arg Glu Arg Ile
 195 200 205
 Gly Ala Ile Glu Leu Asp Pro Asp Leu Ala Pro Gly Glu Tyr Arg Pro
 210 215 220
 Leu Thr Glu Glu Glu Ile Ala Ser Val Gly Leu Pro Ser Arg
 225 230 235

<210> 6559

<211> 405

<212> PRT

<213> Enterobacter cloacae

<400> 6559

Ile Gln Glu Asn Ser Val Thr Thr Arg Pro His Ser Ser Phe Lys Ile
 1 5 10 15
 Val Phe Ile Leu Gly Leu Leu Ala Met Leu Met Pro Leu Ser Ile Asp
 20 25 30
 Met Tyr Leu Pro Ala Leu Pro Val Ile Ser Ala Gln Phe Gly Val Pro
 35 40 45
 Ala Gly Ser Ala Gln Met Thr Leu Ser Thr Tyr Ile Leu Gly Phe Ala
 50 55 60
 Leu Gly Gln Leu Phe Tyr Gly Pro Met Ala Asp Ser Leu Gly Arg Lys
 65 70 75 80
 Pro Val Ile Leu Gly Gly Thr Leu Ile Phe Ala Ala Ala Val Ala
 85 90 95
 Cys Ala Leu Ala Gln Ser Ile Asp Gln Leu Ile Val Met Arg Phe Phe
 100 105 110
 His Gly Leu Ala Ala Ala Ala Ser Val Val Ile Asn Ala Leu Met
 115 120 125
 Arg Asp Val Tyr Pro Lys Glu Glu Phe Ser Arg Met Met Ser Phe Val
 130 135 140
 Met Leu Val Thr Thr Ile Ala Pro Leu Val Ala Pro Met Val Gly Gly
 145 150 155 160
 Ala Val Leu Val Trp Phe Ser Trp His Ala Ile Phe Trp Ile Leu Ala
 165 170 175
 Ile Ala Ala Leu Leu Ala Ser Val Met Ile Phe Val Phe Ile Asp Glu
 180 185 190
 Thr Leu Pro Val Glu Arg Arg Gln Lys Phe His Val Arg Thr Thr Leu
 195 200 205

Gly Asn Phe Ala Ser Leu Phe Arg His Lys Arg Val Leu Ser Tyr Met
 210 215 220
 Leu Ala Ser Gly Phe Ser Phe Ala Gly Met Phe Ser Phe Leu Ser Ala
 225 230 235 240
 Gly Pro Phe Val Tyr Ile Glu Leu Asn His Val Ser Pro Gln His Phe
 245 250 255
 Gly Tyr Tyr Phe Ala Leu Asn Ile Val Phe Leu Phe Val Met Thr Ile
 260 265 270
 Ile Asn Ser Arg Phe Val Arg Arg Val Gly Ala Leu Asn Met Phe Arg
 275 280 285
 Ala Gly Leu Trp Ile Gln Phe Val Met Ala Ile Trp Leu Val Leu Ser
 290 295 300
 Ala Leu Leu Gly Val Gly Phe Trp Ala Leu Val Val Gly Val Ala Ala
 305 310 315 320
 Phe Val Gly Cys Val Ser Met Val Ser Ser Asn Ala Met Ala Val Ile
 325 330 335
 Leu Asp Glu Phe Pro His Met Ala Gly Thr Ala Ser Ser Leu Ala Gly
 340 345 350
 Thr Phe Arg Phe Gly Ile Gly Ala Ile Val Gly Ala Leu Leu Ser Thr
 355 360 365
 Ala Thr Phe Asn Thr Ala Trp Pro Met Leu Trp Ala Ile Ala Leu Cys
 370 375 380
 Ala Thr Cys Ser Ile Leu Phe Tyr Leu Tyr Ala Ser Arg Pro Arg Lys
 385 390 395 400
 Thr Ala His Lys
 405

<210> 6560

<211> 124

<212> PRT

<213> Enterobacter cloacae

<400> 6560

Ser Lys Phe Ala Ser Gly Asp Leu Asn Val Asn Thr Leu Gln Leu Ser
 1 5 10 15
 Ile Val His Arg Leu Pro Gln Ser Tyr Arg Trp Ser Thr Gly Phe Ala
 20 25 30
 Gly Ser Lys Val Glu Pro Ile Pro Gln Ser Val Ala Gly Glu Asp Asn
 35 40 45
 Cys Leu Val Ala Leu Lys Leu Leu Ser Pro Ser Asp Glu Asn Ala Trp
 50 55 60
 Pro Val Met Glu Arg Leu Ser Gln Ala Leu Thr Asp Ile Glu Val Asp
 65 70 75 80
 Ser Ser Val Leu Glu Cys Glu Gly Glu Pro Cys Leu Phe Val Asn Ser
 85 90 95
 Gln Asp Glu Phe Ala Ala Thr Cys Arg Leu Lys Asn Phe Gly Val Ala
 100 105 110
 Ile Ala Glu Pro Phe Ser Gly Gln Tyr Pro Phe
 115 120

<210> 6561

<211> 133

<212> PRT

<213> Enterobacter cloacae

<400> 6561

Lys Arg Met Glu Gln Val Ala Gln Arg Ala Ile Ala His Ser Ile Gly
 1 5 10 15
 Gln Ala Val Leu Asn Val Ala Val Glu Ser Ser Ala Pro Thr Ile Ala
 20 25 30
 Pro Ile Pro Lys Arg Asn Val Pro Ala Ser Asp Glu Ala Val Pro Ala

```

      35      40      45
Ile Cys Gly Asn Ser Ser Arg Ile Thr Ala Ile Ala Leu Asp Glu Thr
  50      55      60
Ile Asp Thr Gln Pro Thr Asn Ala Ala Thr Pro Thr Thr Ser Ala Gln
  65      70      75      80
Lys Pro Thr Pro Ser Asn Ala Leu Asn Thr Ser Gln Ile Ala Ile Thr
      85      90      95
Asn Trp Ile His Ser Pro Ala Arg Asn Ile Phe Ser Ala Pro Thr Arg
      100      105      110
Arg Thr Lys Arg Leu Leu Ile Met Val Ile Thr Asn Arg Asn Thr Ile
      115      120      125
Phe Ser Ala Lys
      130

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<210> 6562

<211> 592

<212> PRT

<213> Enterobacter cloacae

<400> 6562

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Leu Asn Arg Glu Ala Met Thr Phe Thr Leu Arg Pro Tyr Gln Gln Glu
  1      5      10      15
Ala Val Asp Ala Thr Leu Ala Trp Phe Arg Lys His Arg Glu Pro Ala
      20      25      30
Ala Ile Val Leu Pro Thr Gly Ala Gly Lys Ser Leu Val Ile Ala Glu
      35      40      45
Leu Ala Arg Leu Ala Arg Gly Arg Val Leu Val Leu Ala His Val Lys
      50      55      60
Glu Leu Val Ala Gln Asn His Ala Lys Tyr Cys Ala Leu Gly Leu Glu
      65      70      75      80
Ala Asp Ile Phe Ala Ala Gly Leu Lys Arg Lys Glu Ser His Gly Lys
      85      90      95
Val Val Phe Gly Ser Val Gln Ser Val Ala Arg Asn Leu Glu Leu Phe
      100      105      110
Arg Ser Glu Phe Ser Leu Leu Ile Val Asp Glu Cys His Arg Ile Ser
      115      120      125
Asp Asp Asp Asp Ser Gln Tyr Gln Gln Ile Leu Thr His Leu Lys Lys
      130      135      140
Val Asn Pro His Leu Arg Leu Leu Gly Leu Thr Ala Thr Pro Phe Arg
      145      150      155      160
Leu Gly Lys Gly Trp Ile Tyr Gln Phe His Tyr His Gly Met Val Arg
      165      170      175
Gly Asp Glu Lys Ala Leu Phe Arg Asp Cys Ile Tyr Glu Leu Pro Leu
      180      185      190
Arg Tyr Met Ile Lys His Gly Tyr Leu Thr Pro Pro Glu Arg Leu Asp
      195      200      205
Met Pro Val Val Gln Tyr Asp Phe Ser Arg Leu Gln Ala Gln Ser Asn
      210      215      220
Gly Leu Phe Ser Glu Ala Asp Leu Asn His Glu Leu Lys Lys Gln Lys
      225      230      235      240
Arg Ile Thr Pro His Ile Ile Ser Gln Ile Glu Glu Phe Ala Gln Thr
      245      250      255
Arg Lys Gly Val Met Ile Phe Ala Ala Thr Val Glu His Ala Arg Glu
      260      265      270
Ile Thr Gly Leu Leu Pro Ala Asp Asp Ala Ala Leu Ile Thr Gly Glu
      275      280      285
Thr Pro Gly Pro Glu Arg Asp Ser Leu Ile Glu Asp Phe Lys Ala Gln
      290      295      300
Arg Phe Arg Tyr Leu Val Asn Val Ser Val Leu Thr Thr Gly Phe Asp
      305      310      315      320
Ala Pro His Val Asp Leu Ile Ala Ile Leu Arg Pro Thr Glu Ser Val

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          325          330          335
Ser Leu Tyr Gln Gln Ile Val Gly Arg Gly Leu Arg Leu Ala Pro Gly
          340          345          350
Lys Thr Asp Cys Leu Ile Leu Asp Tyr Ala Gly Asn Pro His Asp Leu
          355          360          365
Tyr Ser Pro Glu Val Gly Thr Pro Lys Gly Lys Ser Asp Asn Val Pro
          370          375          380
Val Gln Val Phe Cys Pro Ala Cys Gly Phe Ala Asn Thr Phe Trp Gly
385          390          395          400
Lys Thr Thr Ala Asp Gly Thr Leu Ile Glu His Phe Gly Arg Arg Cys
          405          410          415
Gln Gly Trp Phe Glu Asp Asp Glu Gly His Arg Glu Gln Cys Asp Phe
          420          425          430
Arg Phe Arg Phe Lys Asn Cys Pro Gln Cys Asn Ala Glu Asn Asp Ile
          435          440          445
Ala Ala Arg Arg Cys Arg Glu Cys Asp Thr Val Leu Val Asp Pro Asp
          450          455          460
Asp Met Leu Lys Ala Ala Leu Lys Leu Lys Asp Ala Leu Val Leu Arg
465          470          475          480
Cys Ser Gly Met Ala Leu Gln Pro Gly Ala Asp Glu Lys Gly Glu Trp
          485          490          495
Leu Lys Ile Thr Tyr Tyr Asp Glu Asp Gly Ala Asp Val Ser Glu Arg
          500          505          510
Phe Arg Val Gln Thr Ser Ala Gln Arg Thr Ala Phe Glu Gln Leu Phe
          515          520          525
Ile Arg Pro His Thr Arg Thr Pro Gly Val Pro Leu Arg Trp Leu Thr
          530          535          540
Val Ala Asp Ile Val Arg Gln Gln Ala Leu Leu Arg His Pro Asp Phe
545          550          555          560
Val Val Ala Arg Lys Lys Gly Gln Phe Trp Gln Val Arg Glu Lys Val
          565          570          575
Phe Asp Tyr Glu Gly Arg Phe Arg Arg Ala Asn Glu Leu Arg Gly
          580          585          590

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<210> 6563

<211> 345

<212> PRT

<213> Enterobacter cloacae

<400> 6563

```

Gly Pro Leu Met Ser Arg Leu Ser Pro Val Asn Gln Ala Arg Trp Ala
1          5          10          15
Arg Phe Arg His Asn Arg Arg Gly Tyr Trp Ser Leu Trp Ile Phe Ala
          20          25          30
Val Leu Phe Ala Leu Ser Met Cys Ser Glu Leu Ile Ala Asn Asp Lys
          35          40          45
Pro Leu Leu Val His Phe Lys Asp Arg Trp Tyr Val Pro Val Leu Thr
          50          55          60
Thr Tyr Ser Glu Ser Asp Phe Gly Gly Pro Phe Ala Thr Pro Ala Glu
65          70          75          80
Tyr Gln Asp Pro Trp Leu Arg Glu Gln Ile Ala Gln His Gly Trp Ala
          85          90          95
Ile Trp Ala Pro Ile Arg Phe Gly Ala Asn Ser Ile Asn Phe Ala Thr
          100          105          110
Ser Thr Pro Phe Pro Ser Pro Pro Ser Ala Gln Asn Trp Leu Gly Thr
          115          120          125
Asp Ala Asn Gly Gly Asp Val Leu Ala Arg Ile Leu Tyr Gly Thr Arg
          130          135          140
Ile Ser Leu Leu Phe Gly Leu Met Leu Thr Leu Phe Ser Ser Val Met
145          150          155          160
Gly Val Val Ala Gly Ala Val Gln Gly Tyr Tyr Gly Gly Lys Ile Asp

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<210> 6564
<211> 302
<212> PRT
<213> Enterobacter cloacae
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Gly 1	Pro	Gly	Leu	Ala 5	Thr	Phe	Ser	Glu	Asn 10	His	Thr	Arg	Ala	Val 15	Arg
Gly	Leu	Asn 20	Pro	Glu	Val	Ile	Ala	Glu 25	Ile	Thr	His	Arg	Tyr 30	Gly	Leu
Asn	Lys	Pro 35	Leu	His	Glu	Arg	Tyr 40	Cys	Arg	Met	Leu	Trp 45	Asp	Tyr	Val
Arg	Phe 50	Asp	Phe	Gly	Asp	Ser 55	Leu	Phe	Arg	Ser	Ala 60	Ser	Val	Leu	Thr
Leu 65	Ile	Lys	Gln	Ser	Leu 70	Pro	Val	Ser	Ile	Thr 75	Leu	Gly	Leu	Trp	Gly 80
Thr	Leu	Ile	Ile	Tyr 85	Leu	Val	Ser	Ile	Pro 90	Leu	Gly	Ile	Arg	Lys 95	Ala
Val	Tyr	Asn 100	Gly	Ser	Arg	Phe	Asp	Ile 105	Trp	Ser	Ser	Thr	Phe 110	Ile	Ile
Ile	Gly	Tyr 115	Ala	Ile	Pro	Ala	Phe 120	Leu	Phe	Ala	Val	Leu 125	Leu	Ile	Val
Phe	Phe 130	Ala	Gly	Gly	Ser	Tyr 135	Phe	Asp	Leu	Phe	Pro 140	Leu	Arg	Gly	Leu
Val 145	Ser	Ala	Asp	Phe	Ser 150	Thr	Leu	Pro	Trp	Tyr 155	Gln	Lys	Ile	Thr	Asp 160
Tyr	Phe	Trp	His	Ile 165	Thr	Leu	Pro	Val	Leu 170	Ala	Thr	Val	Ile	Gly 175	Gly
Phe	Ala	Ala	Leu 180	Thr	Met	Leu	Thr	Lys 185	Asn	Ala	Phe	Leu	Asp 190	Glu	Ile
Arg	Lys	Gln 195	Tyr	Val	Val	Thr	Ala 200	Arg	Ala	Lys	Gly	Val	Gly 205	Glu	Lys
Gln	Ile 210	Met	Trp	Lys	His	Val 215	Phe	Arg	Asn	Ala	Met 220	Leu	Leu	Val	Ile
Ala 225	Gly	Phe	Pro	Ala	Thr 230	Phe	Ile	Ser	Met	Phe	Thr 235	Gly	Ser	Leu	Leu
Leu	Ile	Glu	Val	Met	Phe	Ser	Leu	Asn	Gly	Leu	Gly	Leu	Leu	Gly	Tyr

				245					250				255				
Glu	Ala	Thr	Val	Ser	Arg	Asp	Tyr	Pro	Val	Met	Phe	Gly	Thr	Leu	Tyr		
			260					265					270				
Ile	Phe	Thr	Leu	Ile	Gly	Leu	Leu	Leu	Asn	Ile	Ile	Ser	Asp	Ile	Ser		
		275					280						285				
Tyr	Thr	Leu	Val	Asp	Pro	Arg	Ile	Asp	Phe	Glu	Gly	Arg					
	290					295					300						

<210> 6565

<211> 548

<212> PRT

<213> Enterobacter cloacae

<400> 6565

Phe	Leu	Leu	Ala	Lys	Pro	Cys	Ala	Met	Pro	Ser	Ile	Pro	Thr	Arg	Arg		
1				5					10					15			
Tyr	Asp	Met	Thr	Arg	Pro	Leu	Leu	Ser	Ile	Glu	Asn	Leu	Ser	Ile	Ala		
			20					25					30				
Phe	Ser	Lys	Gln	Gly	Glu	Ser	Arg	Thr	Val	Val	Thr	Asp	Leu	Ser	Leu		
		35					40					45					
Gln	Ile	Gln	Arg	Gly	Glu	Thr	Leu	Ala	Leu	Val	Gly	Glu	Ser	Gly	Ser		
	50					55					60						
Gly	Lys	Ser	Val	Ser	Ala	Leu	Ser	Val	Leu	Arg	Leu	Leu	Pro	Ser	Pro		
65					70				75						80		
Pro	Val	Ser	Tyr	Pro	Gln	Gly	Asp	Ile	Leu	Phe	His	Gly	Gln	Ser	Leu		
				85					90				95				
Leu	Asn	Ala	Asp	Glu	Gln	Thr	Leu	Arg	Gly	Ile	Arg	Gly	Asn	Asn	Ile		
			100					105					110				
Ala	Met	Ile	Phe	Gln	Glu	Pro	Met	Val	Ser	Leu	Asn	Pro	Leu	His	Thr		
		115					120					125					
Leu	Glu	Lys	Gln	Leu	Tyr	Glu	Val	Leu	Ser	Leu	His	Arg	Gly	Met	Arg		
	130					135					140						
Lys	Glu	Ala	Ala	Arg	Gly	Glu	Ile	Leu	Asp	Cys	Leu	Glu	Arg	Thr	Gly		
145					150				155						160		
Ile	Arg	His	Ala	Ala	Lys	Arg	Leu	Asn	Asp	Phe	Pro	His	Gln	Leu	Ser		
				165				170						175			
Gly	Gly	Glu	Arg	Gln	Arg	Val	Met	Ile	Ala	Met	Ala	Leu	Leu	Thr	Arg		
			180					185					190				
Pro	Glu	Leu	Leu	Ile	Ala	Asp	Glu	Pro	Thr	Thr	Ala	Leu	Asp	Val	Thr		
		195					200					205					
Val	Gln	Ala	Gln	Ile	Leu	Gln	Leu	Leu	Arg	Glu	Leu	Arg	Asp	Glu	Leu		
	210					215					220						
Asn	Met	Ser	Leu	Leu	Phe	Ile	Thr	His	Asn	Leu	Ser	Ile	Val	Lys	Lys		
225					230				235						240		
Leu	Ala	Asp	Ala	Val	Ala	Val	Met	Gln	Asn	Gly	Arg	Cys	Val	Glu	Gln		
				245				250					255				
Asn	Arg	Ala	Ser	Ala	Leu	Leu	Ser	Ala	Pro	Gln	His	Pro	Tyr	Thr	Gln		
			260					265					270				
Arg	Leu	Leu	Asp	Ser	Glu	Pro	Ala	Gly	Asp	Pro	Val	Pro	Leu	Asn	Ala		
		275					280					285					
Asp	Cys	Ala	Pro	Leu	Leu	Ser	Val	Glu	Gly	Leu	Ser	Val	Ser	Phe	Pro		
	290					295					300						
Ile	Arg	Lys	Gly	Ile	Leu	Arg	Arg	Val	Val	Asp	His	Asn	His	Val	Leu		
305					310					315					320		
Lys	Asp	Met	Ser	Phe	Ala	Leu	Arg	Pro	Gly	Glu	Ser	Leu	Gly	Leu	Val		
				325					330					335			
Gly	Glu	Ser	Gly	Ser	Gly	Lys	Ser	Thr	Gly	Leu	Ala	Leu	Leu	Arg			
			340					345				350					
Leu	Ile	Ala	Ser	Gln	Gly	Ser	Ile	Val	Phe	Asp	Gly	Met	Pro	Leu	Gln		
		355					360				365						
Asn	Leu	Asn	Arg	Arg	Met	Met	Leu	Pro	Val	Arg	Pro	Arg	Met	Gln	Val		

```

      370                      375                      380
Val Phe Gln Asp Pro Asn Ser Ser Leu Asn Pro Arg Leu Ser Val Leu
385                      390                      395                      400
Gln Ile Ile Glu Glu Gly Leu Arg Val His Gln Pro Thr Met Thr Ala
      405                      410                      415
Gln Gln Arg Glu Ile Asp Val Lys Arg Val Met Glu Glu Val Gly Leu
      420                      425                      430
Asp Pro Glu Thr Arg His Arg Tyr Pro Ala Glu Phe Ser Gly Gly Gln
      435                      440                      445
Arg Gln Arg Ile Ala Ile Ala Arg Ala Leu Ile Leu Lys Pro Glu Leu
      450                      455                      460
Ile Val Leu Asp Glu Pro Thr Ser Ser Leu Asp Arg Thr Val Gln Ala
465                      470                      475                      480
Gln Ile Leu Ala Leu Leu Lys Gly Leu Gln Glu Lys His Arg Leu Ala
      485                      490                      495
Tyr Ile Phe Ile Ser His Asp Leu Gln Val Val Arg Ala Leu Cys His
      500                      505                      510
Gln Val Val Val Leu Arg Gln Gly Glu Val Val Glu Gln Gly Glu Cys
      515                      520                      525
Gln Arg Val Phe Thr Ala Pro Thr Gln Asp Tyr Thr Arg Gln Leu Leu
      530                      535                      540
Ser Ala Asp
545

```

```

<210> 6566
<211> 160
<212> PRT
<213> Enterobacter cloacae

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<400> 6566
Arg Gln Pro Asp Ala Gly Asn Leu Phe Phe Arg Gln Arg Ala Ile Phe
1      5      10      15
Pro Trp Arg Gln Val Trp Ile Glu Phe Asn Arg Ala Asp Thr Phe Thr
      20      25      30
Met Gln Pro His Asn Val Val Ala His Gly Gly Lys His Pro Phe His
      35      40      45
Leu Val Ile Ala Ala Phe Thr Asp Gly Gln Ala His Val Ser Trp Ser
      50      55      60
Asp Asp Phe Gln His Arg Arg Phe Gly Gln Ile Phe Phe Ile Met Gln
65      70      75      80
Leu Asn Ala Phe Cys Glu Leu Leu Cys Arg Val Ile Arg Asp Arg Arg
      85      90      95
Leu Lys Arg His Pro Ile Gly Phe Leu Thr Val Met Ala Arg Gly Gly
      100     105     110
Asp Ala Met Arg Pro Leu Ala Val Ile Gly His Gln His Gln Ala Gly
      115     120     125
Gly Ile Asn Ile Gln Ser Pro Cys Arg Met Gln Leu Val Arg His Arg
      130     135     140
Phe Val Glu Glu Val Glu His Arg Arg Val Ile Arg Ile Val Arg
145     150     155     160

```

```

<210> 6567
<211> 121
<212> PRT
<213> Enterobacter cloacae

```

```

<400> 6567
Thr Asp Val Thr Phe Arg Phe Val Glu His Glu Val Ala Arg Ala Ile
1      5      10      15
Leu Leu Gly Gln Arg Val Ala Val Ile Leu His Leu Val Leu Arg Leu
      20      25      30

```


Glu Phe Lys Ser Ala Val Phe His Asn Val Ala Val His Gly Tyr Ala
 35 40 45
 Ala Gly Ala Asn Phe Thr Pro Gly Asn Ser Ala Ala Tyr Ala Glu Leu
 50 55 60
 Leu Ser Asp Lys Leu Ile Lys Ser His Glu Ile Phe Leu Ala Leu Met
 65 70 75 80
 Val Leu Glu Val Gly Leu Arg Val Arg Lys Arg Ser Ser Gln Lys Gln
 85 90 95
 Phe Ser Ile Met Val Trp Leu Arg His Ser Arg Glu Lys Val Ser Trp
 100 105 110
 His Thr Ile Cys Glu Leu Thr Glu
 115 120

<210> 6568

<211> 103

<212> PRT

<213> Enterobacter cloacae

<400> 6568

Gly Phe Lys Tyr Arg Glu Lys Ser Met Phe Thr Ile Glu Ala Glu Val
 1 5 10 15
 Arg Asn Val Gln Gly Lys Gly Ala Ser Arg Arg Leu Arg Thr Ala Asn
 20 25 30
 Lys Phe Pro Ala Ile Val Tyr Gly Gly Glu Ala Ala Pro Val Ala Ile
 35 40 45
 Glu Leu Asp His Asp Lys Val Trp Asn Met Gln Thr Lys Ala Glu Phe
 50 55 60
 Tyr Ser Glu Val Leu Thr Ile Val Val Gly Gly Lys Glu Glu Lys Val
 65 70 75 80
 Lys Val Gln Ala Val Gln Arg His Ala Phe Lys Pro Lys Leu Thr His
 85 90 95
 Ile Asp Phe Val Arg Ala
 100

<210> 6569

<211> 496

<212> PRT

<213> Enterobacter cloacae

<400> 6569

Glu Ile Thr Met Leu Leu Ser Ser Thr Arg Lys Asp Trp Leu Gly Asn
 1 5 10 15
 Val Arg Gly Asp Val Leu Ala Gly Ile Val Val Ala Leu Ala Leu Ile
 20 25 30
 Pro Glu Ala Ile Ala Phe Ser Ile Ile Ala Gly Val Asp Pro Gln Val
 35 40 45
 Gly Leu Tyr Ser Ala Phe Cys Ile Pro Leu Val Met Ala Phe Phe Gly
 50 55 60
 Gly Arg Pro Ala Met Ile Ser Ser Ser Thr Gly Ala Met Ala Leu Leu
 65 70 75 80
 Met Val Thr Leu Val Lys Asp His Gly Leu Gln Tyr Leu Leu Ala Ala
 85 90 95
 Ser Ile Leu Thr Gly Val Phe Gln Leu Ile Ala Gly Tyr Leu Lys Leu
 100 105 110
 Gly Gly Leu Met Arg Phe Val Ser Arg Ser Val Val Thr Gly Phe Val
 115 120 125
 Asn Ala Leu Ala Ile Leu Ile Phe Met Ala Gln Leu Pro Glu Leu Thr
 130 135 140
 Asn Val Thr Trp His Val Tyr Ala Met Thr Ala Ala Gly Leu Gly Ile
 145 150 155 160
 Ile Tyr Leu Phe Pro Tyr Ile Asn Lys Thr Ile Pro Ser Pro Leu Val

```
<210> 6570
<211> 282
<212> PRT
<213> Enterobacter cloacae
```

Gln 1	Thr	Gly	Gly	Lys 5	Thr	Met	Asn	Asn	Thr 10	Val	Thr	Ala	Cys	Val 15	Asp
Gly	Ser	Leu	Ser 20	Thr	Arg	Ser	Val	Cys 25	Glu	Tyr	Ala	Ala	Trp 30	Ala	Ala
Arg	Thr	Leu	Gln 35	Ser	Gln	Leu	Ala 40	Leu	Leu	His	Val	Ile 45	Glu	Lys	Asp
Ser	Thr 50	Pro	Val	Val	Ser	Asp 55	Leu	Thr	Gly	Thr	Leu 60	Gly	Ile	Asp	Ser
Gln 65	Gln	Leu	Leu	Thr 70	Asp	Glu	Leu	Val	Glu	Ile 75	Glu	Gly	Gln	Arg	Asn
Arg	Leu	Leu	Met 85	Ala	Gln	Gly	Lys	Ala 90	Ile	Leu	Glu	Ser	Cys 95	Ala	Glu
Leu	Leu	Gln	Lys	Gln	Gly	Ser	Pro	Asp	Val	Leu	Leu	Met	Gln	Lys	His

```
<210> 6571
<211> 242
<212> PRT
<213> Enterobacter cloacae
```

[illegible]

<210> 6572
 <211> 512
 <212> PRT
 <213> Enterobacter cloacae

<400> 6572

Phe	Met	His	Ser	Tyr	Glu	Asp	Arg	Ile	Arg	Ala	Val	Glu	Leu	Tyr	Tyr
1			5						10					15	
Arg	Tyr	Gly	Lys	Lys	Ala	Ser	Val	Val	Val	Met	Glu	Leu	Gly	Tyr	Pro
		20						25					30		
Ser	Thr	Lys	Gln	Leu	Gly	Arg	Trp	Val	Arg	Ile	Tyr	Glu	Glu	Lys	Gly
		35					40					45			
Asp	Leu	Pro	Arg	Glu	Leu	Lys	Pro	Arg	Glu	Arg	Tyr	Ser	Arg	Thr	Gln
	50					55					60				
Lys	Ile	Ala	Ala	Val	Glu	His	Tyr	Leu	Thr	His	Gly	Gly	Cys	Leu	Ser
65					70					75					80
Tyr	Thr	Arg	Arg	Ala	Ile	Gly	Tyr	Pro	Ser	Asn	Glu	Ile	Leu	Lys	Arg
				85					90					95	
Trp	Ile	Glu	Glu	Phe	Tyr	Pro	Asn	Ala	Arg	Pro	Leu	Val	Ile	Arg	Ser
			100					105					110		
Gly	Thr	Asn	Lys	Cys	Phe	Ser	Pro	Glu	Glu	Arg	Ser	Gln	Ala	Val	Arg
		115					120					125			
Glu	Leu	Cys	Asn	Arg	Arg	Gly	Thr	Ala	Arg	Lys	Val	Ala	Gln	Ser	Ile
	130					135					140				
Gly	Val	Ser	Val	Pro	Val	Leu	Tyr	Lys	Trp	Lys	Lys	Asp	Leu	Ile	Ser
145					150					155					160
Asp	Glu	Ala	Tyr	Gln	Ser	Met	Arg	Lys	Arg	Lys	Ala	Ala	Pro	Gln	Asp
				165					170					175	
Lys	Asn	Gln	Asp	Ala	Leu	Leu	Gly	Glu	Ile	Gln	Arg	Leu	Arg	Gln	Gln
			180					185					190		
Val	His	Gln	Leu	Gln	Leu	Glu	Arg	Asp	Ile	Leu	Thr	Lys	Ala	Asn	Glu
			195				200					205			
Leu	Ile	Lys	Lys	Asp	Leu	Gly	Ile	Ser	Phe	Leu	Thr	Leu	Lys	Asn	Arg
	210					215					220				
Glu	Lys	Thr	Leu	Ile	Val	Asp	Ala	Leu	Lys	Lys	Lys	Tyr	Pro	Val	Ala
225					230					235					240
Glu	Leu	Leu	Ser	Val	Leu	Gln	Leu	Ala	Arg	Ser	Cys	Tyr	Phe	Tyr	His
				245					250					255	
Lys	Ala	Ser	Lys	Arg	Leu	Cys	Asp	Lys	Tyr	Ala	Glu	Ile	Arg	Val	Ile
			260					265					270		
Met	Ala	Asp	Ile	Phe	Glu	Glu	Asn	Tyr	Arg	Cys	Tyr	Gly	Tyr	Arg	Arg
		275					280					285			
Leu	His	Ala	Met	Leu	Arg	Gly	Asn	Asn	Arg	Val	Ile	Ser	Glu	Lys	Val
	290					295					300				
Val	Arg	Arg	Leu	Met	Ala	Glu	Glu	Gln	Leu	Val	Val	Lys	Arg	Thr	Arg
305					310					315					320
Arg	Arg	Arg	Tyr	Asn	Ser	Tyr	Cys	Gly	Glu	Ile	Gly	Pro	Ala	Pro	Glu
				325					330					335	
Asn	Leu	Leu	Ala	Arg	Asp	Phe	Ser	Ser	Cys	Arg	Pro	Asn	Glu	Lys	Trp
			340					345					350		
Leu	Thr	Asp	Ile	Thr	Glu	Phe	Gln	Leu	Pro	Ala	Gly	Lys	Val	Tyr	Leu
		355					360					365			
Ser	Pro	Val	Ile	Asp	Cys	Phe	Asp	Gly	Gln	Val	Val	Ser	Trp	Ser	Ile
	370					375					380				
Gly	Thr	Arg	Pro	Asp	Ala	Thr	Leu	Val	Asn	Thr	Met	Leu	Asp	Glu	Ala
385					390					395					400
Leu	Asp	Thr	Leu	Asn	Glu	His	Asp	Lys	Pro	Val	Ile	His	Ser	Asp	Arg
				405					410					415	
Gly	Gly	His	Tyr	Arg	Trp	Pro	Gly	Trp	Leu	Asp	Arg	Ile	Asn	Thr	Ser

```
<210> 6573
<211> 481
<212> PRT
<213> Enterobacter cloacae
```

Val 1	Lys	Met	Ser	Gly 5	Val	Tyr	Asn	Gln	Val 10	Arg	Ile	Thr	Met	Thr 15	Ala
Leu	Ala	Ala	Glu	Phe	Phe	Thr	Leu	Asp	Glu	Val	Asn	Arg	Leu	Lys	Ile
			20					25					30		
Ile	Gln	Asp	Val	Ile	Asp	Arg	Arg	Leu	Thr	Thr	Gln	Met	Ala	Ala	Gln
		35					40					45			
Arg	Leu	Gly	Ile	Ser	Asp	Arg	Gln	Cys	Arg	Arg	Leu	Ala	Arg	Tyr	
	50				55						60				
Arg	Glu	Asp	Gly	Pro	Ile	Gly	Met	Thr	Ser	Arg	Arg	Gly	Lys	Ser	
65					70					75				80	
Ser	Asn	Asn	Gln	Leu	Pro	Gln	Gly	Leu	Ala	Ala	Tyr	Ala	Leu	Asn	Ile
			85						90					95	
Ile	Arg	Glu	Arg	Tyr	Asn	Asp	Phe	Gly	Pro	Thr	Leu	Ala	Cys	Glu	Lys
			100					105					110		
Leu	Ser	Glu	Val	His	Gly	Val	His	Leu	Ser	Lys	Glu	Thr	Val	Arg	Lys
		115					120					125			
Leu	Met	Thr	Gln	Ala	Ser	Leu	Trp	Val	Pro	Arg	Lys	Gln	Arg	Ala	Pro
	130					135					140				
Lys	Ile	Gln	Gln	Pro	Arg	Tyr	Arg	Arg	Ala	Cys	Ala	Gly	Glu	Leu	Ile
145					150					155				160	
Gln	Ile	Asp	Gly	Cys	Asp	His	His	Trp	Phe	Glu	Asn	Arg	Gly	Pro	Lys
			165						170					175	
Cys	Thr	Ala	Leu	Val	Tyr	Val	Asp	Asp	Ala	Thr	Ser	Arg	Leu	Met	Gln
			180					185					190		
Leu	Leu	Phe	Val	Lys	Ser	Glu	Ser	Thr	Phe	Thr	Tyr	Phe	Glu	Ala	Thr
		195					200					205			
Arg	Gly	Tyr	Ile	Glu	Lys	His	Gly	Lys	Pro	Leu	Ala	Leu	Tyr	Ser	Asp
	210					215					220				
Lys	Ala	Ser	Val	Phe	Arg	Ile	Asn	Asn	Lys	Asn	Ala	Thr	Gly	Gly	Asp
225					230					235				240	
Gly	Asp	Thr	Gln	Phe	Gly	Arg	Ala	Met	His	Glu	Leu	Asn	Ile	Gln	Thr
			245						250					255	
Ile	Cys	Ala	Glu	Thr	Ser	Ala	Ala	Lys	Gly	Arg	Val	Glu	Arg	Ala	His
			260					265					270		
Leu	Thr	Leu	Gln	Asp	Arg	Leu	Val	Lys	Glu	Leu	Arg	Leu	Gln	Gly	Ile
		275					280					285			
Ser	Ser	Met	Glu	Ala	Ala	Asn	Ala	Phe	Ala	Glu	Glu	Phe	Met	Asn	Asp
	290					295					300				
Tyr	Asn	Arg	Arg	Phe	Ala	Lys	Ala	Pro	Arg	Gln	Glu	Phe	Asp	Val	His
305					310					315				320	
Arg	Glu	Leu	Asp	Val	Asp	Asp	Asp	Leu	Asp	Met	Val	Phe	Asn	Trp	Arg
			325						330					335	
Glu	Ala	Arg	Lys	Val	Ser	Lys	Ser	Leu	Thr	Val	Gln	Tyr	Asp	Lys	Val

```
<210> 6574
<211> 155
<212> PRT
<213> Enterobacter cloacae
```

```
<210> 6575
<211> 125
<212> PRT
<213> Enterobacter cloacae
```

<400> 6575																
Lys	Leu	Ser	His	Met	Lys	Tyr	His	Met	Tyr	Cys	Tyr	Phe	Phe	Thr	Arg	
1				5					10					15		
Leu	Ser	Met	Leu	Gln	Pro	Val	Gln	Leu	Phe	Lys	Leu	Leu	Ala	Asp	Glu	
			20					25					30			
Thr	Arg	Ser	Thr	Ile	Val	Met	Leu	Leu	Arg	Glu	Ser	Gly	Glu	Met	Cys	
		35					40					45				
Val	Cys	Asp	Ile	Cys	Ala	Ala	Thr	Ala	Glu	Ser	Gln	Pro	Lys	Ile	Ser	
	50					55					60					

Arg His Met Ala Leu Leu Arg Glu Ala Glu Leu Val Ile Asp Arg Arg
 65 70 75 80
 Glu Gly Lys Trp Val His Tyr Arg Leu Ser Pro His Met Pro Ala Trp
 85 90 95
 Ala Ala Gly Ile Ile Asp Thr Ala Trp Asn Cys Glu Arg Glu Asn Ile
 100 105 110
 Arg Asn Lys Leu Ser Ser Val Ala Ser Val Ser Cys
 115 120 125

<210> 6576

<211> 434

<212> PRT

<213> Enterobacter cloacae

<400> 6576

Met Glu Phe Leu Met Leu Leu Ala Gly Ala Ile Phe Leu Phe Thr Leu
 1 5 10 15
 Val Leu Val Ile Trp Gln Pro Arg Gly Leu Gly Ile Gly Trp Ser Ala
 20 25 30
 Ser Leu Gly Ala Ile Leu Ala Leu Leu Thr Gly Val Val His Leu Gly
 35 40 45
 Asp Ile Pro Val Val Trp Gln Ile Val Trp Asn Ala Thr Ala Thr Phe
 50 55 60
 Ile Ala Val Ile Ile Ile Ser Leu Leu Leu Asp Glu Ser Gly Phe Phe
 65 70 75 80
 Glu Trp Ala Ala Leu His Val Ala Arg Trp Gly Asn Gly Arg Gly Arg
 85 90 95
 Leu Leu Phe Thr Trp Ile Val Leu Leu Gly Ala Met Val Ala Ala Leu
 100 105 110
 Phe Ala Asn Asp Gly Ala Ala Leu Ile Leu Thr Pro Ile Val Ile Ala
 115 120 125
 Met Leu Leu Ala Leu Gly Phe Ser Arg Gly Ala Thr Leu Ala Phe Ile
 130 135 140
 Met Ala Ala Gly Phe Ile Ala Asp Thr Ala Ser Leu Pro Leu Ile Val
 145 150 155 160
 Ser Asn Leu Val Asn Ile Val Ser Ala Asp Phe Phe Lys Leu Gly Phe
 165 170 175
 Ser Glu Tyr Ala Ala Val Met Val Pro Val Asn Leu Ala Ala Ile Ala
 180 185 190
 Ala Thr Leu Val Met Leu His Leu Phe Phe Arg Lys Asp Ile Pro Ala
 195 200 205
 Val Tyr Asp Val Ser Leu Leu Lys Glu Pro Lys Asp Ala Ile Arg Asp
 210 215 220
 Val Asn Thr Phe Lys Thr Gly Trp Leu Val Leu Val Leu Leu Val
 225 230 235 240
 Gly Phe Phe Gly Leu Glu Pro Leu Gly Val Pro Val Ser Leu Val Ala
 245 250 255
 Ala Ala Gly Ala Leu Leu Leu Phe Ala Val Ala Lys Lys Gly His Ala
 260 265 270
 Ile Asn Thr Gly Lys Val Leu Arg Gly Ala Pro Trp Gln Ile Val Ile
 275 280 285
 Phe Ser Leu Gly Met Tyr Leu Val Val Tyr Gly Leu Arg Asn Ala Gly
 290 295 300
 Leu Thr His Tyr Leu Ser Ser Leu Leu Asn Gln Leu Ala Glu Gln Gly
 305 310 315 320
 Leu Trp Ala Ala Thr Leu Gly Thr Gly Phe Leu Thr Ala Phe Leu Ser
 325 330 335
 Ser Val Met Asn Asn Met Pro Thr Val Leu Val Gly Ala Leu Ser Ile
 340 345 350
 Asp Gly Ser Thr Ala Thr Gly Val Ile Lys Glu Ala Met Ile Tyr Ala
 355 360 365

```

Asn Val Ile Gly Ser Asp Leu Gly Pro Lys Ile Thr Pro Ile Gly Ser
 370          375          380
Leu Ala Thr Leu Leu Trp Leu His Val Leu Ser Gln Lys Asn Ile Lys
385          390          395          400
Ile Thr Trp Gly Tyr Tyr Phe Arg Val Gly Ile Val Met Thr Ile Pro
          405          410          415
Val Leu Phe Val Thr Leu Ala Ala Leu Ala Leu Arg Leu Ser Phe Thr
          420          425          430
Leu

```

<210> 6577

<211> 145

<212> PRT

<213> Enterobacter cloacae

<400> 6577

```

Asp Thr Asp Met Ser Asn Ile Thr Ile Tyr His Asn Pro Ala Cys Gly
1          5          10          15
Thr Ser Arg Asn Thr Leu Glu Met Ile Arg Asn Ser Gly Thr Glu Pro
          20          25          30
Thr Val Ile His Tyr Leu Glu Thr Pro Pro Ser Arg Ala Glu Leu Val
          35          40          45
Lys Leu Ile Ala Asp Met Gly Ile Thr Val Arg Ala Leu Leu Arg Lys
          50          55          60
Asn Val Glu Pro Phe Glu Ala Leu Gly Leu Ala Glu Asp Arg Phe Thr
          65          70          75          80
Asp Glu Gln Leu Ile Asp Phe Met Leu Gln His Pro Val Leu Ile Asn
          85          90          95
Arg Pro Ile Val Val Thr Pro Leu Gly Thr Arg Leu Cys Arg Pro Ser
          100          105          110
Glu Val Val Leu Asp Ile Leu Pro Asp Ala Gln Lys Ser Ala Phe Thr
          115          120          125
Lys Glu Asp Gly Glu Lys Val Val Asp Glu Lys Gly Asn Arg Leu Asn
          130          135          140

```

145

<210> 6578

<211> 208

<212> PRT

<213> Enterobacter cloacae

<400> 6578

```

Pro Pro Leu Cys Gly Phe Phe Ile Gly Asp Ser Leu Val Ala Glu Glu
1          5          10          15
Val Lys Phe Val Val Val Gly His His Thr Arg Thr Gly Gln Ala Gln
          20          25          30
Arg Leu Ala Ala Leu Leu Asp Ala His Leu Leu Ile Asp Asp Gly Lys
          35          40          45
His Gly Ala Asn Trp Asn His Arg Arg Ala Leu Glu Trp Ala Ala Glu
          50          55          60
Gln Thr Cys Arg Val Val Val Val Glu Asp Asp Ala Leu Pro Val His
          65          70          75          80
Gly Phe Thr Glu Lys Val Thr Asp Trp Leu Ala Arg Phe Pro Asp Asp
          85          90          95
Met Leu Ser Phe Tyr Leu Gly Thr Gly Arg Pro Pro Gln Tyr Gln Met
          100          105          110
Gln Ile Ala Glu Arg Leu Thr Val Ala Asp Lys Thr Arg Ala Asp Tyr
          115          120          125
Ile Thr Leu Ser Arg Leu Ile His Gly Val Cys Tyr Ser Val Pro Pro

```


130		135		140
Glu His Val His Arg Val Leu Ser Arg Trp Asp Asn Ser Lys Pro Ala				
145		150		155
Asp Tyr Ala Val Gly Asp Ala Trp Gly Gly Ser Val Ile Tyr Pro Cys				160
	165		170	
Tyr Ser Leu Val Asp His Ala Asp Gly Glu Pro Val Glu Arg His Pro				175
	180		185	
Asp Ser Ala Pro Arg Thr Glu Arg Arg Arg Ala Trp Arg Leu Ala				190
	195		200	
				205

<210> 6579

<211> 162

<212> PRT

<213> Enterobacter cloacae

<400> 6579

Glu Phe Ser Ile Met Ser Gly Pro Pro Lys Thr Pro Thr His Leu Arg				
1	5	10	15	
Leu Val Arg Gly Asn Pro Ser Lys Arg Pro Ile Asn Glu Asn Glu Pro				
	20	25	30	
Lys Pro Pro Ser Gly Val Pro Pro Thr Pro Lys His Phe Asp Lys Gln				
	35	40	45	
Gly Lys Tyr Trp Phe Lys Arg Met Ala Asp Glu Leu Asp Ala Ile Gly				
	50	55	60	
Val Met Ser Gln Leu Asp Ala Arg Ala Leu Glu Leu Leu Val Glu Ala				
65	70	75	80	
Tyr Thr Glu Tyr Arg His His Cys Asp Thr Leu Glu Val Glu Gly Tyr				
	85	90	95	
Thr Tyr Arg Thr Glu Thr Gln Ser Gly Asp Val Leu Ile Lys Ala His				
	100	105	110	
Pro Ala Ala Ile Met Lys Ala Asp Ala Trp Lys Arg Leu Arg Ala Met				
	115	120	125	
Leu Gly Glu Phe Gly Met Thr Pro Ala Ser Arg Ser Lys Val Asn Ala				
	130	135	140	
Lys Gly Pro Glu Ala Val Asp Pro Leu Ala Glu Phe Met Lys Ala Arg				
145	150	155	160	
Asp				

<210> 6580

<211> 442

<212> PRT

<213> Enterobacter cloacae

<400> 6580

Ser His His Gly Arg Phe Leu Met Lys Lys Asn Lys Arg Pro Gly Arg				
1	5	10	15	
Val Lys Ser Ala Leu Leu Asn Trp Leu Gly Val Pro Ile Ser Leu Thr				
	20	25	30	
Thr Gly Thr Phe Trp Glu Glu Trp Phe Gly Thr Ser Ser Ser Gly Lys				
	35	40	45	
Val Val Thr Ala Asp Lys Ala Ile Gln Leu Ser Ala Val Trp Ala Cys				
	50	55	60	
Val Arg Leu Leu Ser Glu Ser Ile Ser Thr Leu Pro Leu Lys Ile Tyr				
65	70	75	80	
Val Arg Gln Pro Asp Gly Ser Arg Lys Ala Ala Thr Asp His Pro Ala				
	85	90	95	
Tyr Ser Ile Leu Cys Arg Arg Pro Asn Ser Glu Met Thr Pro Ser Arg				
	100	105	110	
Phe Met Leu Met Val Val Ala Ser Ile Cys Leu Arg Gly Asn Ala Phe				
	115	120	125	

```

Ile Glu Lys Lys Phe Ile Ala Asn Arg Leu Val Ser Leu Val Pro Leu
130      135      140
Leu Pro Gln Asn Met Val Val Lys Arg Leu Val Thr Gly Ala Leu Glu
145      150      155      160
Tyr Lys Tyr Thr Glu Asn Gly Asn Glu Arg Val Ile Pro Val Lys Asn
      165      170      175
Ile Met His Ile Arg Gly Phe Gly Leu Asp Gly Val Cys Gly Met Met
      180      185      190
Pro Met Lys Thr Gly Arg Asp Val Ile Gly Ser Ala Met Ala Val Glu
      195      200      205
Glu Ser Ala Ala Lys Ile Phe Glu Gln Gly Leu Gln Ser Ser Gly Phe
210      215      220
Leu Ser Ala Glu Asn Ala Leu Ser Asp Glu Gln Arg Glu Arg Leu Arg
225      230      235      240
Ser Tyr Met Ala Ala Phe Thr Gly Ser Lys Asn Ala Gly Lys Ile Met
      245      250      255
Val Leu Glu Gly Gly Leu Lys Tyr Gln Gly Val Thr Met Asn Pro Glu
      260      265      270
Asp Ala Gln Met Leu Glu Ser Arg Ser Phe Ser Ile Glu Glu Ile Cys
      275      280      285
Arg Trp Phe Arg Val Pro Pro Phe Met Val Gly His Thr Thr Lys Gln
290      295      300
Ser Ser Trp Ala Ser Ser Leu Glu Gly Met Asn Leu Gln Phe Leu Thr
305      310      315      320
His Thr Leu Arg Pro Leu Leu Val Asn Ile Glu Gln Glu Ile Gly Arg
      325      330      335
Cys Leu Leu Asp Ser Asp Asp Glu Val Phe Ala Glu Phe Ser Val Glu
      340      345      350
Gly Leu Leu Arg Ala Asp Ser Ala Gly Arg Ala Ala Tyr Tyr Thr Ser
      355      360      365
Ala Leu Gln Asn Gly Trp Met Ser Arg Asn Asp Val Arg Arg Leu Glu
      370      375      380
Asn Met Pro Pro Ile Glu Gly Gly Asp Ile Tyr Thr Val Gln Leu Asn
385      390      395      400
Leu Thr Gln Leu Lys Asn Leu Glu Ser Ser Asn Pro Ala Val Gln Ala
      405      410      415
Leu Ala Leu Arg Glu Leu His Asn His Ile Phe Pro Asp Ile Ser Phe
      420      425      430
Glu Gln Ser Pro Leu Lys Gln Ala Ala
      435      440

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<210> 6581

<211> 136

<212> PRT

<213> Enterobacter cloacae

<400> 6581

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Ala Ser Pro Arg Leu Ser Ala Thr His Arg Thr Pro Pro Gly Val Glu
1      5      10      15
Val Ser Leu Met Pro Ala Leu Ile Pro Arg Ala Cys Arg Lys Arg Gly
      20      25      30
Cys Pro Gly Thr Thr Thr Asp Arg Ser Gly Tyr Cys Pro Lys His Leu
      35      40      45
Asn Glu Gly Trp Gln Gln His Gln Arg Gly Gln Ser Arg His Gln Arg
50      55      60
Gly Tyr Gly Ser Lys Trp Asp Arg Leu Arg Pro Ile Val Leu Gly Arg
65      70      75      80
Asp Lys His Leu Cys Gln Glu Cys Leu Arg Asn Gly Arg Tyr Thr Pro
      85      90      95
Ala Glu Thr Val Asp His Ile Thr Ala Lys Ala Asn Gly Gly Thr Asp
      100      105      110

```

Asp Leu Ser Asn Leu Glu Ser Leu Cys Lys Pro Cys His Arg Ala Lys
 115 120 125
 Thr Ala Val Glu Arg Leu Lys
 130 135

<210> 6582

<211> 590

<212> PRT

<213> Enterobacter cloacae

<400> 6582

Ser Ala Gly Arg Val Tyr Glu Ser Glu Gly Leu Met Ala Lys Val Ala
 1 5 10 15
 Glu Gly Ile Arg Tyr Ala Glu Arg Val Val Ala Gly Glu Ile Ile Ala
 20 25 30
 Cys Glu Tyr Val Arg Leu Ala Cys Gln Arg Phe Leu Asp Asp Leu Ala
 35 40 45
 His Gly Glu Glu Arg Gly Ile Phe Phe Ser Glu Pro Arg Ala Gln His
 50 55 60
 Ile Leu Asn Phe Tyr Asn Phe Val Pro His Val Lys Gly Ala Leu Ala
 65 70 75 80
 Gly Gln Pro Ile Glu Leu Met Asp Trp His Val Phe Ile Leu Ile Asn
 85 90 95
 Ile Phe Gly Phe Val Ile Pro Leu Val Asn Glu Glu Thr Gly Glu Thr
 100 105 110
 Val Leu Arg Asn Asp Gly Ser Gly Arg Pro Val Met Val Arg Arg Phe
 115 120 125
 Arg Thr Ala Asp Val Glu Val Ala Arg Lys Asn Ala Lys Ser Thr Leu
 130 135 140
 Cys Ser Gly Val Gly Leu Tyr Met Ala Gly Ala Asp Gly Glu Gly Gly
 145 150 155 160
 Ala Glu Val Tyr Ser Ala Ala Thr Thr Arg Asp Gln Ala Arg Ile Val
 165 170 175
 Phe Glu Asp Ala Lys Asn Met Val Lys Lys Ala Lys Ala Thr Leu Gly
 180 185 190
 Arg Ile Phe Glu Phe Asn Lys Leu Ala Ile Tyr Gln Glu Gln Thr Ala
 195 200 205
 Ser Lys Phe Glu Pro Leu Ser Ser Asp Ala Asn Asn Leu Asp Gly Leu
 210 215 220
 Asn Ile His Cys Ala Ile Val Asp Glu Leu His Ala His Lys Thr Arg
 225 230 235 240
 Asp Val Trp Asp Val Leu Glu Thr Ala Thr Gly Ala Arg Leu Gln Ser
 245 250 255
 Leu Leu Phe Gly Ile Thr Thr Ala Gly Phe Asn Lys Glu Gly Ile Cys
 260 265 270
 Tyr Glu Leu Arg Asp Tyr Ala Ile Ile Tyr Thr Leu Asp Glu Gly Asp Asp
 275 280 285
 Asp Asp Thr Phe Phe Ala Ile Ile Tyr Thr Leu Asp Glu Gly Asp Asp
 290 295 300
 Pro Phe Asp Glu Lys Val Trp Gln Lys Ala Asn Pro Gly Leu Gly Ile
 305 310 315 320
 Cys Lys Arg Trp Asp Asp Leu Arg Arg Leu Ala Lys Lys Ala Lys Glu
 325 330 335
 Gln Val Ser Ala Arg Ile Asn Phe Phe Thr Lys His Met Asn Ile Trp
 340 345 350
 Val Thr Ala Glu Ser Ala Trp Met Asp Met Met Lys Trp Glu Lys Cys
 355 360 365
 Glu Phe Ile Ala Pro Gln His Glu Leu Lys Thr Tyr Pro Ser Trp Val
 370 375 380
 Gly Val Asp Leu Ser Asn Lys Ile Asp Ile Cys Ala Ala Ala Lys Val
 385 390 395 400

Trp Arg Ala Pro Asp Gly His Val His Ala Asp Phe Lys Phe Trp Leu
 405 410 415
 Pro Glu Gly Arg Leu Glu Lys Cys Ser Arg Gln Met Ala Glu Leu Tyr
 420 425 430
 Arg Lys Trp Ala Gly Met Asp Lys Leu Ile Leu Thr Asp Gly Asp Val
 435 440 445
 Ile Asp His Ala Gln Ile Lys Glu Glu Leu Gln Leu Trp Val Ala Gly
 450 455 460
 Glu Ser Leu Lys Glu Ile Gly Phe Asp Pro Trp Ser Ala Thr Gln Phe
 465 470 475 480
 Ser Leu Ala Leu Ala Glu Glu Gly Leu Pro Leu Val Glu Val Pro Gln
 485 490 495
 Thr Val Arg Asn Phe Ser Glu Ala Met Lys Glu Val Glu Ala Leu Val
 500 505 510
 Tyr Gly Gly Arg Phe His His Ser Asp His Pro Val Met Asn Trp Met
 515 520 525
 Met Ser Asn Val Thr Val Lys Pro Asp Arg Asn Glu Asn Ile Phe Pro
 530 535 540
 Asn Lys Ser Thr Pro Glu Ala Lys Ile Asp Gly Pro Ala Ala Leu Phe
 545 550 555 560
 Thr Ala Met Ser Arg Val Leu Val Asn Gly Gly Asn Asp Gln Gln Asp
 565 570 575
 Leu Ser Gly Phe Phe Asn Asn Pro Ile Met Val Gly Phe
 580 585 590

<210> 6583

<211> 292

<212> PRT

<213> Enterobacter cloacae

<400> 6583

Asn Arg Pro Leu Arg Ser Thr Phe Leu Met Ser Lys Lys Gln Leu Pro
 1 5 10 15
 Ala Ala Pro Ala Gly Arg Pro Cys Ala Arg Val Thr Cys Glu Thr Leu
 20 25 30
 Pro Ser Ala Leu Asp Arg Trp Asp Gly Gly Ile Lys Ala Ala Ala Thr
 35 40 45
 Asp Asp Asn Ser Ile Ser Val Phe Asp Val Ile Gly Gln Asp Tyr Trp
 50 55 60
 Gly Glu Gly Val Thr Ala Lys Arg Ile Ala Gly Ala Leu Arg Ala Met
 65 70 75 80
 Asn Gly Ala Asp Val Thr Val Asn Ile Asn Ser Pro Gly Gly Asp Met
 85 90 95
 Phe Glu Gly Leu Ala Ile Tyr Asn Leu Leu Arg Glu Tyr Glu Gly Arg
 100 105 110
 Val Thr Val Lys Val Leu Gly Ile Ala Ala Ser Ala Ala Ser Val Ile
 115 120 125
 Ala Met Ala Gly Asp Asp Ile Leu Ile Gly Arg Gly Ala Phe Leu Met
 130 135 140
 Ile His Asn Cys Trp Val Tyr Ala Met Gly Asn Arg His Asp Phe Ala
 145 150 155 160
 Glu Leu Ala Gln Ser Leu Glu Pro Phe Asp Asn Ala Met Ala Asp Ile
 165 170 175
 Tyr Ala Ala Arg Ser Gly Leu Asp Met Ala Ala Val Gln Lys Leu Met
 180 185 190
 Asp Ala Glu Ser Tyr Ile Gly Gly Ser Asp Ala Val Ala Lys Gly Leu
 195 200 205
 Ala Asp Ser Leu Leu Ser Ala Asp Ala Val Ser Asp Gly Asp Glu Ser
 210 215 220
 Pro Ala Ala Ala Leu Arg Lys Leu Asp Ala Leu Leu Ala Lys Thr Asn
 225 230 235 240

Thr Pro Arg Ser Glu Arg Arg Lys Leu Ile Lys Ala Leu Ser Gly Gly
 245 250 255
 Met Pro Gly Ala Val Thr Thr Asn Asp Gly Thr Pro Gly Ala Ala Glu
 260 265 270
 Asp Ile Lys Pro Glu Thr Leu Asn Ser Leu Glu Ser Ala Leu Ala Ala
 275 280 285
 Leu Val Lys
 290

<210> 6584

<211> 417

<212> PRT

<213> Enterobacter cloacae

<400> 6584

Ala Gly Arg Ile Asn Met Gly Leu Lys His Leu Phe Glu Lys Ile Glu
 1 5 10 15
 Pro His Phe Thr Glu Gly Lys Leu Lys Lys Tyr Tyr Pro Leu Tyr Glu
 20 25 30
 Ala Thr Thr Thr Ile Phe Tyr Thr Pro Gly Leu Val Thr Lys Gly Ala
 35 40 45
 Ala His Val Arg Asp Ala Ile Asp Leu Lys Arg Met Met Ile Leu Val
 50 55 60
 Trp Phe Ala Val Phe Pro Ala Met Phe Trp Gly Met Tyr Asn Val Gly
 65 70 75 80
 Leu Gln Thr Ile Pro Ala Leu His His Met Tyr Asp Ala Glu Gln Leu
 85 90 95
 Ala Gln Val Ile Gln Ser Asp Trp His Tyr Arg Leu Ala Gln Ser Leu
 100 105 110
 Gly Val Ser Phe Ala Ala Asp Ala Gly Trp Ile Ser Met Met Thr Leu
 115 120 125
 Gly Ala Val Phe Phe Leu Pro Ile Tyr Met Thr Val Phe Ile Val Gly
 130 135 140
 Gly Phe Trp Glu Val Leu Phe Ala Ile Ile Arg Lys His Glu Ile Asn
 145 150 155 160
 Glu Gly Phe Phe Val Thr Ser Ile Leu Phe Ala Leu Ile Val Pro Pro
 165 170 175
 Thr Leu Pro Leu Trp Gln Ala Ala Met Gly Ile Ser Phe Gly Val Val
 180 185 190
 Ile Ala Lys Glu Ile Phe Gly Gly Thr Gly Arg Asn Phe Leu Asn Pro
 195 200 205
 Ala Leu Ala Gly Arg Ala Phe Leu Phe Phe Ala Tyr Pro Ala Gln Ile
 210 215 220
 Ser Gly Asp Leu Val Trp Thr Ala Ala Asp Gly Phe Ser Gly Ala Thr
 225 230 235 240
 Pro Leu Ser Gln Trp Ala Ala Gly Gly Gly Glu Thr Leu Val Asn Asn
 245 250 255
 Ala Thr Gly Gln Pro Val Thr Trp Phe Asp Ala Phe Ile Gly Asn Ile
 260 265 270
 Pro Gly Ser Ile Gly Glu Val Ser Thr Leu Met Ile Leu Ile Gly Gly
 275 280 285
 Ala Ile Ile Leu Phe Gly Arg Val Ala Ser Trp Arg Ile Val Ala Gly
 290 295 300
 Val Met Leu Gly Met Val Leu Thr Ala Thr Leu Phe Asn Phe Ile Gly
 305 310 315 320
 Ser Asp Thr Asn Pro Met Phe Ser Met Pro Trp Tyr Trp His Leu Val
 325 330 335
 Leu Gly Gly Phe Ala Phe Gly Met Met Phe Met Ala Thr Asp Pro Val
 340 345 350
 Ser Ala Ser Phe Thr Asp Arg Gly Lys Trp Cys Tyr Gly Ala Leu Ile
 355 360 365

Gly Val Met Cys Val Leu Ile Arg Val Val Asn Pro Ala Tyr Pro Glu
 370 375 380
 Gly Met Met Leu Ala Ile Leu Phe Ala Asn Leu Phe Ala Pro Leu Phe
 385 390 395 400
 Asp Tyr Leu Val Val Arg Ala Asn Ile Lys Arg Arg Lys Ala Arg Gly
 405 410 415

<210> 6585

<211> 409

<212> PRT

<213> Enterobacter cloacae

<400> 6585

Gln Met Glu Ile Ile Leu Gly Val Val Met Phe Thr Leu Ile Val Leu
 1 5 10 15
 Val Leu Ser Gly Leu Ile Leu Ala Ala Arg Ala Lys Leu Val Asn Ser
 20 25 30
 Gly Asp Val Ile Ile Asp Ile Asn Asp Asp Pro Gln Asn Gln Ile Arg
 35 40 45
 Thr Pro Ala Gly Asp Lys Leu Asn Thr Leu Ser Gly Asn Gly Ile
 50 55 60
 Phe Val Ser Ser Ala Cys Gly Gly Gly Gly Ser Cys Gly Gln Cys Arg
 65 70 75 80
 Val Thr Val Lys Glu Gly Gly Gly Asp Ile Leu Pro Thr Glu Leu Ser
 85 90 95
 His Ile Thr Lys Arg Glu Ala Lys Glu Gly Cys Arg Leu Ala Cys Gln
 100 105 110
 Val Ala Val Arg Gln Asn Met Lys Ile Glu Leu Pro Glu Glu Ile Phe
 115 120 125
 Gly Val Lys Lys Trp Glu Cys Glu Val Ile Ser Asn Asp Asn Lys Ala
 130 135 140
 Thr Phe Ile Lys Glu Leu Lys Leu Arg Val Pro Glu Gly Glu Ser Val
 145 150 155 160
 Pro Phe Arg Ala Gly Gly Tyr Ile Gln Ile Glu Cys Pro Ala His Thr
 165 170 175
 Val Ala Tyr Ala Asp Phe Asp Val Pro Glu Glu Tyr Arg Ala Asp Trp
 180 185 190
 Asp Lys Phe Asn Leu Phe Arg Phe Val Ser Glu Val Lys Glu Pro Ala
 195 200 205
 Leu Arg Ala Tyr Ser Met Ala Asn Tyr Pro Glu Glu Lys Gly Ile Ile
 210 215 220
 Met Leu Asn Val Arg Ile Ala Thr Pro Pro Pro Asn Val Pro Asp Ala
 225 230 235 240
 Pro Pro Gly Val Met Ser Ser Tyr Ile Trp Ser Leu Lys Pro Gly Asp
 245 250 255
 Lys Val Thr Ile Ser Gly Pro Phe Gly Glu Phe Phe Ala Lys Asp Thr
 260 265 270
 Asp Ala Glu Met Val Phe Ile Gly Gly Gly Ala Gly Met Ala Pro Met
 275 280 285
 Arg Ser His Ile Phe Asp Gln Leu Lys Arg Leu Gly Ser Lys Arg Lys
 290 295 300
 Ile Ser Phe Trp Tyr Gly Ala Arg Ser Leu Arg Glu Met Phe Tyr Asp
 305 310 315 320
 Asp Glu Phe Glu Gln Leu Ala Arg Asp Asn Pro Asn Phe Thr Phe His
 325 330 335
 Val Ala Leu Ser Asp Pro Gln Pro Glu Asp Asn Trp Thr Gly Tyr Thr
 340 345 350
 Gly Phe Ile His Asn Val Leu Tyr Glu Asn Tyr Leu Lys Gln His Pro
 355 360 365

Ala Pro Glu Asp Cys Glu Phe Tyr Met Cys Gly Pro Pro Met Met Asn
 370 375 380
 Ala Ala Val Ile Lys Met Leu Lys Asp Leu Gly Val Glu Asp Glu Asn
 385 390 395 400
 Ile Met Leu Asp Asp Phe Gly Gly
 405

<210> 6586

<211> 163

<212> PRT

<213> Enterobacter cloacae

<400> 6586

Ala Val Tyr Lys Gln Ala Gly Thr Leu His Met Ser Glu Lys Tyr Val
 1 5 10 15
 Val Thr Trp Asp Met Leu Gln Ile His Ala Arg Lys Leu Ala Ala Arg
 20 25 30
 Leu Met Pro Ser Glu Gln Trp Lys Gly Ile Ile Ala Val Ser Arg Gly
 35 40 45
 Gly Leu Val Pro Gly Ala Leu Leu Ala Arg Glu Leu Gly Ile Arg His
 50 55 60
 Val Asp Thr Val Cys Ile Ser Ser Tyr Asp His Asp Asn Gln Arg Glu
 65 70 75 80
 Leu Lys Val Leu Lys Arg Ala Glu Gly Asp Gly Glu Gly Phe Ile Val
 85 90 95
 Ile Asp Asp Leu Val Asp Thr Gly Gly Thr Ala Val Ala Ile Arg Glu
 100 105 110
 Met Tyr Pro Lys Ala His Phe Val Thr Ile Phe Ala Lys Pro Ala Gly
 115 120 125
 Arg Pro Leu Val Asp Asp Tyr Val Ile Asp Ile Pro Gln Asp Thr Trp
 130 135 140
 Ile Glu Gln Pro Trp Asp Met Gly Val Val Phe Val Pro Pro Ile Ser
 145 150 155 160
 Gly Arg

<210> 6587

<211> 483

<212> PRT

<213> Enterobacter cloacae

<400> 6587

Leu Ala Phe Arg Arg Ala Arg Arg Arg Ile Cys Cys Pro Trp Gln Gly
 1 5 10 15
 Leu Lys Trp Tyr Thr Pro Val Ser Leu Asp Cys Cys Ser Trp Ile Pro
 20 25 30
 Ala Asn His Met Phe Arg Ile Arg Lys Gly Leu Asp Leu Pro Ile Ser
 35 40 45
 Gly Val Pro Glu Gln His Val Thr Thr Gly Ala Ser Ile His His Val
 50 55 60
 Ala Ile Val Gly Asp Asp Tyr Val Gly Met Arg Pro Ala Met Leu Val
 65 70 75 80
 Gln Glu Gly Asp Arg Val Ile Lys Gly Gln Ala Leu Phe Glu Asp Lys
 85 90 95
 Lys Asn Pro Gly Val Met Phe Thr Ala Pro Ala Ser Gly Thr Val Val
 100 105 110
 Ala Ile His Arg Gly Glu Arg Arg Val Leu Gln Ser Val Val Ile Gln
 115 120 125
 Ile Glu Gly Asp Glu Lys Arg Glu Phe Ala Arg Phe Asp Ala Ala Asp
 130 135 140
 Leu Ala Thr Leu Ser His Asp Val Val Gln Thr Gln Leu Leu Glu Ser

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145          150          155          160
Gly Leu Trp Thr Ala Leu Arg Thr Arg Pro Tyr Ser Lys Thr Pro Val
          165          170          175
Pro Gly Thr Val Pro Ala Ala Ile Phe Val Thr Ala Ile Asp Thr Asn
          180          185          190
Pro Leu Ser Ala Asp Pro Gln Pro Leu Ile Leu Ala Glu Arg Lys Ala
          195          200          205
Phe Asp Ala Gly Leu Ala Val Leu Thr Arg Leu Thr Pro Gly Lys Val
          210          215          220
His Val Cys Gln Ala Cys Gly Gly Lys Leu Gly Gly His Pro Gln Gly
225          230          235          240
Gln Val Ala Phe Asn Glu Phe Ala Gly Pro His Pro Ala Gly Leu Val
          245          250          255
Gly Thr His Ile His Phe Leu Glu Pro Val Ser Leu Thr Lys Gln Val
          260          265          270
Trp His Leu Asn Tyr Gln Asp Val Ile Ala Ile Gly Lys Leu Phe Thr
          275          280          285
Thr Gly Glu Leu Cys Ala Glu Arg Ile Ile Ala Ile Gly Gly Pro Gln
290          295          300
Ala Thr Gln Pro Arg Leu Val Arg Thr Leu Leu Gly Ala Asp Leu Thr
305          310          315          320
Ala Leu Leu Ala Gly Glu Thr Lys Glu Gly Glu Asn Arg Ile Ile Ser
          325          330          335
Gly Ser Val Leu Ser Gly Arg His Ala Thr Gly Pro Met Ala Trp Leu
          340          345          350
Gly Arg Phe His Leu Gln Val Ser Val Val Leu Glu Gly Arg Asp Lys
          355          360          365
Glu Leu Phe Gly Trp Val Leu Pro Gly Ala Glu Lys Tyr Ser Val Thr
370          375          380
Arg Thr Thr Leu Gly His Phe Leu Arg His Lys Leu Phe Asn Phe Ser
385          390          395          400
Thr Ser Thr Asn Gly Gly Glu Arg Ala Met Val Pro Ile Gly Asn Tyr
          405          410          415
Glu Arg Val Met Pro Leu Asp Ile Leu Pro Thr Val Leu Leu Arg Asp
          420          425          430
Leu Leu Ala Gly Asp Thr Asp Gly Ala Gln Ala Leu Gly Cys Leu Glu
          435          440          445
Leu Asp Glu Glu Asp Leu Ala Leu Cys Thr Tyr Val Cys Pro Gly Lys
          450          455          460
Tyr Glu Tyr Gly Pro Val Leu Arg Glu Val Leu Thr Arg Ile Glu Gln
465          470          475          480
Glu Gly

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<210> 6588

<211> 293

<212> PRT

<213> Enterobacter cloacae

<400> 6588

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Cys Trp Pro Phe Cys Leu Pro Ile Cys Leu Arg Arg Cys Ser Thr Thr
1          5          10          15
Trp Ser Cys Ala Pro Thr Leu Asn Gly Gly Arg Arg Val Ala Glu Ile
20          25          30
Lys Asn Asn Asp Ser Ile Ser Lys Thr Leu Leu Val Val Leu Val Leu
35          40          45
Cys Leu Val Cys Ser Ile Val Val Ala Gly Ser Ala Val Gly Leu Lys
50          55          60
Pro Leu Gln Gln Glu Gln Arg Ala Leu Asp Lys Gln Arg Asn Ile Leu
65          70          75          80
Ala Val Ala Gly Leu Met Gln Glu Gly Met Thr Lys Asp Asp Val Ala

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<210> 6589
<211> 356
<212> PRT
<213> Enterobacter cloacae
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Gly 1	Leu	Thr	Met	Arg 5	Lys	Ile	Ile	His	Val 10	Asp	Met	Asp	Cys	Phe 15	Phe
Ala	Ala	Val	Glu	Met	Arg	Asp	Asn	Pro	Ala 20	Leu	Arg	Asp	Ile 25	Pro	Ile
Ala	Ile	Gly	Gly	Ser	Arg	Val	Gln	Arg	Gly 30	Val	Ile	Ser	Thr 35	Ala	Asn
Tyr	Pro	Ala	Arg	Lys	Tyr	Gly	Val	Arg	Ser 40	Ala	Met	Pro	Thr 45	Ala	Met
Ala	Leu	Lys	Leu	Cys	Pro	His	Leu	Thr	Leu 50	Leu	Pro	Gly	Arg 55	Phe	Asp
Ala	Tyr	Lys	Glu	Ala	Ser	Ser	His	Ile	Arg 60	Glu	Ile	Phe	Ser 65	Arg	Tyr
Thr	Ser	Leu	Ile	Glu	Pro	Leu	Ser	Leu	Asp 70	Glu	Ala	Tyr	Leu 75	Asp	Val
Thr	His	Ser	Val	His	Cys	His	Gly	Ser	Ala 80	Thr	Leu	Met	Ala 85	Gln	Glu
Ile	Arg	Gln	Thr	Ile	Phe	Asn	Glu	Leu	Asn 90	Leu	Thr	Ala	Ser 95	Ala	Gly
Val	Ala	Pro	Val	Lys	Phe	Leu	Ala	Lys	Ile 100	Ala	Ser	Asp	Leu 105	Asn	Lys
Pro	Asn	Gly	Gln	Tyr	Val	Ile	Thr	Pro	Glu 110	Glu	Val	Ser	Ala 115	Phe	Leu
Lys	Thr	Leu	Pro	Leu	Ser	Lys	Ile	Pro	Gly 120	Val	Gly	Lys	Val 125	Ser	Ala
Ala	Lys	Leu	Glu	Ser	Met	Gly	Leu	Arg	Thr 130	Cys	Glu	Asp	Val 135	Gln	Arg
Ser	Asp	Leu	Ala	Leu	Leu	Leu	Lys	Arg	Phe 140	Gly	Lys	Phe	Gly 145	Arg	Val

```

      210                      215                      220
Leu Trp Glu Arg Ser Gln Gly Ile Asp Asp Arg Asp Val Asn Asn Glu
225                      230                      235                      240
Arg Leu Arg Lys Ser Val Gly Val Glu Arg Thr Leu Ser Glu Asp Ile
      245                      250                      255
His Asp Trp Thr Glu Cys Glu Thr Ile Ile Thr Glu Gln Leu Tyr Pro
      260                      265                      270
Glu Leu Glu Arg Arg Leu Leu Lys Val Lys Pro Asp Leu Leu Ile Ala
      275                      280                      285
Arg Gln Gly Ile Lys Leu Lys Phe Asn Asp Phe Gln Gln Thr Thr Gln
      290                      295                      300
Glu His Val Trp Pro Arg Leu Asn Lys Glu Asp Leu Ile Ala Thr Ala
305                      310                      315                      320
Lys Lys Ala Trp Glu Glu Arg Arg Gly Gly Arg Gly Val Arg Leu Val
      325                      330                      335
Gly Leu His Val Thr Leu Leu Asp Pro Gln Leu Glu Arg Gln Leu Val
      340                      345                      350
Leu Gly Leu
      355

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<210> 6590
<211> 214
<212> PRT
<213> Enterobacter cloacae

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<400> 6590
Ile Met Ala Asp Thr Gly Glu Leu Lys Glu Val Lys Lys Val Leu Ile
1      5      10      15
Gly Pro Leu Leu Ala Asn Asn Pro Ile Thr Leu Gln Val Leu Gly Val
      20      25      30
Cys Ser Ala Leu Ala Val Thr Thr Lys Leu Glu Thr Ala Val Val Met
      35      40      45
Thr Leu Ala Val Thr Leu Val Thr Ala Phe Ser Ser Met Phe Ile Ser
      50      55      60
Met Ile Arg His His Ile Pro Asn Ser Val Arg Ile Ile Val Gln Met
      65      70      75      80
Ala Ile Ile Ala Ser Leu Val Ile Val Val Asp Gln Leu Leu Arg Ala
      85      90      95
Phe Ala Tyr Glu Thr Ser Lys Gln Leu Ser Val Phe Val Gly Leu Ile
      100     105     110
Ile Thr Asn Cys Ile Val Met Gly Arg Ala Glu Ala Tyr Ala Met Lys
      115     120     125
Met Pro Pro Leu Ala Ser Phe Met Asp Gly Ile Gly Asn Gly Leu Gly
      130     135     140
Tyr Gly Val Ile Leu Leu Thr Val Gly Phe Leu Arg Glu Leu Ile Gly
      145     150     155     160
Ser Gly Lys Leu Phe Gly Ile Pro Val Leu Asp Thr Val Gln Asn Gly
      165     170     175
Gly Trp Tyr Leu Pro Asn Gly Leu Phe Leu Leu Ala Pro Ser Ala Phe
      180     185     190
Phe Ile Ile Gly Leu Leu Ile Trp Leu Ile Arg Thr Leu Lys Pro Glu
      195     200     205
Gln Gln Glu Lys Glu
      210

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<210> 6591
<211> 201
<212> PRT
<213> Enterobacter cloacae

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```

<400> 6591

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```

Pro Thr Met Ala His Tyr Leu Ser Leu Phe Val Arg Ala Val Phe Val
1      5      10      15
Glu Asn Met Ala Leu Ala Phe Phe Leu Gly Met Cys Thr Phe Leu Ala
20      25      30
Val Ser Lys Lys Val Ser Thr Ala Phe Gly Leu Gly Val Ala Val Thr
35      40      45
Val Val Leu Gly Leu Ser Val Pro Ile Asn Asn Leu Val Phe Asn Phe
50      55      60
Val Leu Arg Asp Gly Ala Leu Val Glu Gly Val Asp Leu Ser Phe Leu
65      70      75      80
Asn Phe Ile Thr Phe Ile Gly Val Ile Ala Ala Leu Val Gln Ile Leu
85      90      95
Glu Met Ile Leu Asp Lys Tyr Phe Pro Ser Leu Tyr Asn Ala Leu Gly
100     105     110
Ile Phe Leu Pro Leu Ile Ala Val Asn Cys Ala Ile Phe Gly Gly Val
115     120     125
Ser Phe Met Val Gln Arg Asp Tyr Asn Phe Ser Glu Ser Val Val Tyr
130     135     140
Gly Phe Gly Ser Gly Ile Gly Trp Met Leu Ala Ile Val Thr Met Ala
145     150     155     160
Gly Ile Arg Glu Lys Met Lys Tyr Ala Asn Val Pro Ala Gly Leu Arg
165     170     175
Gly Leu Gly Ile Thr Phe Ile Thr Thr Gly Leu Met Ala Leu Gly Phe
180     185     190
Met Ser Phe Ser Gly Val Gln Leu
195     200

```

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<210> 6592
<211> 72
<212> PRT
<213> Enterobacter cloacae

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<400> 6592
Phe Arg Arg Leu Ile Met Leu Thr Phe Leu Ala Thr Phe Ala Val Phe
1      5      10      15
Val Leu Val Ile Phe Gly Met Ser Leu Gly Trp Ile Ile Lys Arg Lys
20      25      30
Ser Ile Gln Gly Ser Cys Gly Gly Ile Ser Ser Ile Gly Met Glu Lys
35      40      45
Val Cys Asp Cys Pro Glu Pro Cys Asp Ala Arg Lys Lys Arg Met Ala
50      55      60
Arg Glu Gln Gln Arg Ile Ile
65      70

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```

<210> 6593
<211> 186
<212> PRT
<213> Enterobacter cloacae

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```

<400> 6593
Pro Ala Thr Leu Phe Cys Ser Ala Ser Thr Arg Arg Pro Ile Val Ser
1      5      10      15
Glu Leu Ser Gln Leu Ser Pro Gln Pro Leu Trp Asp Ile Phe Ala Lys
20      25      30
Ile Cys Ser Ile Pro His Pro Ser Tyr His Glu Glu Gln Leu Ala Glu
35      40      45
His Ile Met Gly Trp Ala Lys Glu Lys Gly Leu His Ala Glu Arg Asp
50      55      60
Gln Val Gly Asn Ile Leu Ile Arg Lys Pro Ala Thr Ala Gly Met Glu
65      70      75      80
Asn Arg Lys Pro Val Val Leu Gln Ala His Leu Asp Met Val Pro Gln

```

```
<210> 6594
<211> 314
<212> PRT
<213> Enterobacter cloacae
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<400> 6594															
Gln 1	Gly	Glu	Ile	Tyr 5	Met	Gly	Cys	Ala	Gly 10	Gly	Ile	Asp	Phe	Ile 15	Ser
Thr	Leu	Pro	Leu 20	Ser	Arg	Glu	Ala 25	Ile	Pro	Ala	Gly	Phe 30	Glu	Thr	Phe
Lys	Leu 35	Thr	Leu	Lys	Gly	Leu 40	Lys	Gly	Gly	His	Ser	Gly 45	Gly	Asp	Ile
His	Leu 50	Gly	Leu	Gly	Asn	Ala 55	Asn	Lys	Leu	Leu	Ala 60	Arg	Phe	Leu	Ala
Gly 65	His	Ala	Ala	Glu	Leu 70	Asp	Leu	Arg	Leu	Val 75	Asp	Phe	Asn	Gly 80	Gly
Thr	Leu	Arg	Asn	Ala 85	Ile	Pro	Arg	Glu	Ala 90	Phe	Ala	Thr	Leu	Ala 95	Val
Pro	Ala	Ser	Lys 100	Ala	Asp	Glu	Leu	Lys 105	Asn	Leu	Ser	Ser	Val 110	Tyr	Leu
Glu	Ile	Leu 115	Lys	Asn	Glu	Leu	Ser 120	Ala	Lys	Glu	Lys	Asn 125	Leu	Thr	Val
Val	Leu 130	Glu	Ser	Val	Thr	Thr 135	Asp	Lys	Ala	Ala	Leu 140	Thr	Ala	Gln	Ser
Arg 145	Asp	Thr	Phe	Val 150	Gln	Leu	Leu	Asn	Ala	Thr 155	Pro	Asn	Gly	Val 160	Ile
Arg	Asn	Ser	Asp	Val 165	Ala	Lys	Gly	Val	Val 170	Glu	Thr	Ser	Leu	Asn 175	Val
Gly	Val	Val	Thr 180	Met	Gly	Asp	Asp	Ser 185	Ala	Glu	Ile	Ile	Cys 190	Leu	Ile
Arg	Ser	Leu 195	Ile	Asp	Ser	Gly	Lys 200	Glu	Tyr	Val	Val	Ser 205	Met	Leu	Glu
Ser	Leu 210	Gly	Thr	Leu	Ala	Gly 215	Ala	Lys	Thr	Ser	Ala 220	Lys	Gly	Ser	Tyr
Pro 225	Gly	Trp	Gln	Pro	Asp 230	Ala	Ser	Ser	Pro	Val 235	Met	Ala	Leu	Val	Arg
Glu	Thr	Tyr	Gln	Arg 245	Leu	Phe	Asn	Ser	Thr 250	Pro	Asn	Ile	Gln	Val 255	Ile
His	Ala	Gly	Leu 260	Glu	Cys	Gly	Leu	Phe 265	Lys	Lys	Pro	Tyr	Pro	Asp	Met
Asp	Met	Val	Ser 275	Ile	Gly	Pro	Thr 280	Ile	Thr	Gly	Pro	His 285	Ser	Pro	Asp
Glu	Gln 290	Val	His	Ile	Glu	Ser 295	Val	Gly	His	Tyr	Trp 300	Thr	Leu	Leu	Thr
Glu 305	Leu	Leu	Lys	Ala	Ile	Pro 310	Ala	Lys							

<210> 6595

<211> 567

<212> PRT

<213> Enterobacter cloacae

<400> 6595

```

Tyr Cys Leu Arg Gly Cys Pro Ala Pro Val Val Lys Thr Ile Glu Gln
1      5      10      15
Met Arg Leu Ser Ala Thr Lys Ala Leu Leu Glu Arg Arg Asp Val Val
20      25      30
Val Val Ala Ser Val Ser Ala Ile Tyr Gly Leu Gly Asp Pro Asp Leu
35      40      45
Tyr Leu Lys Met Met Leu His Leu Thr Gln Gly Met Ile Ile Asp Gln
50      55      60
Arg Ala Ile Leu Arg Arg Leu Ala Glu Leu Gln Tyr Thr Arg Asn Asp
65      70      75      80
Gln Ala Phe Gln Arg Gly Thr Phe Arg Val Arg Gly Glu Val Ile Asp
85      90      95
Ile Phe Pro Ala Glu Ser Asp Asp Met Ala Leu Arg Val Glu Leu Phe
100     105     110
Asp Glu Glu Val Glu Arg Leu Ser Leu Phe Asp Pro Leu Thr Gly His
115     120     125
Val Glu Ser Val Ile Gln Arg Phe Thr Ile Tyr Pro Lys Thr His Tyr
130     135     140
Val Thr Pro Arg Glu Arg Ile Val Gln Ala Met Glu Glu Ile Lys Ile
145     150     155     160
Glu Leu Ala Asp Arg Arg Lys Val Leu Leu Ala Asn Asn Lys Leu Leu
165     170     175
Glu Glu Gln Arg Leu Ser Gln Arg Thr Gln Phe Asp Leu Glu Met Met
180     185     190
Asn Glu Leu Gly Tyr Cys Ser Gly Ile Glu Asn Tyr Ser Arg Tyr Leu
195     200     205
Ser Gly Arg Gly Pro Gly Glu Ala Pro Pro Thr Leu Phe Asp Tyr Leu
210     215     220
Pro Ala Asp Gly Leu Leu Val Ile Asp Glu Ser His Val Thr Ile Pro
225     230     235     240
Gln Ile Gly Gly Met Tyr Arg Gly Asp Arg Ala Arg Lys Glu Thr Leu
245     250     255
Val Glu Tyr Gly Phe Arg Leu Pro Ser Ala Leu Asp Asn Arg Pro Met
260     265     270
Lys Phe Glu Glu Phe Glu Ala Leu Ala Pro Gln Thr Ile Tyr Val Ser
275     280     285
Ala Thr Pro Gly Asn Tyr Glu Leu Glu Lys Ser Gly Asp Asp Val Val
290     295     300
Asp Gln Val Val Arg Pro Thr Gly Leu Leu Asp Pro Ile Ile Glu Val
305     310     315     320
Arg Pro Val Ala Thr Gln Val Asp Asp Leu Leu Ser Glu Ile Arg Ala
325     330     335
Arg Ser Ala Ile Asn Glu Arg Val Leu Val Thr Thr Leu Thr Lys Arg
340     345     350
Met Ala Glu Asp Leu Thr Glu Tyr Leu Glu Glu His Gly Glu Lys Val
355     360     365
Arg Tyr Leu His Ser Asp Ile Asp Thr Val Glu Arg Met Glu Ile Ile
370     375     380
Arg Asp Leu Arg Leu Gly Glu Phe Asp Val Leu Val Gly Ile Asn Leu
385     390     395     400
Leu Arg Glu Gly Leu Asp Met Pro Glu Val Ser Leu Val Ala Ile Leu
405     410     415
Asp Ala Asp Lys Glu Gly Phe Leu Arg Ser Glu Arg Ser Leu Ile Gln
420     425     430
Thr Ile Gly Arg Ala Ala Arg Asn Val Asn Gly Lys Ala Ile Leu Tyr

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435 440 445
 Gly Asp Lys Ile Thr Pro Ser Met Ala Lys Ala Ile Gly Glu Thr Glu
 450 455 460
 Arg Arg Arg Glu Lys Gln Gln Arg Tyr Asn Glu Glu His Gly Ile Thr
 465 470 475 480
 Pro Gln Gly Leu Asn Lys Lys Val Val Asp Ile Leu Ala Leu Gly Gln
 485 490 495
 Asn Ile Ala Lys Thr Lys Ala Lys Gly Arg Gly Lys Ala Arg Ser Val
 500 505 510
 Val Glu Glu Asp Thr Val Ala Leu Thr Pro Lys Ala Leu Gln Gln Lys
 515 520 525
 Ile His Glu Leu Glu Gly Gln Met Met Gln His Ala Gln Asn Leu Glu
 530 535 540
 Phe Glu Glu Ala Ala Gln Ile Arg Asp Gln Leu His Gln Leu Arg Asp
 545 550 555 560
 Leu Phe Ile Ala Ala Ser
 565

<210> 6596
 <211> 84
 <212> PRT
 <213> Enterobacter cloacae

<400> 6596
 Lys Ala Met Ile Lys Val Leu Phe Phe Ala Gln Val Arg Glu Leu Val
 1 5 10 15
 Asn Thr Asp Ser Leu Thr Leu Asp Gly Ser Phe Glu Asn Val Ala Ala
 20 25 30
 Leu Arg Ala His Leu Ala Ala Gln Gly Asp Arg Trp Ala Leu Ala Leu
 35 40 45
 Asp Glu Gly Lys Leu Leu Ala Val Asn Gln Thr Leu Val Glu Leu
 50 55 60
 Thr His Pro Leu Ala Asp Gly Asp Glu Val Ala Phe Phe Pro Pro Val
 65 70 75 80
 Thr Gly Gly

<210> 6597
 <211> 148
 <212> PRT
 <213> Enterobacter cloacae

<400> 6597
 Ile Ser Arg Glu Lys Ser Phe Arg Arg Glu Ala Met Lys Trp Gln Gln
 1 5 10 15
 Arg Val Arg Val Ala Thr Gly Leu Ser Cys Trp Gln Ile Met Leu His
 20 25 30
 Leu Leu Val Val Ala Val Leu Val Met Gly Trp Met Ser Gly Thr Leu
 35 40 45
 Val Arg Val Gly Leu Gly Leu Cys Val Val Tyr Gly Val Thr Val Leu
 50 55 60
 Ser Met Leu Phe Leu Gln Arg His His Asp Ala Arg Trp Arg Glu Val
 65 70 75 80
 Gly Asp Val Leu Glu Glu Leu Thr Thr Thr Trp Tyr Phe Gly Ala Ala
 85 90 95
 Met Ile Val Leu Trp Leu Leu Ser Arg Val Leu Gln Asn Asn Leu Leu
 100 105 110
 Leu Ala Leu Ala Gly Leu Ala Ile Leu Ala Gly Pro Ala Val Val Ser
 115 120 125
 Leu Leu Thr Lys Glu Lys Lys Leu Arg Asp Val Ser Ser Lys His Arg
 130 135 140

Ile Gly His
145

<210> 6598

<211> 171

<212> PRT

<213> Enterobacter cloacae

<400> 6598

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Pro Thr Arg Trp Pro Met Gly Thr Lys Trp Pro Ser Ser Arg Arg Ser
1      5      10      15
Gln Gly Val Lys Met Thr Glu Thr Arg Ile Leu Val Gly Pro Glu Arg
20     25     30
Phe Ser Val Gly Thr Glu Tyr Ser Trp Leu Ala Glu Arg Asp Glu Asp
35     40     45
Gly Ala Val Val Thr Phe Thr Gly Lys Val Arg Asn His Asn Leu Gly
50     55     60
Asp Ser Val Lys Ala Leu Thr Leu Glu His Tyr Pro Gly Met Thr Glu
65     70     75     80
Lys Ser Leu Ala Ala Ile Val Glu Glu Ala Arg Gly Arg Trp Pro Leu
85     90     95
Gly Arg Val Thr Val Ile His Arg Ile Gly Glu Met Trp Pro Gly Glu
100    105    110
Glu Ile Val Phe Val Gly Val Thr Ser Ala His Arg Gly Ser Ala Phe
115    120    125
Ala Ala Gly Glu Phe Ile Met Asp Tyr Leu Lys Thr Lys Ala Pro Phe
130    135    140
Trp Lys Arg Glu Ala Thr Pro Glu Gly Glu Arg Trp Val Glu Ser Arg
145    150    155    160
Asp Ser Asp Lys His Ala Ala Ser Arg Trp
165    170

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<210> 6599

<211> 404

<212> PRT

<213> Enterobacter cloacae

<400> 6599

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Lys Cys Thr Ile Thr Ser Leu Cys Ile Asn Leu Tyr Ser Glu Lys Arg
1      5      10      15
Gln Trp Arg Ser Gly Asp Phe His Ala Thr Ile Ala Ile Thr Thr Phe
20     25     30
Ser Lys Leu Lys Thr Tyr Thr Leu Ala Leu Ala Pro Val Ser Arg Asp
35     40     45
Met Ala Pro Trp Pro Trp Arg Ile Cys His Gln Gly Thr Glu Arg Asn
50     55     60
Asp Cys Ala Ser Arg Ser Gly Lys Val Tyr Met Ala Ser Gln Leu Thr
65     70     75     80
Asp Ala Phe Ala Arg Lys Phe Tyr Tyr Leu Arg Leu Ser Ile Thr Asp
85     90     95
Val Cys Asn Phe Arg Cys Thr Tyr Cys Leu Pro Asp Gly Tyr Lys Pro
100    105    110
Gly Ser Val Thr Asn Asn Gly Phe Leu Ser Val Asp Glu Val Arg Arg
115    120    125
Val Thr Arg Ala Phe Ser Glu Leu Gly Thr Glu Lys Val Arg Leu Thr
130    135    140
Gly Gly Glu Pro Ser Leu Arg Arg Asp Phe Pro Asp Ile Ile Ala Ala
145    150    155    160
Val Arg Glu Asn Glu Arg Ile Arg Gln Ile Ala Val Thr Thr Asn Gly
165    170    175
Tyr Arg Met Ala Arg Asp Val Ala Asn Trp Arg Asp Ala Gly Leu Thr

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      180      185      190
Ala Ile Asn Val Ser Val Asp Ser Leu Asp Ala Arg Gln Phe His Ala
      195      200      205
Ile Thr Gly Gln Asp Lys Phe Arg Gln Val Met Asp Gly Ile Asp Ala
      210      215      220
Ala Phe Thr Ala Gly Phe Glu Lys Val Lys Val Asn Thr Val Leu Met
      225      230      235      240
Arg Asp Val Asn His His Gln Leu Asp Thr Phe Leu Ala Trp Ile Lys
      245      250      255
Ser Arg Pro Ile Gln Leu Arg Phe Ile Glu Leu Met Glu Thr Gly Glu
      260      265      270
Gly Ser Glu Leu Phe Arg Arg His Ile Ser Gly Met Val Leu Arg
      275      280      285
Asp Glu Leu Leu Lys Arg Gly Trp Ile His Gln Ile Arg Gln Arg Ser
      290      295      300
Asp Gly Pro Ala Gln Val Phe Cys His Pro Asp Tyr Glu Gly Glu Ile
      305      310      315      320
Gly Leu Ile Met Pro Tyr Glu Lys Asp Phe Cys Ala Ser Cys Asn Arg
      325      330      335
Leu Arg Val Ser Ser Val Gly Lys Leu His Leu Cys Leu Phe Gly Asp
      340      345      350
Gly Gly Val Asp Leu Arg Asp Leu Leu Glu Asp Asp Ala Gln Gln Asp
      355      360      365
Ala Leu Glu Ala Arg Ile Ser Glu Ala Leu Thr His Lys Lys Gln Thr
      370      375      380
His Phe Leu His Gln Gly Asn Thr Gly Ile Thr Gln Asn Leu Ser Tyr
      385      390      395      400
Ile Gly Gly

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<210> 6600

<211> 179

<212> PRT

<213> Enterobacter cloacae

<400> 6600

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Ser Gly Phe Arg Arg Asn Gln Lys Met Ser Gln Val Ser Ala Glu Phe
1      5      10      15
Ile Pro Thr Arg Ile Ala Ile Leu Thr Val Ser Glu Arg Arg Gly Glu
      20      25      30
Glu Asp Asp Thr Ser Gly His Trp Leu Arg Glu Ala Ala His Glu Ala
      35      40      45
Gly His Gln Ile Val Asp Lys Ala Ile Val Lys Glu Asn Arg Tyr Ala
      50      55      60
Ile Arg Ala Gln Val Ser Gln Trp Ile Ala Asn Asp Asp Val Gln Val
      65      70      75      80
Val Leu Ile Thr Gly Gly Thr Gly Phe Thr Ala Gly Asp Gln Ala Pro
      85      90      95
Glu Ala Leu Leu Pro Leu Phe Asp Arg Glu Val Glu Gly Phe Gly Glu
      100      105      110
Val Phe Arg Met Leu Ser Phe Glu Glu Ile Gly Thr Ser Thr Leu Gln
      115      120      125
Ser Arg Ala Val Ala Gly Val Ala Asn Lys Thr Leu Ile Phe Ala Met
      130      135      140
Pro Gly Ser Thr Lys Ala Cys Arg Thr Ala Trp Glu Asn Ile Ile Ala
      145      150      155      160
Pro Gln Leu Asp Ala Arg Thr Arg Pro Cys Asn Phe His Pro His Leu
      165      170      175
Lys Lys

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<210> 6601
 <211> 163
 <212> PRT
 <213> Enterobacter cloacae

<400> 6601
 Ala Met Ser Gln Leu Thr His Ile Asn Ala Ala Gly Glu Ala His Met
 1 5 10 15
 Val Asp Val Ser Ala Lys Ala Glu Thr Val Arg Glu Ala Arg Ala Glu
 20 25 30
 Ala Phe Ile Thr Met Leu Pro Glu Thr Leu Ala Met Ile Ile Asp Gly
 35 40 45
 Ser His Lys Lys Gly Asp Val Phe Ala Thr Ala Arg Ile Ala Gly Ile
 50 55 60
 Gln Ala Ala Lys Arg Thr Trp Asp Leu Ile Pro Leu Cys His Pro Leu
 65 70 75 80
 Met Leu Ser Lys Val Glu Val Asn Leu Gln Ala Gln Pro Ala His Asn
 85 90 95
 Arg Val Arg Ile Glu Ser Leu Cys Arg Leu Thr Gly Lys Thr Gly Val
 100 105 110
 Glu Met Glu Ala Leu Thr Ala Ala Ser Val Ala Ala Leu Thr Ile Tyr
 115 120 125
 Asp Met Cys Lys Ala Val Gln Lys Asp Met Val Ile Gly Pro Val Arg
 130 135 140
 Leu Leu Ala Lys Ser Gly Gly Lys Ser Gly Asp Phe Lys Val Glu Ser
 145 150 155 160
 His Asp

<210> 6602
 <211> 237
 <212> PRT
 <213> Enterobacter cloacae

<400> 6602
 Ile Met Asp Arg Phe Pro Arg Ser Asp Ser Ile Val Gln Gln Thr Arg
 1 5 10 15
 Ser Gly Leu Gln Thr Tyr Met Ala Gln Val Tyr Gly Trp Met Thr Val
 20 25 30
 Gly Leu Leu Thr Ala Phe Ile Ala Trp Tyr Ala Ala Asn Thr Pro
 35 40 45
 Glu Leu Met Met Phe Ile Phe Ser Ser Lys Ile Thr Phe Phe Gly Leu
 50 55 60
 Ile Ile Ala Gln Leu Ala Leu Val Phe Val Leu Ser Gly Leu Val His
 65 70 75 80
 Lys Leu Ser Ser Gly Met Ala Thr Thr Leu Phe Met Leu Tyr Ser Ala
 85 90 95
 Leu Thr Gly Leu Thr Leu Ser Ser Ile Phe Ile Val Tyr Thr Tyr Ser
 100 105 110
 Ser Ile Ala Ser Thr Phe Val Val Thr Gly Gly Met Phe Gly Val Met
 115 120 125
 Ser Leu Tyr Gly Tyr Thr Thr Lys Arg Asp Leu Ser Gly Phe Gly Asn
 130 135 140
 Met Leu Phe Met Gly Leu Ile Gly Ile Val Leu Ala Ser Leu Val Asn
 145 150 155 160
 Leu Trp Leu Lys Ser Asp Ala Leu Met Trp Ala Val Thr Tyr Ile Gly
 165 170 175
 Val Val Ile Phe Val Gly Leu Thr Ala Tyr Asp Thr Gln Lys Leu Lys
 180 185 190
 Asn Ile Gly Glu Gln Ile Asp Val Arg Asp Ser Ser Asn Leu Arg Lys
 195 200 205

Tyr Ser Ile Leu Gly Ala Leu Thr Leu Tyr Leu Asp Phe Ile Asn Leu
 210 215 220
 Phe Leu Met Leu Leu Arg Ile Phe Gly Asn Arg Arg
 225 230 235

<210> 6603

<211> 432

<212> PRT

<213> Enterobacter cloacae

<400> 6603

Lys Ala Arg Gly Pro Asn Phe Pro Arg Gly Glu Asn Phe Gly Gly Gln
 1 5 10 15
 Val Ala Asn Pro Phe Ser Gly Gly Gly Glu Phe Pro Gly Gly Ala Asp
 20 25 30
 Phe Gln Thr Arg Cys Phe Lys Gly Val Gly Arg Gly Ser Leu Phe Gly
 35 40 45
 Trp Glu Gly Gly Glu Thr His Thr Gly Gly Trp Ile Arg Gly Arg Ala
 50 55 60
 Phe Phe Arg Gly Tyr Gly Pro Leu Ile Ala Lys Gly Arg Gln Ser Met
 65 70 75 80
 Val Arg Glu Arg Arg Thr Arg Ala Ile Met Gly Leu Pro Val Leu Val
 85 90 95
 Pro Val Val Leu Phe Arg Phe Ala Pro Thr Val Glu Val Thr Thr Ala
 100 105 110
 Thr Phe Ala Ile Tyr Asn Glu Asp Asn Gly Lys His Ser Val Glu Leu
 115 120 125
 Thr Gln Arg Phe Ala Arg Ala Lys Ala Phe Thr His Val Leu Leu Leu
 130 135 140
 Gln Ser Pro Gln Ala Ile Gln Pro Thr Ile Asp Thr Gln Lys Ala Leu
 145 150 155 160
 Leu Leu Val Arg Phe Pro Ala Asp Phe Ser Arg Asn Leu Asp Thr Phe
 165 170 175
 Gln Thr Ala Pro Met Gln Leu Ile Leu Asp Gly Arg Asn Ser Asn Ser
 180 185 190
 Ala Gln Ile Ala Ala Asn Tyr Leu Gln Gln Val Val Lys Asp Tyr Gln
 195 200 205
 Gln Glu Leu Met Asp Gly Lys Pro Lys Pro Asn Asn Ser Glu Leu Val
 210 215 220
 Val Arg Asn Trp Tyr Asn Pro Asn Leu Asp Tyr Lys Trp Phe Val Val
 225 230 235 240
 Pro Ser Leu Ile Ala Met Ile Thr Thr Ile Gly Val Met Ile Val Thr
 245 250 255
 Ser Leu Ser Val Ala Arg Glu Arg Glu Gln Gly Thr Leu Asp Gln Leu
 260 265 270
 Leu Val Ser Pro Leu Ala Thr Trp Gln Ile Phe Val Gly Lys Ala Val
 275 280 285
 Pro Ala Leu Ile Val Ala Thr Phe Gln Ala Thr Ile Val Leu Gly Val
 290 295 300
 Gly Ile Trp Ala Tyr Gln Ile Pro Phe Ala Gly Ser Leu Ala Leu Phe
 305 310 315 320
 Tyr Phe Thr Met Val Ile Tyr Gly Leu Ser Leu Val Gly Phe Gly Leu
 325 330 335
 Leu Ile Ser Ala Leu Cys Ser Thr Gln Gln Gln Ala Phe Ile Gly Val
 340 345 350
 Phe Val Phe Met Met Pro Ala Ile Leu Leu Ser Gly Tyr Val Ser Pro
 355 360 365
 Val Glu Asn Met Pro Val Trp Leu Gln Asp Leu Thr Trp Ile Asn Pro
 370 375 380
 Ile Arg His Phe Thr Asp Ile Thr Lys Gln Ile Tyr Leu Lys Asp Ala
 385 390 395 400

Ser Leu Asp Ile Val Trp Gly Ser Leu Trp Pro Leu Leu Val Ile Ala
 405 410 415
 Ala Thr Thr Gly Ser Val Ala Tyr Ala Met Phe Arg Arg Asn Ile Ala
 420 425 430

<210> 6604

<211> 385

<212> PRT

<213> Enterobacter cloacae

<400> 6604

Val His Gly Ala Glu Thr Glu Leu Val Glu Arg Gly His Arg Arg Gly
 1 5 10 15
 Gly Val Pro Leu Pro Ala Pro Leu Pro Gly His Gly Gly Leu Ala Ala
 20 25 30
 Arg Ala Tyr Ala Glu Thr Gly Ala Gly Gly Ser Ala Cys Ala Thr Arg
 35 40 45
 Asn Gly Asn Pro Gly Pro Arg Arg Gly Gly Arg Trp Arg Glu Asn Leu
 50 55 60
 Met Ser Lys Ser His Pro Arg Trp Arg Leu Ala Lys Lys Ile Leu Thr
 65 70 75 80
 Trp Leu Phe Phe Ile Ala Val Ala Val Leu Val Val Tyr Ala Gln
 85 90 95
 Lys Val Asp Trp Glu Glu Val Trp Lys Val Ile Arg Asn Tyr Asn Arg
 100 105 110
 Thr Val Leu Leu Gly Ala Val Gly Leu Val Ile Val Ser Tyr Leu Met
 115 120 125
 Tyr Gly Cys Tyr Asp Leu Leu Gly Arg Ala Tyr Cys Gly His Lys Leu
 130 135 140
 Ala Lys Arg Gln Val Met Leu Val Ser Phe Ile Cys Tyr Ala Phe Asn
 145 150 155 160
 Leu Thr Leu Ser Thr Trp Val Gly Gly Ile Gly Met Arg Tyr Arg Leu
 165 170 175
 Tyr Ser Arg Leu Gly Leu Pro Gly Gly Thr Ile Thr Arg Ile Phe Ser
 180 185 190
 Leu Ser Ile Thr Thr Asn Trp Leu Gly Tyr Ile Leu Leu Gly Gly Val
 195 200 205
 Ile Phe Thr Ile Gly Val Val Gln Leu Pro Ala His Trp Tyr Ile Asp
 210 215 220
 Glu Ala Thr Leu Arg Ile Leu Gly Ile Val Leu Leu Ile Ile Ala
 225 230 235 240
 Ala Tyr Leu Trp Ala Cys Ala Phe Ala Lys Arg Arg His Met Thr Ile
 245 250 255
 Lys Gly Gln Lys Leu Val Leu Pro Ser Trp Lys Phe Ala Val Leu Gln
 260 265 270
 Met Val Val Ser Ser Ala Asn Trp Met Ala Met Gly Ala Ile Ile Trp
 275 280 285
 Leu Leu Ile Gly Glu Asp Val Asn Tyr Phe Phe Val Leu Gly Val Leu
 290 295 300
 Leu Val Ser Ser Ile Ala Gly Val Ile Val His Ile Pro Ala Gly Ile
 305 310 315 320
 Gly Val Leu Glu Ala Val Phe Ile Ala Leu Leu Ala Gly Glu His Val
 325 330 335
 Ser His Gly Thr Ile Ile Ala Ala Leu Leu Ala Tyr Arg Met Ile Tyr
 340 345 350
 Tyr Phe Leu Pro Leu Ala Leu Ala Thr Val Cys Tyr Leu Val Leu Glu
 355 360 365
 Ser Arg Ala Lys Lys Leu Arg Ala Lys Asn Glu Lys Ala Met Ala Lys
 370 375 380

<210> 6605
 <211> 306
 <212> PRT
 <213> Enterobacter cloacae

<400> 6605

```

Gly Ile Gly Met Arg Asn Arg Thr Phe Ala Asp Leu Asp Arg Val Val
1      5      10      15
Ala Leu Gly Gly Gly His Gly Leu Gly Arg Val Met Ser Ser Leu Ser
20      25      30
Ser Leu Gly Ser Arg Leu Thr Gly Ile Val Thr Thr Thr Asp Asn Gly
35      40      45
Gly Ser Thr Gly Arg Ile Arg Arg Ala Glu Gly Gly Ile Ala Trp Gly
50      55      60
Asp Met Arg Asn Cys Leu Asn Gln Leu Ile Thr Glu Pro Ser Val Ala
65      70      75      80
Ser Ala Met Phe Glu Tyr Arg Phe Gly Gly Asn Gly Glu Leu Ser Gly
85      90      95
His Asn Leu Gly Asn Leu Met Leu Lys Ala Leu Asp His Leu Ser Val
100     105     110
Arg Pro Leu Glu Ala Ile Asn Leu Ile Arg Asn Leu Leu Lys Val Asp
115     120     125
Ala Phe Leu Ile Pro Met Ser Glu Gln Pro Val Asp Leu Met Ala Ile
130     135     140
Asp Ala Asp Asp His Glu Val Tyr Gly Glu Val Asn Ile Asp Gln Leu
145     150     155     160
Leu Leu Pro Pro Lys Glu Leu Met Thr Tyr Pro Ser Val Pro Ala Thr
165     170     175
Arg Glu Ala Val Glu Ala Ile Gly Glu Ala Asp Leu Ile Leu Ile Gly
180     185     190
Pro Gly Ser Phe Tyr Thr Ser Leu Met Pro Ile Leu Leu Val Lys Glu
195     200     205
Leu Ala Gln Ala Leu Arg Arg Thr Pro Ala Pro Met Val Tyr Ile Gly
210     215     220
Asn Leu Gly Arg Glu Leu Ser Pro Ala Ala Ala Ser Leu Ser Leu Ala
225     230     235     240
Asp Lys Leu Asp Leu Met Glu Gln Tyr Val Gly Lys Lys Ile Ile Asp
245     250     255
Gly Val Val Val Gly Pro Lys Val Asp Val Ser Gly Ile Gly Asp Arg
260     265     270
Val Val Val Gln Glu Pro Leu Glu Ala Ser Asp Ile Lys Tyr Arg His
275     280     285
Asp Arg His Leu Leu Arg Glu Ala Leu Glu Lys Ala Ile Gln Ala Leu
290     295     300
Gly
305

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<210> 6606
 <211> 102
 <212> PRT
 <213> Enterobacter cloacae

<400> 6606

```

Ser Pro Arg Lys Val Phe Met Ser Lys Lys Thr Gln His Phe Ser Leu
1      5      10      15
Lys Val Leu Thr Ile Asn Ile His Lys Gly Phe Thr Ala Phe Asn Arg
20      25      30
Arg Phe Ile Leu Pro Glu Leu Arg Asp Ala Val Arg Thr Val Ser Ala
35      40      45
Asp Ile Val Cys Leu Gln Glu Val Met Gly Ala His Glu Val His Pro

```

50 55 60
 Met His Phe Glu Asn Trp Pro Asp Thr Pro His Tyr Glu Phe Leu Ala
 65 70 75 80
 Asp Thr Met Trp Ser Asp Tyr Ala Tyr Gly Arg Asn Ala Val Tyr Pro
 85 90 95
 Glu Gly Ala Ser Arg
 100

<210> 6607

<211> 448

<212> PRT

<213> Enterobacter cloacae

<400> 6607

Pro His Leu Arg Lys Lys Cys Pro Arg Gln Gln Pro Asp Gly Ala Gly
 1 5 10 15
 Phe Thr Gln Leu Ala Thr Ser Leu Arg Pro Cys Pro Thr Gln Arg Gly
 20 25 30
 Asp Pro Leu Met Lys Cys Thr Trp Gln Glu Gly Asn Arg Ile Thr Leu
 35 40 45
 Leu Glu Asn Gly Asp Asn Tyr Tyr Pro Ala Val Phe Glu Ala Ile Ser
 50 55 60
 His Ala Gln Gln Lys Val Phe Leu Glu Thr Phe Ile Trp Phe Glu Asp
 65 70 75 80
 Asp Val Gly Arg Gln Leu His Ser Ala Leu Leu His Ala Ala Arg Arg
 85 90 95
 Gly Ile Lys Ile Glu Val Leu Leu Asp Gly Tyr Gly Ser Pro Asp Leu
 100 105 110
 Ser Asp Glu Phe Val Asn Glu Leu Thr Ala Ala Gly Val Val Phe Arg
 115 120 125
 Tyr Tyr Asp Pro Gly Pro Arg Leu Phe Gly Met Arg Thr Asn Leu Phe
 130 135 140
 Arg Arg Met His Arg Lys Ile Val Val Val Asp Glu Thr Val Ala Phe
 145 150 155 160
 Val Gly Gly Ile Asn Tyr Ser Ala Glu His Met Ser Asp Tyr Gly Pro
 165 170 175
 Glu Ala Lys Gln Asp Tyr Ala Ile Arg Ile Glu Gly Pro Val Val Gln
 180 185 190
 Asp Ile Gln Leu Phe Val Leu Glu Asn Leu Pro Gly Lys Glu Ala Ala
 195 200 205
 Arg Arg Trp Trp Arg Arg Arg His Arg Pro Glu Glu Asn Arg Lys Pro
 210 215 220
 Gly Glu Ala Gln Ala Leu Phe Val Trp Arg Asp Asn Glu Glu His Arg
 225 230 235 240
 Asp Asp Ile Glu Arg His Tyr Leu Lys Met Leu Ala Asn Ala Lys Arg
 245 250 255
 Glu Val Ile Ile Ala Asn Ala Tyr Phe Phe Pro Gly Tyr Arg Ile Leu
 260 265 270
 His Ala Met Arg Asn Ala Ala Arg Arg Gly Val Ser Val Lys Leu Ile
 275 280 285
 Val Gln Gly Glu Pro Asp Met Pro Ile Val Lys Val Gly Ala Arg Leu
 290 295 300
 Leu Tyr Arg Tyr Leu Val Lys Ser Gly Val Gln Ile Tyr Glu Tyr Arg
 305 310 315 320
 Arg Arg Pro Leu His Gly Lys Val Ala Val Met Asp Asp His Trp Ala
 325 330 335
 Thr Val Gly Ser Ser Asn Leu Asp Pro Leu Ser Leu Ser Leu Asn Leu
 340 345 350
 Glu Ala Asn Leu Ile Ile His Asp Arg Gln Phe Asn His Thr Leu Arg
 355 360 365
 Asp Asn Leu Gln Gly Leu Ile Asn Lys Asp Cys Val Arg Val Asp Glu

370		375		380
Ser Met Val Pro Lys Arg	Ser Trp Trp Asn Val Gly Ile Gly Val Val			
385	390	395	400	
Val Phe His Phe Leu Arg His Phe Pro Ala Met Val Gly Trp Leu Pro				
	405	410	415	
Ala His Thr Pro Lys Leu Ala Leu Val Asp Pro Pro Val Gln Pro Glu				
	420	425	430	
Met Glu Thr Gln Asp Arg Val Glu Ala Glu Asp Gly Gly Lys Thr				
435	440	445		

<210> 6608

<211> 239

<212> PRT

<213> Enterobacter cloacae

<400> 6608

Thr Phe Ile Arg Ala Ser Gln His Leu Thr Ala Ala Ser Phe Tyr Arg	
1	15
Ser Cys Ala Thr Arg Tyr Ala Pro Ser Ala Pro Ile Leu Ser Ala Ser	
	30
Arg Arg Ser Trp Ala Arg Met Lys Cys Thr Arg Cys Ile Ser Lys Thr	
	45
Gly Pro Thr Arg Pro Thr Thr Ser Phe Trp Arg Ile Pro Cys Gly Ala	
50	60
Ile Thr Pro Thr Gly Ala Met Arg Ser Thr Arg Arg Gly His His Gly	
65	80
Asn Ala Val Leu Ser Arg Phe Pro Ile Glu His Tyr Glu Asn Arg Asp	
	95
Val Ser Val Gly Glu Ser Glu Lys Arg Gly Leu Leu Tyr Cys Arg Ile	
	110
Thr Pro Pro Glu Leu Asp Phe Pro Ile His Val Gly Cys Val His Leu	
	125
Gly Leu Arg Glu Ala His Arg Gln Ala Gln Leu Gln Met Leu Ala Asp	
130	140
Trp Thr Asn Ala Leu Pro Glu Gly Glu Pro Val Val Val Ala Gly Asp	
145	160
Phe Asn Asp Trp Arg Gln Arg Ala Asn His Pro Leu Lys Val Asn Ala	
	175
Gly Leu Glu Glu Ile Phe Thr Arg Ala Arg Gly Arg Pro Ala Arg Thr	
	190
Phe Pro Val Arg Phe Pro Leu Leu Arg Leu Asp Arg Ile Tyr Val Lys	
	205
Asn Ala His Ala Ser Ser Pro Thr Ala Leu Ala Leu Leu Asn Trp Arg	
210	220
His Leu Ser Asp His Ala Pro Leu Ser Ala Glu Ile His Leu	
225	235

<210> 6609

<211> 239

<212> PRT

<213> Enterobacter cloacae

<400> 6609

Lys Ser Pro Val Thr Glu Thr Ser Ile Met Asn Ser Lys Arg Tyr Glu	
1	15
Arg Ile Cys Glu Met Leu Ala Arg Arg Gln Pro Asp Leu Thr Val Cys	
	30
Met Glu Gln Val His Lys Pro His Asn Val Ser Ala Ile Val Arg Thr	
	45
Ala Asp Ala Val Gly Val His Glu Val His Ala Val Trp Pro Gly Ala	
50	60

Arg Met Arg Thr Met Ala Ser Thr Ala Ala Gly Ser Asn Ser Trp Val
 65 70 75 80
 Ser Val Lys Thr His Gln Thr Ile Gly Glu Ala Val Ser His Leu Lys
 85 90 95
 Gly Arg Gly Met Gln Val Leu Ala Thr Asn Leu Ser Ala Lys Ala Val
 100 105 110
 Asp Phe Arg Glu Ile Asp Tyr Thr Arg Pro Thr Cys Ile Leu Met Gly
 115 120 125
 Gln Glu Lys Thr Gly Ile Thr Gln Glu Ala Leu Asp Leu Ala Asp Arg
 130 135 140
 Asp Ile Ile Ile Pro Met Ile Gly Met Val Gln Ser Leu Asn Val Ser
 145 150 155 160
 Val Ala Ser Ala Leu Ile Leu Tyr Glu Ala Gln Arg Gln Arg Gln Asn
 165 170 175
 Ala Gly Met Tyr Glu Arg Ser Asn Ser Met Leu Pro Glu Glu Glu Gln
 180 185 190
 Gln Arg Leu Leu Phe Glu Gly Gly Tyr Pro Val Leu Ala Arg Val Ala
 195 200 205
 Lys Gln Lys Lys Leu Pro Tyr Pro His Val Asn Ala Gln Gly Glu Ile
 210 215 220
 Glu Ala Asp Ala Glu Trp Ser Thr Met Gln Tyr Ala Gly
 225 230 235

<210> 6610

<211> 695

<212> PRT

<213> Enterobacter cloacae

<400> 6610

Ile Met Lys Gly Arg Leu Leu Asp Ala Ile Pro Leu Asn Ser Leu Thr
 1 5 10 15
 Gly Val Gly Ala Ala Gln Ser Ser Lys Leu Ala Lys Ile Gly Leu His
 20 25 30
 Thr Val Gln Asp Leu Leu Leu His Leu Pro Leu Arg Tyr Glu Asp Arg
 35 40 45
 Thr Gln Leu Tyr Lys Ile Gly Asp Leu Leu Pro Ala Ile Tyr Ala Thr
 50 55 60
 Val Glu Gly Glu Val Leu Asn Cys Asn Ile Thr Phe Gly Gly Arg Arg
 65 70 75 80
 Met Met Thr Cys Gln Ile Ser Asp Gly Thr Gly Ile Leu Thr Leu Arg
 85 90 95
 Phe Phe Asn Phe Asn Ala Ala Met Lys Asn Ser Leu Ala Thr Gly Arg
 100 105 110
 Arg Val Leu Ala Tyr Gly Glu Ala Lys Arg Gly Lys Tyr Gly Ala Glu
 115 120 125
 Met Ile His Pro Glu Tyr Arg Val Gln Gly Asp Leu Ser Ser Pro Glu
 130 135 140
 Leu Gln Glu Thr Leu Thr Pro Val Tyr Pro Thr Thr Glu Gly Ile Lys
 145 150 155 160
 Gln Ala Thr Leu Arg Lys Leu Thr Asp Gln Ala Leu Glu Leu Leu Asp
 165 170 175
 Thr Cys Ala Ile Asn Glu Leu Leu Pro Pro Glu Leu Ala Gln Gly Met
 180 185 190
 Met Ser Leu Pro Glu Ala Leu Arg Thr Leu His Arg Pro Pro Pro Thr
 195 200 205
 Leu Gln Leu Val Asp Leu Glu Ser Gly Lys His Pro Ala Gln Arg Arg
 210 215 220
 Leu Ile Leu Glu Glu Leu Leu Ala His Asn Leu Ser Met Leu Ala Leu
 225 230 235 240
 Arg Ala Gly Ala Gln Arg Phe His Ala Gln Pro Leu Ser Gln Arg Asp
 245 250 255

Glu Leu Lys Asp Lys Leu Leu Ala Ser Leu Pro Phe Lys Pro Thr Gly
 260 265 270
 Ala Gln Ala Arg Val Thr Ala Glu Ile Glu Arg Asp Met Ala Leu Asp
 275 280 285
 Val Pro Met Met Arg Leu Val Gln Gly Asp Val Gly Ser Gly Lys Thr
 290 295 300
 Leu Val Ala Ala Leu Ala Ala Leu Arg Ala Ile Ala His Gly Lys Gln
 305 310 315 320
 Val Ala Leu Met Ala Pro Thr Glu Leu Leu Ala Glu Gln His Ala Asn
 325 330 335
 Asn Phe Arg Asn Trp Phe Ala Pro Leu Gly Ile Glu Val Gly Trp Leu
 340 345 350
 Ala Gly Lys Gln Lys Gly Lys Ala Arg Leu Ala Gln Gln Glu Ala Ile
 355 360 365
 Ala Ser Gly Gln Val Gln Met Ile Val Gly Thr His Ala Ile Phe Gln
 370 375 380
 Glu Gln Val Gln Phe Asn Gly Leu Ala Leu Val Ile Ile Asp Glu Gln
 385 390 395 400
 His Arg Phe Gly Val His Gln Arg Leu Ala Leu Trp Glu Lys Gly Leu
 405 410 415
 Gln Gln Gly Phe His Pro His Gln Leu Ile Met Thr Ala Thr Pro Ile
 420 425 430
 Pro Arg Thr Leu Ala Met Thr Ala Tyr Ala Asp Leu Asp Thr Ser Thr
 435 440 445
 Ile Asp Glu Leu Pro Pro Gly Arg Thr Pro Val Thr Thr Val Ala Ile
 450 455 460
 Pro Asp Thr Arg Arg Ser Asp Ile Ile Asp Arg Val Arg Asn Ala Cys
 465 470 475 480
 Thr His Glu Gly Arg Gln Ala Tyr Trp Val Cys Thr Leu Ile Glu Glu
 485 490 495
 Ser Glu Leu Leu Glu Ala Gln Ala Ala Glu Ala Thr Trp Glu Glu Leu
 500 505 510
 Lys Leu Ala Leu Pro Glu Leu Asn Val Gly Leu Val His Gly Arg Met
 515 520 525
 Lys Pro Ala Glu Lys Gln Ala Val Met Gln Ser Phe Lys Gln Gly Glu
 530 535 540
 Leu His Leu Leu Val Ala Thr Thr Val Ile Glu Val Gly Val Asp Val
 545 550 555 560
 Pro Asn Ser Ser Leu Met Ile Ile Glu Asn Pro Glu Arg Leu Gly Leu
 565 570 575
 Ala Gln Leu His Gln Leu Arg Gly Arg Val Gly Arg Gly Ala Ile Ala
 580 585 590
 Ser His Cys Val Leu Leu Tyr Lys Ala Pro Leu Ser Lys Thr Ala Gln
 595 600 605
 Met Arg Leu Gln Val Leu Arg Asp Ser Asn Asp Gly Phe Val Ile Ala
 610 615 620
 Gln Lys Asp Leu Glu Ile Arg Gly Pro Gly Glu Leu Leu Gly Thr Arg
 625 630 635 640
 Gln Thr Gly Asn Ala Glu Phe Lys Val Ala Asp Leu Leu Arg Asp Gln
 645 650 655
 Ala Met Ile Pro Glu Val Gln Arg Leu Ala Arg His Ile His Glu Arg
 660 665 670
 Tyr Pro Glu Gln Ala Ala Ala Leu Ile Glu Arg Trp Met Pro Glu Thr
 675 680 685
 Glu Arg Tyr Ser Asn Ala
 690 695

<210> 6611

<211> 475

<212> PRT

<213> Enterobacter cloacae

<400> 6611

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Asn Ala Arg Phe Ser Thr Val Gly Leu Pro Pro Met Ser Val Asn Thr
1      5      10      15
Leu Glu Ser Ala Asp Ala Gln Pro Ile Ala Gln Lys Gln Asn Ser Glu
20     25     30
Leu Ile Tyr Arg Leu Glu Asp Arg Pro Pro Leu Pro Gln Thr Leu Phe
35     40     45
Ala Ala Cys Gln His Leu Leu Ala Met Phe Val Ala Val Ile Thr Pro
50     55     60
Ala Leu Leu Ile Cys Gln Ala Leu Gly Leu Pro Ala Gln Asp Thr Gln
65     70     75     80
His Ile Ile Ser Met Ser Leu Phe Ala Ser Gly Val Ala Ser Ile Ile
85     90     95
Gln Ile Lys Ala Trp Gly Pro Val Gly Ser Gly Leu Leu Ser Ile Gln
100    105    110
Gly Thr Ser Phe Asn Phe Val Ala Pro Leu Ile Met Gly Gly Thr Ala
115    120    125
Leu Lys Thr Gly Gly Ala Asp Val Pro Thr Met Met Ala Ala Leu Phe
130    135    140
Gly Thr Leu Met Leu Ala Ser Cys Thr Glu Met Ile Ile Ser Arg Val
145    150    155    160
Leu His Leu Ala Arg Arg Val Ile Thr Pro Leu Val Ser Gly Val Val
165    170    175
Val Met Ile Ile Gly Leu Ser Leu Ile Gln Val Gly Leu Thr Ser Ile
180    185    190
Gly Gly Gly Tyr Ala Ala Met Ser Asp His Thr Phe Gly Ala Pro Lys
195    200    205
Asn Leu Leu Leu Ala Gly Val Val Leu Ala Ile Ile Ile Leu Leu Asn
210    215    220
Arg Gln Arg Asn Pro Tyr Leu Arg Val Ala Ser Leu Val Ile Ala Met
225    230    235    240
Ala Ala Gly Tyr Leu Leu Ala Trp Ala Leu Gly Met Leu Pro Glu Asn
245    250    255
Thr Thr Pro Thr Asn Ser Ala Leu Ile Thr Val Pro Thr Pro Leu Tyr
260    265    270
Tyr Gly Leu Gly Ile Asp Trp Ser Leu Leu Leu Pro Leu Met Leu Val
275    280    285
Phe Met Ile Thr Ser Leu Glu Thr Ile Gly Asp Ile Thr Ala Thr Ser
290    295    300
Asp Val Ser Glu Gln Pro Val Ser Gly Pro Leu Tyr Met Lys Arg Leu
305    310    315    320
Lys Gly Gly Val Leu Ala Asn Gly Leu Asn Ser Phe Val Ser Ala Val
325    330    335
Phe Asn Thr Phe Pro Asn Ser Cys Phe Gly Gln Asn Asn Gly Val Ile
340    345    350
Gln Leu Thr Gly Val Ala Ser Arg Tyr Val Gly Phe Val Val Ala Leu
355    360    365
Met Leu Val Val Leu Gly Leu Phe Pro Ala Val Ser Gly Phe Val Gln
370    375    380
His Ile Pro Glu Pro Val Leu Gly Gly Ala Thr Leu Val Met Phe Gly
385    390    395    400
Thr Ile Ala Ala Ser Gly Val Arg Ile Val Ser Arg Glu Pro Leu Asn
405    410    415
Arg Arg Ala Ile Met Ile Ile Ala Leu Ser Leu Ala Val Gly Leu Gly
420    425    430
Val Ser Gln Gln Pro Met Ile Leu Gln Phe Ala Pro Asp Trp Val Lys
435    440    445
Asn Leu Leu Ser Ser Gly Ile Ala Ala Gly Gly Ile Thr Ala Ile Val
450    455    460
Leu Asn Leu Ile Phe Pro Pro Glu Lys Asn

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465

470

475

<210> 6612

<211> 110

<212> PRT

<213> Enterobacter cloacae

<400> 6612

Thr	His	Phe	Gln	Tyr	His	Ala	Gln	Ser	Phe	Leu	His	Leu	Trp	Ser	Ile
1				5					10					15	
Leu	Ser	Met	Ala	Arg	Val	Thr	Val	Gln	Asp	Ala	Val	Lys	Lys	Ile	Gly
			20					25					30		
Asn	Arg	Phe	Asp	Leu	Val	Leu	Val	Ala	Ala	Arg	Arg	Ala	Arg	Gln	Met
			35				40					45			
Gln	Val	Gly	Gly	Lys	Asp	Pro	Leu	Val	Pro	Glu	Glu	Asn	Asp	Lys	Thr
			50			55					60				
Thr	Val	Ile	Ala	Leu	Arg	Glu	Ile	Glu	Glu	Gly	Leu	Ile	Asn	Asn	Gln
65					70					75					80
Ile	Leu	Asp	Val	Arg	Glu	Arg	Gln	Glu	Gln	Gln	Glu	Gln	Glu	Ala	Ala
				85				90						95	
Glu	Leu	Gln	Ala	Val	Thr	Ala	Ile	Ala	Glu	Gly	Arg	Arg			
			100					105					110		

<210> 6613

<211> 576

<212> PRT

<213> Enterobacter cloacae

<400> 6613

His	Pro	Tyr	Val	Arg	Phe	Ala	Gly	Arg	Lys	Thr	Met	Lys	Phe	Ile	Gly
1				5					10					15	
Lys	Leu	Leu	Ile	Tyr	Leu	Leu	Val	Ala	Leu	Leu	Ile	Val	Val	Leu	Ala
			20					25					30		
Phe	Tyr	Phe	Leu	Leu	Gln	Thr	Arg	Trp	Gly	Ala	Ser	Gln	Val	Ser	Ser
			35				40					45			
Trp	Ile	Thr	Val	Asn	Thr	Asp	Tyr	Glu	Leu	Asn	Phe	Asp	Leu	Met	Asp
			50			55					60				
His	Arg	Phe	Ser	Ser	Pro	Ser	His	Ile	Leu	Leu	Glu	Asn	Val	Thr	Phe
65					70					75					80
Gly	Arg	Asp	Gly	Lys	Pro	Ala	Thr	Leu	Val	Ala	Lys	Lys	Val	Asp	Ile
				85				90						95	
Gly	Leu	Ser	Ser	Arg	Gln	Ile	Thr	Asp	Pro	Leu	His	Met	Asp	Ala	Ile
			100					105					110		
Thr	Leu	Phe	Asp	Gly	Thr	Leu	Asn	Leu	Ser	Pro	Gln	Thr	Ala	Pro	Leu
		115					120					125			
Pro	Phe	Gln	Ala	Asp	Arg	Leu	Gln	Leu	Asn	Asn	Met	Ala	Phe	Asn	Ser
		130					135				140				
Pro	Asn	Thr	Glu	Trp	Asp	Leu	Ser	Ala	Gln	Lys	Val	Thr	Gly	Gly	Val
145					150					155					160
Ser	Pro	Trp	Gln	Pro	Glu	Ala	Gly	Asn	Val	Leu	Gly	Lys	Asn	Ala	Gln
				165				170						175	
Ile	Gln	Met	Ser	Ala	Gly	Ser	Leu	Thr	Leu	Asn	Gly	Ile	Pro	Ala	Asn
			180					185					190		
Asn	Val	Leu	Ile	Gln	Gly	Gln	Leu	Asn	Gly	Lys	Glu	Val	Ala	Leu	Asn
		195					200					205			
Thr	Ile	Gly	Ala	Asp	Met	Ala	Arg	Gly	Ser	Leu	Thr	Gly	Ser	Ala	Leu
		210				215					220				
Arg	Asn	Ala	Asp	Gly	Gly	Trp	Val	Ile	Asn	Thr	Leu	Arg	Leu	Asn	Glu
225					230					235					240
Ile	Arg	Leu	Gln	Ser	Asp	Lys	Ser	Leu	Leu	Asp	Phe	Phe	Ala	Pro	Leu
				245					250					255	

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Ser Thr Leu Pro Ser Leu Gln Ile Gly Arg Leu Glu Val Thr Asp Ala
      260      265      270
Arg Leu Gln Gly Pro Asp Trp Ala Val Thr Asp Leu Asp Leu Ser Leu
      275      280      285
Arg Asn Leu Thr Leu Ser Lys Gly Asp Trp Gln Ser Gln Glu Gly Arg
      290      295      300
Leu Ser Met Asn Ala Ser Glu Phe Ile Tyr Gly Ser Leu His Leu Phe
      305      310      315      320
Asp Pro Ile Leu Asn Ala Glu Phe Ser Pro Gln Gly Ile Ala Leu Arg
      325      330      335
Gln Phe Thr Ser Arg Trp Glu Gly Gly Met Val Arg Thr Ser Gly Asn
      340      345      350
Trp Leu Arg Glu Gly Gln Ala Leu Val Leu Asp Asp Val Ala Ile Ala
      355      360      365
Gly Leu Glu Tyr Thr Leu Pro Glu Asn Trp Lys Thr Leu Trp Met Asp
      370      375      380
Pro Leu Pro Ala Trp Leu Asn Ser Val Thr Leu Lys Lys Phe Gly Leu
      385      390      395      400
Ser Arg Asn Leu Val Ile Asp Ile Asp Pro Ala Phe Pro Trp Gln Ile
      405      410      415
Thr Ser Leu Asp Gly Tyr Gly Ala Asn Leu Arg Leu Ala Gln Asp His
      420      425      430
Lys Trp Gly Val Trp Gly Gly Asn Ala Thr Leu Asn Gly Ala Ala Ala
      435      440      445
Thr Phe Asn Arg Val Asp Val Arg Arg Pro Ser Leu Ala Leu Asn Ala
      450      455      460
Asn Ala Ala Thr Val Asn Ile Thr Asp Leu Ser Ala Phe Thr Glu Lys
      465      470      475      480
Gly Ile Leu Glu Ala Thr Ala Thr Val Ser Gln Leu Pro Gln Arg Gln
      485      490      495
Thr Thr Val Ser Leu Asn Gly Arg Gly Val Pro Leu Asn Val Leu Gln
      500      505      510
Gln Trp Gly Trp Pro Ala Leu Pro Ile Ala Gly Asp Gly Asn Ile Gln
      515      520      525
Leu Thr Ala Ser Gly Ser Val Gln Ala Asn Ala Pro Leu Lys Pro Thr
      530      535      540
Val Asn Gly Lys Leu Ser Ala Val Asn Met Asp Lys Gln Gln Val Gln
      545      550      555      560
Gln Thr Met Thr Gly Gly Val Val Ser Thr Val Ala Pro Ala Gln
      565      570      575

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<210> 6614

<211> 710

<212> PRT

<213> Enterobacter cloacae

<400> 6614

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Thr Cys Gly Ser Pro Leu Tyr Leu Phe Glu Ser Leu Asn Gln Leu Ile
1      5      10      15
Gln Thr Tyr Leu Pro Glu Asp Gln Ile Lys Arg Leu Gln Gln Ala Tyr
      20      25      30
Leu Val Ala Arg Asp Ala His Glu Gly Gln Thr Arg Ser Ser Gly Glu
      35      40      45
Pro Tyr Ile Thr His Pro Val Ala Val Ala Cys Ile Leu Ala Glu Met
      50      55      60
Lys Leu Asp Tyr Glu Thr Leu Met Ala Ala Leu Leu His Asp Val Ile
      65      70      75      80
Glu Asp Thr Pro Ala Thr Tyr Gln Asp Met Glu Gln Leu Phe Gly Lys
      85      90      95
Ser Val Ala Glu Leu Val Glu Gly Val Ser Lys Leu Asp Lys Leu Lys
      100      105      110

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Phe Arg Asp Lys Lys Glu Ala Gln Ala Glu Asn Phe Arg Lys Met Ile
 115 120 125
 Met Ala Met Val Gln Asp Ile Arg Val Ile Leu Ile Lys Leu Ala Asp
 130 135 140
 Arg Thr His Asn Met Arg Thr Leu Gly Ser Leu Arg Pro Asp Lys Arg
 145 150 155 160
 Arg Arg Ile Ala Arg Glu Thr Leu Glu Ile Tyr Ser Pro Leu Ala His
 165 170 175
 Arg Leu Gly Ile His His Ile Lys Thr Glu Leu Glu Glu Leu Gly Phe
 180 185 190
 Glu Ala Leu Tyr Pro Asn Arg Tyr Arg Val Ile Lys Glu Val Val Lys
 195 200 205
 Ala Ala Arg Gly Asn Arg Lys Glu Met Ile Gln Lys Ile Leu Ser Glu
 210 215 220
 Ile Glu Gly Arg Leu Gln Glu Ala Gly Ile Pro Cys Arg Val Ser Gly
 225 230 235 240
 Arg Glu Lys His Leu Tyr Ser Ile Tyr Cys Lys Met Val Leu Lys Glu
 245 250 255
 Gln Arg Phe His Ser Ile Met Asp Ile Tyr Ala Phe Arg Val Ile Val
 260 265 270
 His Asp Ser Asp Thr Cys Tyr Arg Val Leu Gly Gln Met His Ser Leu
 275 280 285
 Tyr Lys Pro Arg Pro Gly Arg Val Lys Asp Tyr Ile Ala Ile Pro Lys
 290 295 300
 Ala Asn Gly Tyr Gln Ser Leu His Thr Ser Met Ile Gly Pro His Gly
 305 310 315 320
 Val Pro Val Glu Val Gln Ile Arg Thr Glu Asp Met Asp Gln Met Ala
 325 330 335
 Glu Met Gly Val Ala Ala His Trp Ala Tyr Lys Glu His Gly Gly Glu
 340 345 350
 Ser Ser Thr Thr Ala Gln Ile Arg Ala Gln Arg Trp Met Gln Ser Leu
 355 360 365
 Leu Glu Leu Gln Gln Ser Ala Gly Ser Ser Phe Glu Phe Ile Glu Ser
 370 375 380
 Val Lys Ser Asp Leu Phe Pro Asp Glu Ile Tyr Val Phe Thr Pro Glu
 385 390 395 400
 Gly Arg Ile Val Glu Leu Pro Ala Gly Ala Thr Pro Val Asp Phe Ala
 405 410 415
 Tyr Ala Val His Thr Asp Ile Gly His Ala Cys Val Gly Ala Arg Val
 420 425 430
 Asp Arg Gln Pro Tyr Pro Leu Ser Gln Pro Leu Phe Ser Gly Gln Thr
 435 440 445
 Val Glu Ile Ile Thr Ala Pro Gly Ala Arg Pro Asn Ala Ala Trp Leu
 450 455 460
 Asn Phe Val Val Ser Ser Lys Ala Arg Ala Lys Ile Arg Gln Leu Leu
 465 470 475 480
 Lys Asn Leu Lys Arg Asp Asp Ser Val Ser Leu Gly Arg Arg Leu Leu
 485 490 495
 Asn His Ala Leu Gly Gly Ser Arg Lys Leu Ala Glu Ile Pro Pro Glu
 500 505 510
 Asn Ile Gln His Glu Leu Glu Arg Met Lys Leu Ala Ser Leu Asp Asp
 515 520 525
 Leu Leu Ala Glu Ile Gly Leu Gly Asn Ala Met Ser Val Val Val Ala
 530 535 540
 Lys Asn Leu Gln Gln Gly Glu Thr Thr Ala Val Pro Ala Thr Thr Gln
 545 550 555 560
 Asn His Gly His Leu Pro Ile Lys Gly Ala Asp Gly Val Leu Ile Thr
 565 570 575
 Phe Ala Lys Cys Cys Arg Pro Ile Pro Gly Asp Pro Ile Ile Ala His
 580 585 590
 Val Ser Pro Gly Lys Gly Leu Val Ile His His Glu Ser Cys Arg Asn

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<210> 6615
<211> 405
<212> PRT
<213> Enterobacter cloacae
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<400>	6615														
Gln 1	Glu	Pro	Phe	Met 5	Ile	His	Leu	Asp	Thr 10	Leu	Ser	Thr	Leu	Val 15	Ala
Ala	Thr	Leu	Val 20	Leu	Leu	Leu	Gly	Arg 25	Lys	Leu	Val	His	Ser 30	Val	Ser
Phe	Leu	Lys 35	Lys	Tyr	Thr	Ile	Pro 40	Glu	Pro	Val	Ala	Gly 45	Gly	Leu	Leu
Val	Ala 50	Leu	Ala	Leu	Leu	Ile 55	Leu	Lys	Lys	Ser	Met 60	Gly	Trp	Glu	Ile
Asp 65	Phe	Asp	Met	Ser	Leu 70	Lys	Asp	Pro	Leu	Met 75	Leu	Ala	Phe	Phe 80	Ala
Thr	Ile	Gly	Leu	Asn 85	Ala	Asn	Leu	Ala	Ser 90	Leu	Arg	Ser	Gly 95	Gly	Lys
Val	Leu	Gly	Val 100	Phe	Leu	Ile	Val	Val 105	Val	Gly	Leu	Leu	Leu 110	Met	Gln
Asn	Ala	Ile 115	Gly	Ile	Gly	Met	Ala 120	Ser	Leu	Leu	Gly	Leu 125	Asp	Pro	Leu
Met	Gly 130	Leu	Leu	Ala	Gly	Ser 135	Ile	Thr	Leu	Ser	Gly 140	Gly	His	Gly	Thr
Gly 145	Ala	Ala	Trp	Ser	Lys 150	Leu	Phe	Ile	Glu	Arg 155	Tyr	Gly	Phe	Glu	Asn 160
Ala	Thr	Glu	Val 165	Ala	Met	Ala	Cys	Ala	Thr 170	Phe	Gly	Leu	Val	Leu 175	Gly
Gly	Leu	Ile	Gly 180	Gly	Pro	Val	Ala	Arg 185	Tyr	Leu	Val	Lys	His 190	Ser	Thr
Thr	Pro	Glu 195	Gly	Arg	Pro	Asp	Asp 200	Glu	Met	Val	Pro	Thr 205	Ala	Phe	Glu
Lys	Pro	Asp 210	Val	Gly	Arg	Ser 215	Ile	Thr	Ser	Leu	Val	Met 220	Ile	Glu	Thr
Ile 225	Ala	Met	Ile	Ala	Ile 230	Cys	Leu	Thr	Val	Gly 235	Lys	Ile	Val	Ala	Gln 240
Trp	Leu	Ala	Gly	Thr 245	Ala	Phe	Glu	Leu	Pro	Thr 250	Phe	Val	Cys	Val 255	Leu
Phe	Ile	Gly	Val 260	Ile	Leu	Ser	Asn	Gly 265	Leu	Ala	Gln	Met	Gly 270	Phe	Tyr
Arg	Val	Phe 275	Glu	Arg	Ala	Val	Ser	Val 280	Leu	Gly	Asn	Val	Ser 285	Leu	Ser
Leu	Phe	Leu 290	Ala	Met	Ala	Leu	Met	Ser 295	Leu	Lys	Leu	Trp	Glu	Leu	Ala
Ser	Leu	Ala	Leu	Pro	Met	Val	Ala	Ile	Leu	Ala	Val	Gln	Ala	Val	Phe

305 310 315 320
 Met Ala Leu Tyr Ala Ile Phe Val Thr Trp Arg Met Met Gly Lys Asn
 325 330 335
 Tyr Asp Ala Ala Val Leu Ala Ala Gly His Cys Gly Phe Gly Leu Gly
 340 345 350
 Ala Thr Pro Thr Ala Ile Ala Asn Met Gln Ala Ile Thr Glu Arg Phe
 355 360 365
 Gly Pro Ser His Met Ala Phe Leu Val Val Pro Met Val Gly Ala Phe
 370 375 380
 Phe Ile Asp Ile Val Asn Ala Leu Val Ile Lys Leu Tyr Leu Met Leu
 385 390 395 400
 Pro Met Phe Gly
 405

<210> 6616
 <211> 195
 <212> PRT
 <213> Enterobacter cloacae

<400> 6616
 Ala His Asp Lys Val Gln Pro Gly Gly Val Arg Thr Cys Pro Arg Arg
 1 5 10 15
 Gly Asn Asp Leu His Arg Leu Ser Ala Glu Lys Arg Leu Arg Gln Arg
 20 25 30
 Ile Arg Leu Pro Val Asp Ala Gly Thr Tyr Ala Gly Val Ala Asp Ile
 35 40 45
 Gly Met His Gly Val Ser Glu Val Asp Arg Cys Arg Ala Arg Arg Gln
 50 55 60
 Phe Asp Asn Ala Pro Phe Arg Arg Glu Asn Val Asn Leu Ile Arg Glu
 65 70 75 80
 Glu Ile Gly Phe Asn Ala Leu Asp Lys Phe Lys Arg Ala Thr Cys Ala
 85 90 95
 Leu Leu Gln Leu Gln Gln Ala Leu His Pro Ala Leu Gly Ala Asp Leu
 100 105 110
 Arg Gly Gly Ala Ala Phe Ala Ala Val Leu Phe Val Ser Pro Val Arg
 115 120 125
 Arg Asp Thr His Leu Arg His Leu Ile His Ile Phe Gly Thr Asn Leu
 130 135 140
 His Leu Asn Arg Asp Thr Val Arg Ala Asn His Gly Gly Val Gln Arg
 145 150 155 160
 Leu Ile Ser Val Arg Phe Trp Asn Gly Asp Val Ile Phe Asp Ala Pro
 165 170 175
 Arg Thr Arg Leu Val Gln Ala Val His Leu Pro Gln His Ala Ile Thr
 180 185 190
 Gly Val
 195

<210> 6617
 <211> 85
 <212> PRT
 <213> Enterobacter cloacae

<400> 6617
 Val Met Ala Asn Ile Glu Ile Tyr Thr Lys Ala Thr Cys Pro Phe Cys
 1 5 10 15
 His Arg Ala Lys Ala Leu Leu Ser Ser Lys Gly Val Thr Phe Lys Glu
 20 25 30
 Leu Pro Ile Asp Gly Asp Ala Ile Lys Arg Glu Glu Met Ile Gln Arg
 35 40 45
 Ser Gly Arg Thr Thr Val Pro Gln Ile Phe Ile Asp Ala Gln His Ile
 50 55 60

Gly Gly Cys Asp Asp Leu Tyr Ala Leu Asp Ala Arg Gly Gly Leu Asp
 65 70 75 80
 Pro Leu Leu Ser
 85

<210> 6618
 <211> 362
 <212> PRT
 <213> Enterobacter cloacae

<400> 6618
 Cys Ala Val His Glu Leu Ser Thr Ala Ala Gly Trp Arg Arg Cys Arg
 1 5 10 15
 Thr Thr Ser Gly Cys Leu Met Ser Thr Val Asn Ala Ser Met Thr Val
 20 25 30
 Ile Gly Ala Gly Ser Tyr Gly Thr Ala Leu Ala Ile Thr Leu Ala Arg
 35 40 45
 Asn Gly His Asp Val Val Leu Trp Gly His Asp Pro Lys His Ile Ala
 50 55 60
 Thr Leu Gln His Asp Arg Cys Asn Val Ala Phe Leu Pro Asp Val Pro
 65 70 75 80
 Phe Pro Asp Ser Leu Tyr Leu Glu Ser Asp Leu Ala Thr Ala Leu Ala
 85 90 95
 Val Ser Arg Asn Ile Leu Ile Val Val Pro Ser His Val Phe Gly Glu
 100 105 110
 Val Leu Arg Gln Ile Lys Pro Leu Met Arg Ala Asp Ala Arg Ile Val
 115 120 125
 Trp Ala Thr Lys Gly Leu Glu Ala Glu Thr Gly Arg Leu Leu Gln Asp
 130 135 140
 Val Ala Arg Glu Ala Leu Gly Thr Ala Ile Pro Leu Ala Val Ile Ser
 145 150 155 160
 Gly Pro Thr Phe Ala Lys Glu Leu Ala Ala Gly Leu Pro Thr Ala Ile
 165 170 175
 Ser Leu Ala Ser Thr Asp Gln Ala Phe Ser Asp Asp Leu Gln Gln Leu
 180 185 190
 Leu His Cys Gly Lys Ser Phe Arg Val Tyr Ser Asn Pro Asp Phe Ile
 195 200 205
 Gly Val Gln Leu Gly Gly Ala Val Lys Asn Val Ile Ala Ile Gly Ala
 210 215 220
 Gly Met Ser Asp Gly Ile Gly Phe Gly Ala Asn Ala Arg Thr Ala Leu
 225 230 235 240
 Ile Thr Arg Gly Leu Thr Glu Met Ser Arg Leu Gly Glu Ala Leu Gly
 245 250 255
 Ala Asp Pro Ala Thr Phe Met Gly Met Ala Gly Leu Gly Asp Leu Val
 260 265 270
 Leu Thr Cys Thr Asp Asn Gln Ser Arg Asn Arg Arg Phe Gly Met Met
 275 280 285
 Leu Gly Gln Gly Ser Asp Val Lys Ser Ala Gln Glu Lys Ile Gly Gln
 290 295 300
 Val Val Glu Gly Tyr Arg Asn Thr Lys Glu Val Arg Glu Leu Ala His
 305 310 315 320
 Arg Phe Gly Val Glu Met Pro Ile Thr Glu Glu Ile Tyr Gln Val Leu
 325 330 335
 Tyr Cys Gly Lys Asn Ala Arg Glu Ala Ala Leu Thr Leu Leu Gly Arg
 340 345 350
 Ala Arg Lys Asp Glu Arg Ser Ser Asn
 355 360

<210> 6619
 <211> 292
 <212> PRT

<213> Enterobacter cloacae

<400> 6619

```

Met Thr Gln Pro Ala Gln Asn Trp Leu Val Ile Asn Tyr Arg Leu Glu
1      5      10      15
Gln Ala Met Pro Cys Glu Glu Leu Asp Ile Val Trp Asn Asn Ile Lys
      20      25      30
Ala Glu Ala Arg Ala Leu Ala Asp Cys Glu Pro Met Leu Ala Ser Phe
      35      40      45
Tyr His Ala Thr Leu Leu Lys His Glu Asn Leu Gly Ser Ala Leu Ser
      50      55      60
Tyr Met Leu Ala Asn Lys Leu Ala Ser Pro Ile Met Pro Ala Ile Ala
65      70      75      80
Ile Arg Glu Val Val Glu Glu Ala Tyr Ala Ala Asp Pro Glu Met Ile
      85      90      95
Ala Ser Ala Ala Cys Asp Ile Gln Ala Val Arg Thr Arg Asp Pro Ala
      100     105     110
Val Asp Lys Tyr Ser Thr Pro Leu Leu Tyr Leu Lys Gly Phe His Ala
      115     120     125
Leu Gln Ala Tyr Arg Ile Gly His Trp Leu Trp Asn Glu Gly Arg Arg
130     135     140
Ala Leu Ala Ile Phe Leu Gln Asn Gln Val Ser Val Thr Phe Gln Val
145     150     155     160
Asp Ile His Pro Ala Ala Lys Ile Gly Arg Gly Ile Met Leu Asp His
      165     170     175
Ala Thr Gly Ile Val Val Gly Glu Thr Ala Val Ile Glu Asp Asp Val
      180     185     190
Ser Ile Leu Gln Ser Val Thr Leu Gly Gly Thr Gly Lys Thr Ser Gly
195     200     205
Asp Arg His Pro Lys Ile Arg Glu Gly Val Met Ile Gly Ala Gly Ala
210     215     220
Lys Ile Leu Gly Asn Ile Glu Val Gly Arg Gly Ala Lys Ile Gly Ala
225     230     235     240
Gly Ser Val Val Leu Gln Pro Val Pro Pro His Thr Thr Ala Ala Gly
      245     250     255
Val Pro Ala Arg Ile Val Gly Lys Pro Asp Ser Asp Lys Pro Ser Met
      260     265     270
Asp Met Asp Gln His Phe Asn Gly Ile His His Thr Phe Glu Tyr Gly
275     280     285
Asp Gly Ile
290

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<210> 6620

<211> 153

<212> PRT

<213> Enterobacter cloacae

<400> 6620

```

Ser Leu Ser Arg Glu Leu Leu Pro Pro Met Gln Glu Ile Met Gln Phe
1      5      10      15
Val Ser Arg His Pro Val Leu Ser Ile Ala Trp Ile Gly Leu Leu Val
      20      25      30
Ala Val Leu Phe Thr Thr Phe Lys Gly Leu Thr Ser Lys Ile Lys Val
      35      40      45
Ile Thr Arg Gly Glu Ala Thr Arg Leu Ile Asn Lys Glu Asp Ala Val
50      55      60
Val Val Asp Leu Arg Gln Arg Asp Asp Phe Arg Lys Gly His Ile Ala
65      70      75      80
Gly Ala Ile Asn Leu Leu Pro Ala Glu Ile Lys Ala Asn Asn Ile Gly
      85      90      95
Glu Leu Glu Lys His Lys Ala Gln Pro Ile Ile Val Val Asp Gly Thr

```


	100		105		110
Gly Met Gln	Ala Gln Glu Ser	Ala Asn Ala Leu His	Lys Ala Gly Phe		
	115	120	125		
Glu Asn Val Thr	Val Leu Lys Glu Gly Ile Ser	Gly Trp Ser Gly Glu			
	130	135	140		
Asn Leu Pro Leu	Val Arg Gly Lys				
145	150				

<210> 6621

<211> 168

<212> PRT

<213> Enterobacter cloacae

<400> 6621

Ala Arg Asp Phe	Arg Thr Ile Lys Lys Gly Phe Ser Met Ser Glu Gln
1	5 10 15
Asn Asn Thr Glu	Met Thr Phe Gln Ile Gln Arg Ile Tyr Thr Lys Asp
	20 25 30
Val Ser Phe Glu	Ala Pro Asn Ala Pro His Val Phe Gln Lys Asp Trp
	35 40 45
Gln Pro Glu Val	Lys Leu Asp Leu Asp Thr Ala Ser Thr Gln Leu Ala
	50 55 60
Asp Asp Val Tyr	Glu Val Val Leu Arg Val Thr Val Thr Ala Ser Leu
65	70 75 80
Gly Glu Glu Thr	Ala Phe Leu Cys Glu Val Gln Gln Gly Gly Ile Phe
	85 90 95
Ser Ile Gly Gly	Ile Glu Gly Asn Gln Met Ala His Cys Leu Gly Ala
	100 105 110
Tyr Cys Pro Asn	Ile Leu Phe Pro Tyr Ala Arg Glu Cys Ile Thr Ser
	115 120 125
Leu Val Ser Arg	Gly Thr Phe Pro Gln Leu Asn Leu Ala Pro Val Asn
	130 135 140
Phe Asp Ala Leu	Phe Met Asn Tyr Leu Gln Gln Gln Ala Gly Glu Gly
145	150 155 160
Ala Glu Gln His	Gln Asp Ala
	165

<210> 6622

<211> 173

<212> PRT

<213> Enterobacter cloacae

<400> 6622

Ser Lys Ala Arg	Cys Ile Asp Ser Pro Gly Phe Phe Ile Trp Leu Phe
1	5 10 15
Arg Arg Ser Asp	Ala Val Ala Val Phe Glu Gly Val Val Asn Thr Val
	20 25 30
Glu Val Leu Ile	His Ile His Arg Arg Leu Ile Ala Val Trp Leu Thr
	35 40 45
Asp Asp Ala Arg	Arg Asp Ala Ser Gly Gly Gly Val Arg Arg Tyr Arg
	50 55 60
Leu Glu His Asn	Arg Pro Arg Ala Asn Leu Arg Ala Ala Ser Asp Phe
65	70 75 80
Asn Ile Ala Glu	Asp Phe Ser Thr Arg Ala Asn His His Pro Phe Thr
	85 90 95
Asn Phe Arg Met	Ala Ile Ala Ala Gly Phe Thr Gly Thr Ala Gln Arg
	100 105 110
Asn Gly Leu Gln	Asp Arg His Val Ile Phe Asp His Arg Arg Phe Thr
	115 120 125
Asp Asn Asn Ala	Gly Gly Val Val Glu His Asp Pro Thr Ala Asn Phe
130	135 140

Arg Arg Arg Met Asn Ile Asp Leu Glu Gly His Gly Asn Leu Val Leu
 145 150 155 160
 Lys Lys Asp Gly Gln Arg Ala Ala Ser Leu Ile Pro
 165 170

<210> 6623

<211> 529

<212> PRT

<213> Enterobacter cloacae

<400> 6623

Asn Tyr Ala Lys Phe Leu Ser Leu Glu His Glu Val Val Ala Met Ser
 1 5 10 15
 Val Ser Lys Lys Pro Met Val Leu Val Ile Leu Asp Gly Tyr Gly Tyr
 20 25 30
 Arg Glu Asp Gln Gln Asp Asn Ala Ile Phe Asn Ala Lys Thr Pro Val
 35 40 45
 Met Asp Ala Leu Trp Ala Lys Arg Pro His Thr Leu Ile Asp Ala Ser
 50 55 60
 Gly Leu Glu Val Gly Leu Pro Asp Arg Gln Met Gly Asn Ser Glu Val
 65 70 75 80
 Gly His Val Asn Leu Gly Ala Gly Arg Ile Val Tyr Gln Asp Leu Thr
 85 90 95
 Arg Leu Asp Val Glu Ile Lys Glu Arg Thr Phe Phe Ala Asn Pro Thr
 100 105 110
 Leu Thr Gly Ala Val Asp Lys Ala Val Ala Ala Gly Lys Ala Val His
 115 120 125
 Ile Met Gly Leu Leu Ser Ala Gly Gly Val His Ser His Glu Asp His
 130 135 140
 Ile Met Ala Met Val Glu Leu Ala Ala Glu Arg Gly Ala Glu Lys Ile
 145 150 155 160
 Tyr Leu His Ala Phe Leu Asp Gly Arg Asp Thr Pro Pro Arg Ser Ala
 165 170 175
 Lys Gly Ser Leu Glu Ala Phe Glu Asp Lys Phe Ala Ala Leu Gly Lys
 180 185 190
 Gly Arg Val Ala Ser Ile Ile Gly Arg Tyr Tyr Ala Met Asp Arg Asp
 195 200 205
 Asn Arg Trp Asp Arg Val Glu Gln Ala Tyr Asp Leu Leu Thr Leu Ala
 210 215 220
 Lys Gly Glu Phe Gln Phe Pro Thr Ala Val Glu Gly Leu Glu Ala Ala
 225 230 235 240
 Tyr Ala Arg Asp Glu Asn Asp Glu Phe Val Lys Ala Thr Val Ile Arg
 245 250 255
 Ala Glu Gly Gln Ala Asp Ala Ala Met Glu Asp Gly Asp Ala Leu Ile
 260 265 270
 Phe Met Asn Phe Arg Ala Asp Arg Ala Arg Glu Ile Thr Arg Ala Phe
 275 280 285
 Val Asn Ser Asp Phe Asp Gly Phe Ala Arg Lys Lys Val Ala Lys Ile
 290 295 300
 Asp Phe Ile Gln Leu Thr Glu Tyr Ala Ala Asp Ile Lys Ala Pro Cys
 305 310 315 320
 Ala Tyr Pro Pro Ala Ser Leu Ala Asn Thr Phe Gly Glu Trp Met Ala
 325 330 335
 Lys Asn Asp Lys Thr Gln Leu Arg Ile Ser Glu Thr Glu Lys Tyr Ala
 340 345 350
 His Val Thr Phe Phe Phe Asn Gly Val Glu Glu Pro Phe Lys Gly
 355 360 365
 Glu Asp Arg Ile Leu Ile Asn Ser Pro Lys Val Ala Thr Tyr Asp Leu
 370 375 380
 Gln Pro Glu Met Ser Ser Ala Glu Leu Thr Glu Lys Leu Val Ala Ala
 385 390 395 400

Ile Glu Ser Gly Lys Tyr Asp Thr Ile Ile Cys Asn Tyr Pro Asn Gly
 405 410 415
 Asp Met Val Gly His Thr Gly Val Met Glu Ala Ala Val Lys Ala Val
 420 425 430
 Glu Ala Leu Asp His Cys Val Glu Gln Val Ala Lys Ala Val Glu Ser
 435 440 445
 Val Gly Gly Gln Leu Leu Ile Thr Ala Asp His Gly Asn Ala Glu Gln
 450 455 460
 Met Arg Asp Pro Ala Thr Gly Gln Ala His Thr Ala His Thr Asn Leu
 465 470 475 480
 Pro Val Pro Leu Ile Tyr Val Gly Asp Lys Ser Val Lys Ala Val Glu
 485 490 495
 Gly Gly Lys Leu Ser Asp Ile Ala Pro Thr Met Leu Ser Leu Met Gly
 500 505 510
 Met Glu Ile Pro Glu Glu Met Thr Gly Lys Pro Leu Phe Ile Val Glu
 515 520 525

<210> 6624

<211> 431

<212> PRT

<213> Enterobacter cloacae

<400> 6624

Ser Leu Pro Met Arg Gly Lys Ala Ile Phe Ser Ile Thr Trp Val Met
 1 5 10 15
 Lys Pro Leu Arg Leu Ser Val Arg Pro Leu Leu Cys Ala Ser Ala Leu
 20 25 30
 Ser Ala Gly Val Leu Leu Cys Ala Ala Ser Ala His Ala Asp Asp Arg
 35 40 45
 Asp Gln Leu Lys Ser Ile Gln Ala Asp Ile Ala Ala Lys Glu Arg Ala
 50 55 60
 Val Arg Gln Gln Gln Gln Gln Arg Ala Thr Leu Leu Ala Gln Leu Lys
 65 70 75 80
 Lys Gln Glu Glu Ala Ile Ser Ala Ala Arg Lys Leu Arg Glu Thr
 85 90 95
 Gln Asn Thr Leu Ala Gln Leu Asn Lys Gln Ile Asp Glu Met Asn Ala
 100 105 110
 Ser Ile Ala Lys Leu Glu Arg Gln Arg Asp Ala Gln Glu Arg Asn Leu
 115 120 125
 Ala Ala Gln Leu Asp Ala Ala Phe Arg Gln Gly Glu His Thr Gly Leu
 130 135 140
 Gln Leu Ile Leu Ser Gly Glu Glu Ser Gln Arg Gly Gln Arg Leu Gln
 145 150 155 160
 Ala Tyr Phe Gly Tyr Leu Asn Gln Ala Arg Gln Glu Thr Ile Ala Gln
 165 170 175
 Leu Lys Gln Thr Arg Glu Glu Val Thr Thr Gln Lys Ala Glu Leu Glu
 180 185 190
 Glu Lys Gln Ser Gln Gln Gln Thr Leu Leu Tyr Asp Gln Gln Ala Gln
 195 200 205
 Gln Glu Lys Leu Glu Gln Ala Arg Asn Glu Arg Lys Lys Thr Leu Ala
 210 215 220
 Gly Leu Glu Ser Ser Ile Gln Ala Gly Gln Ser Gln Leu Ser Glu Met
 225 230 235 240
 Arg Ala Asn Glu Ser Arg Leu Arg Asn Ser Ile Ala Arg Ala Glu Ala
 245 250 255
 Ala Ala Lys Ala Arg Ala Glu Lys Glu Ala Arg Glu Ala Gln Ala Val
 260 265 270
 Arg Asn Lys Gln Gln Glu Ala Ser Arg Lys Gly Thr Thr Tyr Lys Pro
 275 280 285

```

Thr Glu Asn Glu Arg Ser Leu Met Ser Arg Thr Gly Gly Leu Gly Ser
290                295                300
Pro Arg Gly Gln Ala Tyr Trp Pro Val Arg Gly Thr Ile Leu His Arg
305                310                315                320
Tyr Gly Glu Gln Leu Gln Gly Glu Leu Arg Trp Lys Gly Ile Val Ile
                325                330                335
Gly Ala Ser Glu Gly Ser Glu Val Lys Ala Ile Ala Asp Gly Arg Val
                340                345                350
Ile Leu Ala Asp Trp Leu Gln Gly Tyr Gly Leu Val Val Val Val Glu
                355                360                365
His Gly Lys Gly Asp Met Ser Leu Tyr Gly Tyr Asn Gln Ser Ala Leu
                370                375                380
Val Ser Val Gly Thr Gln Val Arg Ala Gly Gln Pro Ile Ala Leu Val
385                390                395                400
Gly Ser Ser Gly Gly Gln Gly Arg Pro Ser Leu Tyr Phe Glu Ile Arg
                405                410                415
Arg Gln Gly Gln Ala Val Asn Pro Gln Pro Trp Leu Gly Arg
                420                425                430

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<210> 6625

<211> 322

<212> PRT

<213> Enterobacter cloacae

<400> 6625

```

Val Leu Leu Gln Phe Arg Arg Ile Val Phe Ser Val Val Ser Ala Leu
1                5                10                15
Ala Leu Ala Ala Pro Val Tyr Ala Gly Lys Leu Ala Ile Val Ile Asp
                20                25                30
Asp Phe Gly Tyr Arg Pro His Tyr Glu Asn Gln Val Leu Ala Met Pro
                35                40                45
Ser Ala Ile Ser Val Ala Val Leu Pro Asn Ala Pro His Ala His Glu
                50                55                60
Met Ala Thr Lys Ala His Asn Gly Gly His Gln Val Leu Ile His Leu
65                70                75                80
Pro Met Ala Pro Leu Ser Lys Gln Pro Leu Glu Lys Asp Thr Leu Arg
                85                90                95
Pro Asp Met Ser Ser Asp Glu Ile Asp Arg Ile Ile Arg Asp Ala Tyr
                100               105               110
Asn Lys Val Pro Tyr Ala Val Gly Leu Asn Asn His Met Gly Ser Ala
                115               120               125
Met Thr Ser Ser Leu Tyr Gly Met Leu Lys Val Met Gln Ala Leu Glu
130               135               140
Arg Tyr Asn Leu Tyr Phe Leu Asp Ser Met Thr Ile Gly Asn Ser Gln
145               150               155               160
Ala Met Arg Ala Ala Gln Gly Thr Gly Val Lys Val Ile Lys Arg Lys
                165               170               175
Val Phe Leu Asp Asp Ser Gln Asn Glu Ala Asp Ile Arg Val Gln Phe
                180               185               190
Asn Arg Ala Val Gln Leu Ala Arg Arg Asn Gly Ser Ala Ile Ala Ile
                195               200               205
Gly His Pro His Pro Ser Thr Val Arg Val Leu Gln Gln Met Leu Pro
210               215               220
Gly Leu Pro Ala Asp Ile Thr Leu Val Arg Pro Ser Asp Leu Leu Asn
225               230               235               240
Glu Pro Gln Val Asp Thr Ser Arg Pro Gly Ser Ala Gln Pro Pro Ala
                245               250               255
Thr Arg Pro Arg Asn Pro Phe Arg Gly Val Lys Asn Cys Thr Leu Lys
                260               265               270
Gln Pro Pro Glu Pro Val Tyr Ala Thr Arg Phe Phe Thr Val Ile Gly
275               280               285

```

Glu Ser Ile Asn Ser Ser Thr Leu Val Lys Ile Arg Pro Ala Thr Val
 290 295 300
 Ala Gly Leu Gly Lys Lys Asn Pro Asp Arg Val Asn Pro Ile Pro Ala
 305 310 315 320
 Arg

<210> 6626

<211> 139

<212> PRT

<213> Enterobacter cloacae

<400> 6626

Ile Val His Glu Gln Arg Ile Lys Val Tyr Trp Arg Glu Val Gln Leu
 1 5 10 15
 Arg Glu Cys Thr Ala Arg Asn Gln Ala Gly Asp Ala Phe Thr Arg Ile
 20 25 30
 Arg Glu Gln Asp Val Arg Ala Val Cys Thr Gln Ala Met Arg His Leu
 35 40 45
 Val Thr Phe Asp Ala Ala Asp Gly Glu Asp Thr Ala Leu Leu Asn Phe
 50 55 60
 Ala Gln Glu Arg Ser Phe Phe Ala Gln Arg Gly Gly His Gly Asp Thr
 65 70 75 80
 Gln Tyr Asp Phe Ile His Ile Ile Arg Gln Leu Gly Gly Cys Gly Ile
 85 90 95
 Gln Ile Lys Phe Asn Leu Trp Leu Pro Val Phe Leu Glu Asn Val Arg
 100 105 110
 Arg Ile Trp Arg Phe Glu Arg Asp Ile Leu Gly Val Asp Ala Leu Asp
 115 120 125
 Leu Glu Ser His Leu Gly Val Ile Leu Phe
 130 135

<210> 6627

<211> 202

<212> PRT

<213> Enterobacter cloacae

<400> 6627

Arg Arg His Ser Lys Gly Asp Asp Val Tyr Val Met Asp Ile Asn Gly
 1 5 10 15
 Leu Ile Glu Gln Tyr Gly Tyr Ala Ala Leu Val Ile Gly Ser Val Ala
 20 25 30
 Glu Gly Glu Thr Ile Thr Leu Leu Gly Gly Val Ala Ala His Gln Gly
 35 40 45
 Leu Leu Lys Phe Ser Leu Val Ala Ala Val Ala Leu Gly Gly Met
 50 55 60
 Ile Gly Asp Gln Leu Leu Tyr Phe Leu Gly Leu Arg Phe Gly Pro Thr
 65 70 75 80
 Leu Leu Gln Arg Phe Ala Arg His Gln Lys Lys Ile Arg Arg Ala Gln
 85 90 95
 Arg Leu Ile Gln Arg His Pro Tyr Leu Phe Val Ile Gly Thr Arg Phe
 100 105 110
 Met Tyr Gly Phe Arg Ile Ile Gly Pro Ile Leu Ile Gly Ala Ser Arg
 115 120 125
 Leu Pro Pro Lys Ile Phe Leu Pro Leu Asn Ile Leu Gly Ala Ile Ala
 130 135 140
 Trp Ala Leu Ile Phe Thr Thr Leu Gly Tyr Ala Gly Gly Glu Val Ile
 145 150 155 160
 Gly Pro Trp Leu His Asn Leu Asp Gln His Leu Lys His Trp Ala Trp
 165 170 175
 Leu Ile Leu Val Val Ala Val Val Ile Gly Val Arg Leu Trp Leu Lys

```
<210> 6628
<211> 144
<212> PRT
<213> Enterobacter cloacae
```

```
<210> 6629
<211> 120
<212> PRT
<213> Enterobacter cloacae
```

```
<210> 6630
<211> 298
<212> PRT
<213> Enterobacter cloacae
```

```
<400> 6630
Gly Asn Val Met His Pro Arg Phe Gln Ala Ala Phe Ser Gln Leu Ala
1          5          10          15
Glu Asn Leu Gln Ser Ala Leu Ala Pro Val Leu Ala Asp Ala His Phe
```

```
<210> 6631
<211> 240
<212> PRT
<213> Enterobacter cloacae
```

<400> 6631															
Gly	Arg	Arg	Gly	Glu	Asn	Lys	Lys	Met	Met	Ala	Asn	Ile	Trp	Trp	Ser
1				5					10					15	
Leu	Pro	Leu	Thr	Leu	Val	Val	Phe	Phe	Ala	Ala	Arg	Lys	Leu	Ala	Val
			20					25					30		
Arg	Phe	Lys	Met	Pro	Leu	Leu	Asn	Pro	Leu	Leu	Val	Ala	Met	Val	Val
		35					40					45			
Ile	Ile	Pro	Phe	Leu	Leu	Leu	Thr	Gly	Ile	Ser	Tyr	Glu	Arg	Tyr	Phe
	50					55					60				
Ala	Gly	Ser	Lys	Ile	Leu	Asn	Asp	Leu	Leu	Gln	Pro	Ala	Val	Val	Ala
65					70					75					80
Leu	Ala	Phe	Pro	Leu	Tyr	Glu	Gln	Leu	His	Gln	Ile	Arg	Ala	Arg	Trp
				85					90					95	
Lys	Ser	Ile	Ile	Thr	Ile	Cys	Phe	Val	Gly	Ser	Leu	Val	Ala	Met	Ile
			100					105					110		
Thr	Gly	Thr	Ser	Val	Ala	Leu	Met	Met	Gly	Ala	Ser	Pro	Gln	Ile	Ala
		115					120					125			
Ala	Ser	Ile	Leu	Pro	Lys	Ser	Val	Thr	Thr	Pro	Ile	Ala	Met	Ala	Val
	130					135					140				
Gly	Gly	Ser	Ile	Gly	Gly	Ile	Pro	Ala	Ile	Ser	Ala	Val	Cys	Val	Ile

145		150		155		160									
Phe	Val	Gly	Ile	Leu	Gly	Ala	Val	Phe	Gly	His	Thr	Leu	Leu	Asn	Ile
		165			170									175	
Met	Lys	Ile	Arg	Thr	Lys	Ala	Ala	Arg	Gly	Leu	Ala	Met	Gly	Thr	Ala
		180						185					190		
Ser	His	Ala	Leu	Gly	Thr	Ala	Arg	Cys	Ala	Glu	Leu	Asp	Tyr	Gln	Glu
		195					200					205			
Gly	Ala	Phe	Ser	Ser	Leu	Ala	Leu	Val	Ile	Cys	Gly	Ile	Ile	Thr	Ser
	210					215					220				
Leu	Val	Ala	Pro	Phe	Ile	Phe	Pro	Ile	Ile	Leu	Ala	Val	Met	Gly	
225				230						235					240

<210> 6632

<211> 255

<212> PRT

<213> Enterobacter cloacae

<400> 6632

Pro	Gly	Gly	Tyr	Ser	Ser	Leu	Arg	Glu	Ile	Ser	Ser	Ser	Val	Arg	Ala
1			5						10					15	
Ile	Cys	Met	Leu	Lys	Arg	Val	Phe	Tyr	Ser	Leu	Ser	Val	Leu	Val	Gly
		20						25					30		
Ile	Leu	Leu	Leu	Ile	Val	Leu	Gly	Leu	Asp	Arg	Trp	Met	Ser	Trp	Lys
	35					40					45				
Thr	Ala	Pro	Tyr	Ile	Phe	Asp	Asp	Leu	Gln	Asp	Leu	Pro	Tyr	Arg	Gln
	50				55					60					
Val	Gly	Val	Val	Leu	Gly	Thr	Ala	Lys	Tyr	Tyr	Arg	Thr	Gly	Val	Ile
65				70					75					80	
Asn	Gln	Tyr	Tyr	Arg	Tyr	Arg	Ile	Gln	Gly	Ala	Leu	Asn	Ala	Tyr	Asn
			85					90						95	
Ser	Gly	Lys	Val	Asn	Tyr	Leu	Leu	Leu	Ser	Gly	Asp	Asn	Ala	Leu	Gln
		100					105					110			
Ser	Tyr	Asn	Glu	Pro	Val	Thr	Met	Arg	Lys	Asp	Leu	Ile	Ala	Ala	Gly
		115				120					125				
Val	Asp	Pro	Ala	Asp	Ile	Val	Leu	Asp	Tyr	Ala	Gly	Phe	Arg	Thr	Leu
	130				135					140					
Asp	Ser	Ile	Val	Arg	Thr	Arg	Lys	Val	Phe	Asp	Thr	Asn	Asp	Phe	Ile
145				150					155						160
Ile	Ile	Thr	Gln	Arg	Phe	His	Cys	Glu	Arg	Ala	Leu	Phe	Ile	Ala	Leu
			165					170						175	
His	Met	Gly	Ile	Gln	Ala	Gln	Cys	Tyr	Ala	Val	Pro	Ser	Pro	Lys	Asp
		180					185					190			
Met	Leu	Ser	Val	Arg	Val	Arg	Glu	Phe	Gly	Ala	Arg	Phe	Gly	Ala	Leu
	195					200					205				
Ala	Asp	Leu	Tyr	Leu	Phe	Lys	Arg	Glu	Pro	Arg	Phe	Leu	Gly	Pro	Leu
	210				215						220				
Val	Pro	Ile	Pro	Thr	Met	His	Glu	Val	Pro	Glu	Asp	Ala	Gln	Gly	Tyr
225				230					235						240
Pro	Ala	Val	Thr	Pro	Glu	Gln	Leu	Leu	Glu	Ile	Gln	Lys	Lys		
			245					250						255	

<210> 6633

<211> 326

<212> PRT

<213> Enterobacter cloacae

<400> 6633

Arg	Ala	Ala	Thr	Ile	Ala	Arg	Leu	Phe	Ser	Gln	Val	Leu	Arg	Met	Arg
1			5						10					15	
Val	Leu	Leu	Ala	Pro	Met	Glu	Gly	Val	Leu	Asp	Ser	Leu	Val	Arg	Glu
		20					25						30		

Leu Leu Thr Glu Val Asn Asp Tyr Asp Leu Cys Val Thr Glu Phe Leu
 35 40 45
 Arg Val Val Asp Met Leu Leu Pro Glu Lys Ser Phe Tyr Arg Leu Cys
 50 55 60
 Pro Glu Leu His Arg Gln Ser Arg Thr Pro Ser Gly Thr Leu Val Arg
 65 70 75 80
 Val Gln Leu Leu Gly Gln Tyr Pro Glu Trp Leu Ala Glu Asn Ala Ala
 85 90 95
 Arg Ala Val Ala Leu Gly Ser Tyr Gly Val Asp Leu Asn Cys Gly Cys
 100 105 110
 Pro Ser Lys Leu Val Asn Gly Ser Gly Gly Gly Ala Thr Leu Leu Lys
 115 120 125
 Asp Pro Glu Leu Ile Tyr Arg Gly Ala Lys Ala Met Arg Glu Ala Val
 130 135 140
 Pro Ser His Leu Pro Val Thr Val Lys Val Arg Leu Gly Trp Asp Ser
 145 150 155 160
 Gly Asp Lys Gln Phe Glu Ile Ala Asp Ala Val Gln Gln Ala Gly Ala
 165 170 175
 Thr Glu Leu Val Val His Gly Arg Thr Lys Glu Asp Gly Tyr Lys Ala
 180 185 190
 Glu Arg Ile Asn Trp Gln Ala Ile Gly Glu Ile Arg Lys Arg Leu Thr
 195 200 205
 Ile Pro Val Ile Ala Asn Gly Glu Ile Trp Asp Tyr Glu Ser Ala Gln
 210 215 220
 Ala Cys Leu Lys Glu Thr Gly Cys Asn Ala Val Met Ile Gly Arg Gly
 225 230 235 240
 Ala Leu Asn Val Pro Asn Leu Ser Arg Val Val Lys Tyr Asn Glu Pro
 245 250 255
 Arg Met Pro Trp Ala Asp Val Val Lys Leu Leu Gln Lys Tyr Thr Arg
 260 265 270
 Leu Glu Lys Gln Gly Asp Thr Gly Leu Tyr His Val Ala Arg Ile Lys
 275 280 285
 Gln Trp Leu Ser Tyr Leu Arg Lys Glu Tyr Asp Asp Ala Leu Gly Leu
 290 295 300
 Phe Gln Glu Ile Arg Thr Leu Gln Thr Ser Ala Asp Ile Ala Arg Val
 305 310 315 320
 Ile Gln Ser Lys Ser
 325

<210> 6634

<211> 179

<212> PRT

<213> Enterobacter cloacae

<400> 6634

Ile Ile Ile Arg Ser Leu Ile Met Leu Lys Phe Arg Val Ser Leu Leu
 1 5 10 15
 Ser Leu Ala Leu Leu Leu Gly Val Ser Ala Thr Ala Pro Ala Ile Ala
 20 25 30
 Lys Thr Thr Ala Val Ala Thr Ala Ala Ala Gln Pro Gln Ile Ala Ser
 35 40 45
 Gly Ser Ala Met Ile Val Asp Leu Asn Thr Asn Lys Val Ile Tyr Ala
 50 55 60
 Ser His Pro Asp Leu Val Arg Pro Ile Ala Ser Ile Thr Lys Val Met
 65 70 75 80
 Thr Ala Met Val Val Leu Asp Ala Arg Leu Pro Leu Asp Glu Lys Leu
 85 90 95
 Lys Val Asp Ile Ser His Thr Pro Glu Met Lys Gly Ile Tyr Ser Arg
 100 105 110
 Val Arg Leu Lys Ser Glu Ile Ser Arg Lys Asn Met Leu Leu Leu Ala
 115 120 125

Leu Met Ser Ser Glu Asn Arg Ala Gly Gly Glu Pro Cys Pro Pro Leu
 130 135 140
 Ser Trp Arg Leu Arg Arg Val Tyr Pro Arg Asp Glu Cys Gln Ser Gln
 145 150 155 160
 Ser Ala Gly Asp Glu Lys Tyr Pro Phe Arg Gly Ala Asn Arg Ser Val
 165 170 175
 Asp Pro

<210> 6635

<211> 310

<212> PRT

<213> Enterobacter cloacae

<400> 6635

Ser Lys Asn Ser Gly Ala Gln Arg Ala Tyr Cys Arg Val Asp Ala Glu
 1 5 10 15
 Arg Ser Val Arg Gly Cys His Ala Pro Ala His Leu Arg Ala Gly Trp
 20 25 30
 Arg Ile Ser Ser Arg Leu Thr Leu Arg Ile Ile Tyr Thr Tyr Leu Phe
 35 40 45
 Ala Asp Phe Gln Glu Val Ser Met Thr Arg Val Ala Ile Val Thr Ala
 50 55 60
 Ser Asp Ser Gly Ile Gly Lys Thr Thr Ala Leu Met Leu Ala Glu Arg
 65 70 75 80
 Gly Phe Asp Ile Gly Val Thr Trp His Ser Asp Glu Glu Gly Ala Leu
 85 90 95
 Glu Thr Cys Arg Glu Val Glu Ala Arg Gly Gln Arg Ala Glu Ala Ile
 100 105 110
 His Leu Asp Leu Gly Thr Leu Pro Glu Gly Ala Lys Ala Ile Glu Thr
 115 120 125
 Leu Ile Ser Arg Phe Gly Arg Leu Asp Val Leu Val Asn Asn Ala Gly
 130 135 140
 Ala Met Asn Lys Ala Pro Phe Leu Glu Leu Ser Phe Asp Asp Trp Arg
 145 150 155 160
 Asn Ile Phe Thr Val Asp Val Asp Gly Ala Phe Leu Cys Ser Gln Ile
 165 170 175
 Ala Ala Arg Gln Met Val Lys Gln Gly Glu Gly Arg Ile Val Asn
 180 185 190
 Ile Thr Ser Val His Glu His Thr Pro Leu Pro Asp Ala Ser Ala Tyr
 195 200 205
 Thr Ala Ala Lys His Ala Leu Gly Gly Leu Thr Lys Ser Met Ala Leu
 210 215 220
 Glu Leu Val Gln His Lys Ile Leu Val Asn Ala Val Ala Pro Gly Ala
 225 230 235 240
 Ile Ala Thr Pro Met Asn Asp Met Asp Asp Ser Glu Val Lys Glu Gly
 245 250 255
 Ser Met Pro Glu Ile Pro Leu Ala Arg Pro Gly His Thr Lys Glu Ile
 260 265 270
 Ala Ser Leu Val Ala Trp Leu Cys Asp Ser Asp Ala Ser Tyr Thr Thr
 275 280 285
 Gly Gln Ser Phe Ile Val Asp Gly Gly Phe Met Leu Ala Asn Pro Gln
 290 295 300
 Phe Lys Pro Glu Gly
 305 310

<210> 6636

<211> 215

<212> PRT

<213> Enterobacter cloacae

<400> 6636

```

Ser Lys Ala Cys Ile Ile Leu Lys Leu Ser Leu Thr Gly Arg Gln Gln
1      5      10      15
Gly Gly Val Met Asn His Val Trp Gly Leu Phe Ser His Pro Asp Arg
20      25      30
Glu Met Gln Val Ile Arg Asn Glu Asn Glu Thr Val Ala His His Tyr
35      40      45
Thr His His Val Leu Leu Met Ala Ala Val Pro Val Val Cys Ala Phe
50      55      60
Ile Gly Thr Thr Gln Ile Gly Trp Asn Phe Gly Asp Gly Thr Val Val
65      70      75      80
Gln Leu Ser Trp Phe Thr Gly Leu Tyr Leu Ala Ile Leu Phe Tyr Gly
85      90      95
Leu Met Leu Ala Gly Val Ala Val Met Gly Arg Val Ile His Trp Met
100     105     110
Ala Arg Asn Tyr Pro Gln Arg Pro Ser Leu Ala His Cys Met Val Phe
115     120     125
Ala Gly Tyr Val Ala Thr Pro Leu Phe Leu Ser Gly Ile Val Ala Leu
130     135     140
Tyr Pro Leu Val Trp Leu Cys Ala Leu Ile Gly Thr Val Ala Leu Phe
145     150     155     160
Tyr Thr Gly Tyr Leu Leu Tyr Val Gly Val Pro Thr Phe Leu Asn Ile
165     170     175
Asn Lys Glu Glu Gly Leu Ser Phe Ser Ser Ser Thr Leu Ala Ile Gly
180     185     190
Val Leu Val Leu Glu Ala Leu Leu Ala Leu Thr Val Ile Leu Trp Gly
195     200     205
Tyr Gly Tyr Arg Leu Phe
210           215

```

<210> 6637

<211> 89

<212> PRT

<213> Enterobacter cloacae

<400> 6637

```

Cys Pro Gln Arg Thr Ala Arg Ala Ala Ser Leu Ala His His Tyr Pro
1      5      10      15
Gly Gly Tyr Asp Ala Phe Ile Arg Ala Met Asn Ala Lys Ala Lys Ala
20      25      30
Leu Gly Met Lys Asn Thr His Phe Val Glu Pro Thr Gly Leu Ser Ile
35      40      45
His Asn Val Ser Thr Gly Arg Asp Leu Thr Lys Leu Leu Ile Ala Ser
50      55      60
Lys Gln Tyr Pro Leu Ile Gly Gln Leu Asn Thr Thr Pro Glu Glu Met
65      70      75      80
Ala Asn Phe Ser Lys Pro Gly Val
85

```

<210> 6638

<211> 477

<212> PRT

<213> Enterobacter cloacae

<400> 6638

```

Val His Gly Val Met Lys Arg Ser Leu Thr Leu Ser Leu Ser Ala Pro
1      5      10      15
Leu Val Phe Met Leu Ala Ala Cys Ala Pro Glu His Ala Thr Val Ser
20      25      30
Pro Val Lys Thr Gln Ala Ala Ala Ala Thr Val Asn Thr Gln Leu Arg
35      40      45

```

His Ala Asp Trp Pro Lys Ser Glu Trp Trp Lys Asp Phe Asn Asp Ser
 50 55 60
 Gln Leu Asn Ala Leu Ile Asp Lys Ala Leu Ala Asp Ala Pro Asp Met
 65 70 75 80
 Gln Ile Ala Arg Gln Arg Ile Thr Leu Ala Glu Ala Gln Ala Lys Ala
 85 90 95
 Ala Val Ala Ala Glu Gly Pro Gln Leu Asp Phe Ser Ala Asp Val Glu
 100 105 110
 Arg Gln Lys Met Ser Ala Glu Gly Leu Met Gly Pro Phe Ala Leu Thr
 115 120 125
 Asp Pro Ala Ala Gly Thr Thr Gly Pro Trp Tyr Thr Asn Gly Thr Phe
 130 135 140
 Gly Leu Thr Ala Gly Trp Asp Leu Asp Leu Trp Gly Lys Asn Arg Ala
 145 150 155 160
 Gln Ile Glu Ala Arg Ile Gly Lys Val Asn Ala Gln Lys Ala Glu Leu
 165 170 175
 Glu Gln Thr Arg Gln Leu Leu Ala Ser Ser Val Ala Arg Leu Tyr Trp
 180 185 190
 Asp Trp Gln Thr Glu Ala Ala Val Gly Asp Val Leu Ala Gln Ile Lys
 195 200 205
 Arg Glu Gln Glu Asn Ile Ile Gly Ala Asp Arg Glu Leu Tyr Gln His
 210 215 220
 Gly Ile Thr Ser Ser Val Glu Gly Val Glu Thr Asp Ile Ser Ala Ser
 225 230 235 240
 Lys Thr Asp Glu Gln Leu Ala Asp Val His Gly Lys Met Lys Ala Ile
 245 250 255
 Glu Ala Arg Leu Asn Ala Leu Thr Asn Thr Pro Ser Val Thr Leu Ala
 260 265 270
 Arg His Ala Leu Pro Asp Ala Glu Ala Ser Leu Pro Ser Thr Leu Gly
 275 280 285
 Tyr Glu Leu Leu Ala Arg Arg Pro Asp Leu Gln Glu Ala His Trp Tyr
 290 295 300
 Ile Glu Ala Ser Met Ser Glu Val Asp Ala Ala Arg Ala Ala Phe Tyr
 305 310 315 320
 Pro Asp Ile Asn Leu Met Ala Phe Leu Gln Gln Asp Ala Leu His Leu
 325 330 335
 Ser Asp Leu Phe Arg Ser Ser Ala Gln Met Gly Val Thr Ala Gly
 340 345 350
 Leu Thr Leu Pro Ile Phe Asp Ser Gly Arg Leu Asn Ala Asn Leu Asp
 355 360 365
 Ile Ala Gln Ala Gln Asn Asn Leu Ser Val Ala Asn Tyr Asn Lys Ala
 370 375 380
 Val Val Asp Ala Val Asn Gln Val Ala Arg Thr Ala Ser Glu Val Glu
 385 390 395 400
 Thr Leu Thr Ala Lys Asn Gln His Gln Gln Ile Glu Lys Asp Ala
 405 410 415
 Ala Arg Val Val Ala Leu Ala Gln Ala Arg Phe Arg Ala Gly Ile Ile
 420 425 430
 Ala Gly Ser Arg Val Ser Glu Ala Lys Ile Pro Ala Leu Lys Glu Arg
 435 440 445
 Ile Ala Gly Leu Met Leu Lys Gly Gln Tyr Val Asp Ala Thr Leu Gln
 450 455 460
 Leu Thr Ser Ala Leu Gly Gly Gly Tyr His His Gly
 465 470 475

<210> 6639

<211> 853

<212> PRT

<213> Enterobacter cloacae

<400> 6639

Val	Lys	Pro	Gly	Ala	Ile	Ser	Tyr	Leu	Pro	Met	Asn	Asn	Thr	Ser	Glu
1				5					10					15	
Tyr	Ile	Asp	Ala	Met	Pro	Leu	Thr	Asp	Ile	Lys	Lys	Ala	Ala	Leu	Pro
			20					25					30		
Ala	Ser	Asp	Ile	Arg	Ala	Val	His	Thr	Ala	Leu	Asp	Gly	Glu	His	Arg
		35					40					45			
His	Phe	Ser	Arg	Asp	Asp	Asp	Thr	Pro	Leu	Gly	Ser	Val	Lys	Ala	Arg
	50					55					60				
Leu	Glu	Gln	Ala	Trp	Pro	Asp	Ser	Leu	Ala	Glu	Gly	Gln	Leu	Ile	Lys
65					70					75					80
Asp	Asp	Glu	Gly	Arg	Asp	Gln	Leu	Gln	Ala	Met	Pro	Lys	Ala	Thr	Arg
				85					90					95	
Ser	Ser	Met	Phe	Pro	Asp	Pro	Trp	Arg	Thr	Asn	Pro	Val	Gly	Arg	Phe
			100					105					110		
Trp	Asp	Arg	Leu	Arg	Gly	Arg	Asp	Val	Thr	Pro	Arg	Tyr	Leu	Ser	Arg
		115					120					125			
Leu	Thr	Lys	Glu	Gln	Gln	Ala	Ser	Glu	Gln	Lys	Trp	Arg	Thr	Val	Gly
	130					135						140			
Thr	Ile	Arg	Arg	Tyr	Ile	Leu	Leu	Leu	Leu	Thr	Leu	Ala	Gln	Thr	Val
145					150					155					160
Val	Ala	Thr	Trp	Tyr	Met	Lys	Thr	Ile	Leu	Pro	Tyr	Gln	Gly	Trp	Ala
				165					170					175	
Leu	Ile	Asn	Pro	Ala	Asp	Met	Ile	Gly	Gln	Asp	Ile	Trp	Val	Ser	Phe
			180					185					190		
Met	Gln	Leu	Leu	Pro	Tyr	Ile	Leu	Gln	Ser	Gly	Ile	Leu	Leu	Leu	Phe
		195					200					205			
Ala	Val	Leu	Phe	Cys	Trp	Val	Ser	Ala	Gly	Phe	Trp	Thr	Ala	Leu	Met
	210					215					220				
Gly	Phe	Leu	Gln	Leu	Leu	Met	Gly	Arg	Asp	Lys	Tyr	Ser	Ile	Ser	Ala
225					230					235					240
Ser	Thr	Val	Gly	Asp	Glu	Pro	Leu	Asn	Pro	Glu	His	Arg	Thr	Ala	Leu
				245					250					255	
Ile	Met	Pro	Ile	Cys	Asn	Glu	Asp	Val	Asp	Arg	Val	Phe	Ala	Gly	Leu
			260				265						270		
Arg	Ala	Thr	Trp	Glu	Ser	Val	Lys	Ala	Thr	Gly	Asn	Ala	Ala	His	Phe
		275					280					285			
Asp	Val	Tyr	Ile	Leu	Ser	Asp	Ser	Tyr	Asn	Pro	Asp	Ile	Cys	Val	Ala
	290					295					300				
Glu	Gln	Lys	Ala	Trp	Met	Glu	Leu	Ile	Ala	Glu	Val	Gln	Gly	Glu	Gly
305					310					315					320
Gln	Ile	Phe	Tyr	Arg	Arg	Arg	Arg	Arg	Arg	Val	Lys	Arg	Lys	Ser	Gly
				325					330					335	
Asn	Ile	Asp	Asp	Phe	Cys	Arg	Arg	Trp	Gly	Asn	Gln	Tyr	Ser	Tyr	Met
			340					345					350		
Val	Val	Leu	Asp	Ala	Asp	Ser	Val	Met	Ser	Gly	Asp	Cys	Leu	Ser	Gly
		355					360					365			
Leu	Val	Arg	Leu	Met	Glu	Ala	Asn	Pro	Asn	Ala	Gly	Ile	Ile	Gln	Ser
	370					375					380				
Ser	Pro	Lys	Ala	Ser	Gly	Met	Asp	Thr	Leu	Tyr	Ala	Arg	Cys	Gln	Gln
385					390					395					400
Phe	Ala	Thr	Arg	Val	Tyr	Gly	Pro	Leu	Phe	Thr	Ala	Gly	Leu	His	Phe
				405					410					415	
Trp	Gln	Leu	Gly	Glu	Ser	His	Tyr	Trp	Gly	His	Asn	Ala	Ile	Ile	Arg
			420					425					430		
Val	Lys	Pro	Phe	Ile	Glu	His	Cys	Ala	Leu	Ala	Pro	Leu	Pro	Gly	Glu
		435					440					445			
Gly	Ser	Phe	Ala	Gly	Ser	Ile	Leu	Ser	His	Asp	Phe	Val	Glu	Ala	Ala
	450					455					460				
Leu	Met	Arg	Arg	Ala	Gly	Trp	Gly	Val	Trp	Ile	Ala	Tyr	Asp	Leu	Pro
465					470					475					480
Gly	Ser	Tyr	Glu	Glu	Leu	Pro	Pro	Asn	Leu	Leu	Asp	Glu	Leu	Lys	Arg

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<210> 6640
<211> 79
<212> PRT
<213> Enterobacter cloacae
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<400> 6640															
Arg	Ser	Asp	Met	Lys	Val	Ile	Ile	Val	Val	Met	Met	Ala	Cys	Leu	Leu
1				5					10					15	
Ser	Gly	Cys	Gly	Ser	Ile	Ile	Ser	Arg	Thr	Ile	Pro	Gly	Gln	Gly	His
			20					25					30		
Gly	Asn	Gln	Tyr	Tyr	Pro	Gly	Val	Gln	Trp	Asp	Val	Arg	Asp	Ser	Ala
		35					40					45			
Trp	Arg	Tyr	Leu	Thr	Val	Ile	Asp	Leu	Pro	Phe	Ser	Leu	Ile	Phe	Asp

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<210> 6641
<211> 379
<212> PRT
<213> Enterobacter cloacae
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Arg 1	Lys	Leu	Cys	Gly 5	Cys	Lys	Leu	Ser	Leu 10	Phe	Ala	Ile	Ser	Cys 15	Arg
Pro	Ile	Phe	Ile	Ser	Gln	Arg	Leu	Gln	Asp	Leu	Tyr	Thr	Met	Pro	Val
			20					25					30		
Leu	His	Asn	Arg	Val	Ser	Asn	Glu	Met	Leu	Lys	Ala	Arg	Met	Leu	Ala
		35					40					45			
Glu	Thr	Glu	Pro	Arg	Thr	Thr	Ile	Ser	Phe	Tyr	Lys	Tyr	Phe	Thr	Ile
		50				55					60				
Asp	Asp	Pro	Gln	Ala	Thr	Arg	Asp	Ala	Leu	Tyr	Gln	Ala	Phe	Thr	Ala
65					70					75					80
Leu	Asn	Val	Phe	Gly	Arg	Val	Tyr	Leu	Ala	Arg	Glu	Gly	Ile	Asn	Ala
				85					90					95	
Gln	Ile	Ser	Val	Pro	Glu	Ser	Lys	Val	Ser	Ala	Phe	Arg	Asp	Leu	Leu
			100					105					110		
Tyr	Gly	Phe	Asp	Pro	Ala	Leu	Asn	Gly	Leu	Arg	Leu	Asn	Ile	Ala	Leu
		115					120					125			
Asp	Asp	Asp	Gly	Lys	Ser	Phe	Trp	Val	Leu	Arg	Met	Lys	Val	Arg	Glu
		130				135					140				
Arg	Ile	Val	Ala	Asp	Gly	Ile	Asp	Asp	Pro	Ser	Phe	Asn	Ala	Ala	Asn
145					150					155					160
Val	Gly	Glu	Tyr	Leu	Lys	Ala	Ala	Glu	Val	Asn	Ala	Met	Leu	Asp	Asp
				165					170					175	
Pro	Asp	Ala	Val	Phe	Ile	Asp	Met	Arg	Asn	His	Tyr	Glu	Tyr	Glu	Val
			180					185					190		
Gly	His	Phe	Glu	Asn	Ala	Met	Glu	Ile	Pro	Ala	Asp	Thr	Phe	Arg	Glu
		195					200					205			
Gln	Leu	Pro	Lys	Ala	Val	Glu	Met	Met	Gln	Glu	His	Lys	Asp	Lys	Lys
						215					220				
Ile	Val	Met	Tyr	Cys	Thr	Gly	Gly	Ile	Arg	Cys	Glu	Lys	Ala	Ser	Ala
225					230					235					240
Trp	Met	Lys	His	Asn	Gly	Phe	Asn	Lys	Val	Trp	His	Ile	Glu	Gly	Gly
				245					250					255	
Ile	Ile	Glu	Tyr	Ala	Arg	Arg	Ala	Arg	Glu	Gln	Gly	Leu	Pro	Val	Arg
			260					265					270		
Phe	Ile	Gly	Lys	Asn	Phe	Val	Phe	Asp	Glu	Arg	Met	Gly	Glu	Arg	Ile
		275					280					285			
Ser	Glu	Asp	Val	Ile	Ala	His	Cys	His	Gln	Cys	Gly	Thr	Pro	Cys	Asp
		290				295					300				
Thr	His	Thr	Asn	Cys	Lys	Asn	Asp	Gly	Cys	His	Leu	Leu	Phe	Ile	Gln
305					310					315					320
Cys	Pro	Ala	Cys	Ala	Glu	Lys	Phe	Asn	Gly	Cys	Cys	Ser	Glu	Leu	Cys
				325					330					335	
Ser	Glu	Glu	Ser	Met	Leu	Pro	Glu	Glu	Glu	Gln	Arg	Arg	Arg	Arg	Ala
			340					345					350		
Gly	Arg	Glu	Asn	Gly	Asn	Lys	Ile	Phe	Asn	Lys	Ser	Arg	Gly	Arg	Leu

<210>	6642
<211>	538

<212> PRT

<213> Enterobacter cloacae

<400> 6642

Val	Ser	Ile	Lys	Met	Asp	Arg	Ile	Asp	Ile	Ser	Thr	Gln	Arg	Gly	Lys
1				5					10					15	
Cys	Leu	Leu	Ile	Met	Lys	His	Lys	Pro	Gln	Met	Met	Lys	Met	Arg	Trp
			20					25					30		
Leu	Gly	Val	Ala	Val	Leu	Leu	Ser	Leu	Tyr	Thr	Ser	Ser	Ala	Leu	Ala
		35					40					45			
Phe	Asn	Ile	Asp	Asp	Val	Ala	Lys	Gln	Ala	Lys	Ser	Met	Ala	Gly	Lys
	50					55					60				
Ser	Tyr	Glu	Ala	Pro	Lys	Ser	Asn	Leu	Pro	Ser	Val	Phe	Arg	Asp	Met
65					70					75					80
Lys	Tyr	Ala	Asp	Tyr	Gln	Gln	Ile	Gln	Phe	Asn	His	Asp	Lys	Ala	Tyr
				85					90					95	
Trp	Asn	Asn	Ile	Lys	Thr	Pro	Phe	Lys	Leu	Glu	Phe	Tyr	His	Gln	Gly
			100					105					110		
Met	Tyr	Phe	Asp	Thr	Pro	Val	Ala	Ile	Asn	Glu	Val	Thr	Ala	Thr	Ala
		115					120					125			
Val	Arg	Lys	Ile	Lys	Tyr	Ser	Pro	Asp	Tyr	Phe	Asn	Phe	Gly	Asp	Val
	130						135				140				
Gln	His	Asp	Lys	Asp	Thr	Val	Lys	Asp	Leu	Gly	Phe	Ala	Gly	Phe	Lys
145					150					155					160
Val	Leu	Tyr	Pro	Ile	Asn	Ser	Lys	Asp	Lys	Asn	Asp	Glu	Ile	Val	Ser
				165					170					175	
Met	Leu	Gly	Ala	Ser	Tyr	Phe	Arg	Val	Ile	Gly	Ala	Gly	Gln	Val	Tyr
			180					185					190		
Gly	Leu	Ser	Ala	Arg	Gly	Leu	Ala	Ile	Asp	Thr	Ala	Leu	Pro	Ser	Gly
		195					200					205			
Glu	Glu	Phe	Pro	Arg	Phe	Arg	Glu	Phe	Trp	Ile	Glu	Arg	Pro	Lys	Pro
	210					215					220				
Thr	Asp	Lys	Arg	Leu	Thr	Ile	Tyr	Ala	Leu	Leu	Asp	Ser	Pro	Arg	Ala
225					230					235					240
Thr	Gly	Ala	Tyr	Arg	Phe	Val	Ile	Met	Pro	Gly	Arg	Asp	Thr	Val	Val
				245					250					255	
Asp	Val	Gln	Ser	Lys	Val	Tyr	Leu	Arg	Asp	Lys	Val	Gly	Lys	Leu	Gly
			260					265					270		
Val	Ala	Pro	Leu	Thr	Ser	Met	Phe	Leu	Phe	Gly	Pro	Asn	Gln	Pro	Ser
		275					280					285			
Pro	Ala	Thr	Asn	Phe	Arg	Pro	Glu	Leu	His	Asp	Ser	Asn	Gly	Leu	Ser
	290					295					300				
Ile	His	Ala	Gly	Asn	Gly	Glu	Trp	Ile	Trp	Arg	Pro	Leu	Asn	Asn	Pro
305					310					315					320
Lys	His	Leu	Ala	Val	Ser	Ser	Phe	Ala	Met	Glu	Asn	Pro	Gln	Gly	Phe
				325					330					335	
Gly	Leu	Leu	Gln	Arg	Gly	Arg	Gln	Phe	Ser	Arg	Phe	Glu	Asp	Leu	Asp
			340				345						350		
Asp	Arg	Tyr	Asp	Leu	Arg	Pro	Ser	Ala	Trp	Val	Thr	Pro	Lys	Gly	Asp
		355					360					365			
Trp	Gly	Lys	Gly	Lys	Val	Glu	Leu	Val	Glu	Ile	Pro	Thr	Asn	Asp	Glu
	370					375					380				
Thr	Asn	Asp	Asn	Ile	Val	Ala	Tyr	Trp	Thr	Pro	Asp	Gln	Leu	Pro	Glu
385					390					395					400
Ala	Gly	Lys	Glu	Met	Asn	Phe	Lys	Tyr	Ala	Ile	Thr	Phe	Ser	Arg	Asp
				405					410					415	
Glu	Asp	Lys	Leu	His	Ala	Pro	Asp	Asn	Ala	Tyr	Val	Met	Gln	Thr	Arg
			420					425					430		
Arg	Ser	Thr	Gly	Asp	Val	Lys	Gln	Ser	Asn	Leu	Ile	Arg	Gln	Pro	Asp
		435					440					445			
Gly	Thr	Leu	Ala	Phe	Ile	Val	Asp	Phe	Thr	Gly	Gln	Asp	Met	Lys	Lys

450	455	460
Leu Ala Pro Asp Thr	Ala Val Thr Ala Gln Ala Ser Ile Gly Asp Asn	
465	470	475
Gly Glu Ile Val Glu Asn Ala Val Arg Tyr Asn Pro Val Thr Lys Gly		480
	485	490
Trp Arg Leu Thr Leu Arg Val Lys Val Lys Asp Pro Lys Gln Thr Thr		495
	500	505
Glu Met Arg Ala Ala Leu Val Ser Asn Asp Lys Pro Leu Ser Glu Thr		510
	515	520
Trp Ser Tyr Gln Leu Pro Ala Asn Glu		525
530	535	

<210> 6643

<211> 207

<212> PRT

<213> Enterobacter cloacae

<400> 6643

Ser Ala Cys Leu Ala Val Arg Gln Leu Thr Leu Glu His Lys Met Lys	
1	5
Lys Arg Leu Leu Gly Ile Ala Leu Gly Ser Leu Leu Phe Thr Thr Gly	10
	15
	20
Ser Ala Leu Ala Ala Asp Tyr Lys Ile Asp Lys Glu Gly Gln His Ala	25
	30
	35
Phe Val Asn Phe Arg Ile Gln His Leu Gly Tyr Ser Trp Leu Tyr Gly	40
	45
	50
Thr Phe Asn Asp Phe Asp Gly Thr Phe Thr Phe Asp Glu Lys Asn Pro	55
	60
	65
Ala Ala Asp Lys Val Asn Val Thr Ile Asn Thr Asn Ser Val Asp Thr	70
	75
	80
	85
Asn His Ala Glu Arg Asp Lys His Leu Arg Ser Ala Glu Phe Leu Asn	90
	95
	100
Val Gly Lys Phe Pro Gln Ala Thr Phe Ala Ser Thr Glu Val Lys Lys	105
	110
	115
Asp Ser Asp Lys Leu Ala Ile Thr Gly Asn Leu Thr Leu Asn Gly Val	120
	125
	130
Thr Lys Pro Val Thr Leu Asp Ala Lys Leu Ile Gly Gln Gly Asp Asp	135
	140
	145
Pro Trp Gly Gly Lys Arg Ala Gly Phe Glu Ala Ala Gly Lys Ile His	150
	155
	160
	165
Leu Lys Asp Phe Asn Ile Thr Thr Asp Leu Gly Pro Ala Ser Gln Asp	170
	175
	180
Val Glu Leu Ile Ile Ser Val Glu Gly Val Gln Gln Lys Ser	185
	190
	195
	200
	205

<210> 6644

<211> 319

<212> PRT

<213> Enterobacter cloacae

<400> 6644

Pro Phe Arg Thr Leu Glu His Arg Thr Asp Met Thr Gln Leu Pro Lys	
1	5
Phe Thr Ala Ala Leu Leu His Pro Arg Tyr Trp Leu Thr Trp Ser Gly	10
	15
	20
Ile Gly Leu Leu Trp Leu Ile Val Gln Leu Pro Tyr Pro Val Ile Phe	25
	30
	35
Arg Met Gly Lys Gly Leu Gly Arg Ile Ala Gln Gln Phe Met Lys Arg	40
	45
	50
Arg Ala Arg Ile Ala Tyr Arg Asn Leu Glu Leu Cys Phe Pro Gln Met	55
	60
	65
	70
	75
	80

Ser Glu Ser Glu Arg His Asp Met Val Val Lys Asn Phe Glu Ser Val
 85 90 95
 Gly Met Gly Leu Met Glu Thr Gly Met Ala Trp Phe Trp Ser Asp Lys
 100 105 110
 Arg Met Ala Arg Trp Thr Glu Val Ala Gly Thr Gly Met Glu Pro Val
 115 120 125
 His Thr Leu Gln Ala Asn Gln Thr Gly Val Leu Leu Ile Gly Val His
 130 135 140
 Phe Leu Thr Leu Glu Ile Gly Ala Arg Met Phe Gly Met Gln Ala Pro
 145 150 155 160
 Gly Ile Gly Val Tyr Arg Pro Asn Asp Asn Pro Val Ile Asp Leu Ile
 165 170 175
 Gln Thr Asn Gly Arg Met Arg Ser Asn Lys Ser Met Ile Asp Arg Lys
 180 185 190
 Asp Leu Lys Gly Met Ile Arg Ala Leu Lys Ser Gly Glu Val Val Trp
 195 200 205
 Tyr Ala Pro Asp His Asp Tyr Gly Pro Gln Ser Ser Val Phe Val Pro
 210 215 220
 Phe Phe Ala Val Glu Asp Ala Ala Thr Thr Thr Gly Thr Trp Met Leu
 225 230 235 240
 Ala Arg Met Ser Lys Ala Ala Ile Val Pro Phe Val Pro Arg Arg Lys
 245 250 255
 Pro Asp Gly Ser Gly Tyr Gln Leu Ile Met Leu Glu Pro Glu Leu Ala
 260 265 270
 Pro Pro Leu Ile Asp Ala Glu Thr Thr Ala Arg Trp Met Asn Gly Val
 275 280 285
 Val Glu Lys Cys Ile Met Leu Ala Pro Glu Gln Tyr Met Trp Leu His
 290 295 300
 Arg Arg Phe Lys Thr Arg Pro Gln Gly Val Pro Ser Arg Tyr
 305 310 315

<210> 6645

<211> 430

<212> PRT

<213> Enterobacter cloacae

<400> 6645

Gln Ala Tyr Tyr Leu Thr Gly His Gly Ala Leu His Leu Ile Met Arg
 1 5 10 15
 Ile Val Met Ser Pro Thr Asp Ala Pro Ile Asn Trp Lys Arg Asn Leu
 20 25 30
 Thr Val Ala Trp Leu Gly Cys Phe Leu Thr Gly Ala Ala Phe Ser Leu
 35 40 45
 Val Met Pro Phe Leu Pro Leu Tyr Val Glu Gln Leu Gly Val Thr Gly
 50 55 60
 His Ser Ala Leu Asn Met Trp Ser Gly Leu Val Phe Ser Ile Thr Phe
 65 70 75 80
 Leu Phe Ser Ala Ile Ala Ser Pro Phe Trp Gly Gly Leu Ala Asp Arg
 85 90 95
 Lys Gly Arg Lys Ile Met Leu Leu Arg Ser Ala Leu Gly Met Ala Ile
 100 105 110
 Ile Met Leu Leu Met Gly Met Ala Gln Asn Val Trp Gln Phe Leu Ile
 115 120 125
 Leu Arg Ala Leu Leu Gly Leu Leu Gly Gly Phe Ile Pro Asn Ala Asn
 130 135 140
 Ala Leu Ile Ala Thr Gln Ile Pro Arg Gln Lys Ser Gly Trp Ala Leu
 145 150 155 160
 Gly Thr Leu Ser Thr Gly Gly Val Ser Gly Ala Leu Leu Gly Pro Leu
 165 170 175
 Ala Gly Gly Leu Leu Ala Asp His Tyr Gly Leu Arg Pro Val Phe Phe
 180 185 190

Ile Thr Ala Ser Val Leu Phe Leu Cys Phe Leu Val Thr Leu Ile Cys
 195 200 205
 Ile Arg Glu Asn Phe Thr Pro Val Ala Lys Lys Glu Met Leu His Ala
 210 215 220
 Arg Asp Val Leu Ala Ser Leu Lys Asn Pro Lys Leu Val Leu Ser Leu
 225 230 235 240
 Phe Val Thr Thr Met Ile Ile Gln Val Ala Thr Gly Ser Ile Ala Pro
 245 250 255
 Ile Leu Thr Leu Tyr Val Arg Asp Leu Ala Gly Asn Val Ser Asn Ile
 260 265 270
 Ala Phe Ile Ser Gly Leu Ile Ala Ser Val Pro Gly Val Ala Ala Leu
 275 280 285
 Leu Ser Ala Pro Arg Leu Gly Lys Leu Gly Asp Arg Ile Gly Pro Glu
 290 295 300
 Lys Ile Leu Ile Cys Ala Leu Ile Val Ser Val Leu Leu Leu Ile Pro
 305 310 315 320
 Met Ala Met Val Gln Ser Pro Trp Gln Leu Gly Val Leu Arg Phe Leu
 325 330 335
 Leu Gly Ala Ala Asp Gly Ala Leu Leu Pro Ala Val Gln Thr Leu Leu
 340 345 350
 Val Tyr Asn Ser Thr Asn Gln Ile Ala Gly Arg Ile Phe Ser Tyr Asn
 355 360 365
 Gln Ser Phe Arg Asp Leu Gly Asn Val Thr Gly Pro Leu Val Gly Ala
 370 375 380
 Gly Ile Ser Ala Ser Phe Gly Phe Arg Ala Val Phe Ile Val Thr Ala
 385 390 395 400
 Gly Val Val Leu Phe Asn Ala Val Tyr Ser Trp Leu Ser Leu Ser Arg
 405 410 415
 Ala Leu Arg Pro Gly Arg Ile Arg Gln His Arg Asp Gly
 420 425 430

<210> 6646

<211> 157

<212> PRT

<213> Enterobacter cloacae

<400> 6646

Gly Glu Lys Ser Glu Asn Ala Gln Ser Tyr Met Ser Thr Thr Pro Val
 1 5 10 15
 Gln Arg Glu Tyr Phe Leu Asp Ser Ile Arg Ala Trp Leu Met Leu Leu
 20 25 30
 Gly Ile Pro Phe His Ile Ser Leu Ile Tyr Ser Ser His Thr Trp His
 35 40 45
 Val Asn Ser Gln Met Pro Ser Trp Trp Leu Thr Leu Phe Asn Asp Phe
 50 55 60
 Ile His Ala Phe Arg Met Gln Val Phe Phe Val Ile Ser Gly Tyr Phe
 65 70 75 80
 Ser Tyr Met Leu Phe Leu Arg Tyr Pro Leu Lys Arg Trp Trp Lys Val
 85 90 95
 Arg Val Glu Arg Val Gly Ile Pro Met Leu Thr Ala Ile Pro Leu Leu
 100 105 110
 Thr Leu Pro Gln Phe Ile Met Leu Gln His Val Lys Gly Lys Ala Glu
 115 120 125
 Asn Trp Pro Asn Leu Ser Phe Tyr Glu Lys Tyr Asn Thr Leu Val Trp
 130 135 140
 Glu Leu Ile Ser His Leu Trp Phe Leu Leu Val Leu Val
 145 150 155

<210> 6647

<211> 103

<212> PRT

<213> Enterobacter cloacae

<400> 6647

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Arg Gln Glu Arg Gln Pro Tyr Gly Ala Tyr Pro Gln Asp Gly Ser Glu
1          5          10          15
Ala Phe Thr Phe Leu Arg Asn Ile Leu Pro Gly Val Gly Gly Leu Leu
          20          25          30
Tyr Gly Ala Ala Cys Thr Tyr Asp Asn Thr Leu Asp Glu Asp Phe Ile
          35          40          45
Ile Asp Thr Leu Pro Gly His Asp Asn Thr Leu Leu Val Thr Gly Leu
          50          55          60
Ser Gly His Gly Phe Lys Phe Ala Ser Val Leu Gly Glu Ile Ala Ala
65          70          75          80
Gln Phe Ala Gln Gly Ile Ala Pro Ser Phe Asp Leu Lys Pro Phe Ala
          85          90          95
Leu Ser Arg Phe Asp Arg
          100

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<210> 6648

<211> 217

<212> PRT

<213> Enterobacter cloacae

<400> 6648

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Asn Thr Leu Phe Ile Phe Phe Ser Cys Ile Ile Tyr Leu Thr Arg Pro
1          5          10          15
Phe Leu Leu Leu Ser His Leu Arg Thr Glu Ile His Met Gln Trp Arg
          20          25          30
Asn Ser Ser Arg Arg Tyr Gly Ile Ser Met Cys Leu His Trp Leu
          35          40          45
Phe Ala Ile Ala Val Tyr Ala Met Phe Gly Leu Gly Leu Trp Met Val
          50          55          60
Thr Leu Ser Tyr Tyr Asp Gly Trp Tyr His Gln Ala Pro Glu Leu His
65          70          75          80
Lys Ser Ile Gly Val Leu Leu Met Met Gly Leu Val Phe Arg Val Ile
          85          90          95
Trp Arg His Ile Ser Pro Pro Pro Pro Ala Pro Lys Ser His Gly Arg
          100          105          110
Leu Thr Arg Ile Ser Ala Val Gly Ala His Ile Ala Leu Tyr Ala Leu
          115          120          125
Leu Phe Ala Ile Leu Ile Ser Gly Tyr Leu Ile Ser Thr Ala Asp Gly
          130          135          140
Lys Pro Ile Ser Val Phe Gly Leu Phe Asp Val Pro Ala Thr Leu Ala
145          150          155          160
Asp Ala Gly Ser Gln Ala Asp Thr Ala Gly Val Val His Leu Trp Leu
          165          170          175
Ala Trp Ser Val Val Ile Leu Ser Val Leu His Gly Leu Ala Ala Leu
          180          185          190
Lys His His Phe Ile Asp Lys Asp Asp Thr Leu Lys Arg Met Leu Gly
          195          200          205
Arg Ser Ser Val Asp Ser Gly Ala
          210          215

```

<210> 6649

<211> 141

<212> PRT

<213> Enterobacter cloacae

<400> 6649

```

Ser Ala Ile Leu Ser Leu Asn Thr Phe Thr Lys Asn Arg Glu Thr Pro
1          5          10          15

```

```

Met Thr Met Tyr Ala Thr Leu Glu Glu Ala Ile Asp Ala Ala Arg Glu
      20      25      30
Glu Phe Leu Ala Asp Asn Pro Gly Ile Glu Glu Glu Asp Ala Asp Val
      35      40      45
Gln Gln Leu Asn Ile Gln Lys Tyr Val Leu Gln Asp Gly Asp Ile Met
      50      55      60
Trp Gln Ala Glu Phe Phe Ala Asp Glu Gly Glu Asp Gly Glu Cys Leu
      65      70      75      80
Pro Ile Leu Ser Gly Glu Gly Ala Gln Ala Val Phe Asp Gly Asp Tyr
      85      90      95
Asp Glu Ile Glu Leu Arg Gln Glu Trp Leu Glu Glu Asn Thr Leu His
      100      105      110
Glu Trp Asp Glu Gly Glu Phe Gln Leu Glu Pro Pro Leu Asp Thr Glu
      115      120      125
Glu Gly Gln Ala Ala Ala Asp Glu Trp Asp Glu Arg
      130      135      140

```

<210> 6650

<211> 91

<212> PRT

<213> Enterobacter cloacae

<400> 6650

```

Ser His His Pro Ala Cys Val Cys Gly Ser Ala Pro Asp Arg Tyr Arg
1      5      10      15
Tyr Pro Pro Ala Pro Ala Ala Glu Asn Thr Leu Pro Gly Ser Gly Thr
      20      25      30
Ala Ser Ser Val Trp Tyr Ala Gly Gln Pro Trp Asn Gly Trp Arg Ser
      35      40      45
Pro Thr Gln Thr Ala Thr Gly Ser Ala Arg Arg Arg Leu Ala Pro Ala
      50      55      60
Arg Thr Gly Asn Ala Asp Pro Ala Arg Pro Tyr Gln Arg Pro Thr Pro
      65      70      75      80
Gly Pro Ala Ala Ala Glu Ser Arg Gly Ala
      85      90

```

<210> 6651

<211> 433

<212> PRT

<213> Enterobacter cloacae

<400> 6651

```

Ser Asn Ser Lys Leu Ile Phe Tyr His Thr Met Ser Lys Thr His Leu
1      5      10      15
Thr Glu Gln Lys Phe Ser Asp Phe Ala Leu His Pro Lys Val Ile Glu
      20      25      30
Ala Leu Glu Thr Lys Gly Phe His Asn Cys Thr Pro Ile Gln Ala Leu
      35      40      45
Ala Leu Pro Leu Thr Leu Ala Gly Arg Asp Val Ala Gly Gln Ala Gln
      50      55      60
Thr Gly Thr Gly Lys Thr Met Ala Phe Leu Thr Ser Thr Phe His Tyr
      65      70      75      80
Leu Leu Ser His Pro Ala Ile Ala Asp Arg Lys Val Asn Gln Pro Arg
      85      90      95
Ala Leu Ile Met Ala Pro Thr Arg Glu Leu Ala Val Gln Ile His Ala
      100      105      110
Asp Ala Glu Pro Leu Ala Gln Ala Thr Gly Leu Lys Leu Gly Leu Ala
      115      120      125
Tyr Gly Gly Asp Gly Tyr Asp Lys Gln Leu Lys Val Leu Glu Ser Gly
      130      135      140
Val Asp Ile Leu Ile Gly Thr Thr Gly Arg Leu Ile Asp Tyr Ala Lys

```

```

145          150          155          160
Gln Asn His Ile Asn Leu Gly Ala Ile Gln Val Val Val Leu Asp Glu
165          170          175
Ala Asp Arg Met Tyr Asp Leu Gly Phe Ile Lys Asp Ile Arg Trp Leu
180          185          190
Phe Arg Arg Met Pro Ala Ala Asn Gln Arg Leu Asn Met Leu Phe Ser
195          200          205
Ala Thr Leu Ser Tyr Arg Val Arg Glu Leu Ala Phe Glu Gln Met Asn
210          215          220
Asn Ala Glu Tyr Val Glu Val Glu Pro Glu Gln Lys Thr Gly His Arg
225          230          235
Ile Lys Glu Glu Leu Phe Tyr Pro Ser Asn Glu Glu Lys Met Arg Leu
245          250          255
Leu Gln Thr Leu Ile Glu Glu Glu Trp Pro Asp Arg Ala Ile Ile Phe
260          265          270
Ala Asn Thr Lys His Arg Cys Glu Asp Ile Trp Gly His Leu Ala Ala
275          280          285
Asp Gly His Arg Val Gly Leu Leu Thr Gly Asp Val Ala Gln Lys Lys
290          295          300
Arg Leu Arg Ile Leu Asp Glu Phe Thr Arg Gly Asp Leu Asp Ile Leu
305          310          315
Val Ala Thr Asp Val Ala Ala Arg Gly Leu His Ile Pro Ala Val Thr
325          330          335
His Val Phe Asn Tyr Asp Leu Pro Asp Asp Cys Glu Asp Tyr Val His
340          345          350
Arg Ile Gly Arg Thr Gly Arg Ala Gly Ala Ser Gly His Ser Ile Ser
355          360          365
Leu Ala Cys Glu Glu Tyr Ala Leu Asn Leu Pro Ala Ile Glu Thr Tyr
370          375          380
Ile Gly His Ser Ile Pro Gln Ser Lys Tyr Asn Pro Glu Ala Leu Leu
385          390          395
Ser Glu Leu Pro Pro Pro Lys Arg Leu Thr Arg Pro Arg Ser Gly Asn
405          410          415
Gly Pro Arg Arg Ser Gly Gly Ala Pro Arg Asn Arg Arg Arg Ser Gly
420          425          430

```

<210> 6652

<211> 497

<212> PRT

<213> Enterobacter cloacae

<400> 6652

```

Glu Asn Met Leu Ser Ser Thr Ser Leu Tyr Ala Ala Ile Asp Leu Gly
1      5      10      15
Ser Asn Ser Phe His Met Leu Val Val Arg Glu Val Ala Gly Ser Ile
20     25     30
Gln Thr Leu Thr Arg Ile Lys Arg Lys Val Arg Leu Ala Ala Gly Leu
35     40     45
Ser Ser Asp Asn His Leu Ser Pro Glu Ala Met Glu Arg Gly Trp Gln
50     55     60
Cys Leu Arg Leu Phe Ala Glu Arg Leu Gln Asp Ile Pro Leu Ser Gln
65     70     75     80
Ile Arg Val Val Ala Thr Ala Thr Leu Arg Leu Ala Val Asn Ala Gly
85     90     95
Asp Phe Ile Ala Arg Ala Gln Glu Ile Leu Gly Cys Pro Val Gln Val
100    105    110
Ile Ser Gly Glu Glu Glu Ala Arg Leu Ile Tyr Gln Gly Val Ala His
115    120    125
Thr Thr Gly Gly Asp Asp Arg Arg Leu Val Val Asp Ile Gly Gly Ala

```

130		135		140	
Ser Thr Glu Leu Val Thr Gly Thr Gly Ala Gln Ala Thr Ser Leu Phe					
145		150		155	160
Ser Leu Ser Met Gly Cys Val Thr Trp Leu Glu Arg Tyr Phe Thr Asp					
	165		170		175
Arg Asn Leu Ala Lys Glu Asn Phe Asp Glu Ala Glu Asn Ala Ala Arg					
	180		185		190
Ala Val Leu Arg Pro Val Met Asp Glu Leu Arg Tyr His Gly Trp Lys					
	195		200		205
Val Cys Val Gly Ala Ser Gly Thr Val Gln Ala Leu Gln Glu Ile Met					
	210		215		220
Met Ala Gln Gly Met Asp Glu Arg Ile Thr Leu Ala Lys Leu Gln Gln					
225		230		235	240
Leu Lys Gln Arg Ala Ile Gln Cys Gly Arg Leu Glu Glu Leu Glu Ile					
	245		250		255
Glu Gly Leu Thr Leu Glu Arg Ala Leu Val Phe Pro Ser Gly Leu Ala					
	260		265		270
Ile Leu Ile Ala Ile Phe Thr Glu Leu Asn Ile Gln Cys Met Thr Leu					
	275		280		285
Ala Gly Gly Ala Leu Arg Glu Gly Leu Val Tyr Gly Met Leu His Gln					
290		295		300	
Ser Val Asp Gln Asp Ile Arg Ser Arg Thr Leu Arg Asn Val Gln Arg					
305		310		315	320
Arg Phe Ile Val Asp Thr Asp Gln Ala Gln Arg Val Ser Gln Leu Ala					
	325		330		335
Ser Gln Phe Ala Asp Gln Val Lys Lys Ser Trp Asp Ile Glu Pro Leu					
	340		345		350
Ser Arg Asp Leu Leu Leu Ser Ala Cys Ala Leu His Glu Ile Gly Leu					
	355		360		365
Ser Val Glu Tyr Lys Gln Ala Pro Leu His Ala Ala Trp Leu Val Arg					
	370		375		380
Asn Leu Asp Leu Pro Gly Tyr Thr Pro Ala Gln Lys Lys Leu Leu Ala					
385		390		395	400
Thr Leu Leu Leu Asn Gln Thr Asn Ala Val Asp Leu Ser Ser Leu His					
	405		410		415
Gln Gln Asn Ala Val Pro Pro Arg Val Ala Glu His Leu Cys Arg Leu					
	420		425		430
Leu Arg Leu Ala Ile Leu Phe Ala Ser Arg Arg Arg Asp Asp Leu Leu					
	435		440		445
Pro Ala Ile Thr Leu Ala Ala Asp Asp Glu Lys Leu Thr Leu Thr Leu					
	450		455		460
Pro Glu Asn Trp Leu Glu Asp His Pro Leu Gly Ala Glu Leu Ile Glu					
465		470		475	480
Gln Glu Tyr Gln Trp Gln Ser Tyr Val His Trp Ala Leu Asp Val Lys					
	485		490		495

<210> 6653

<211> 93

<212> PRT

<213> Enterobacter cloacae

<220>

<221> UNSURE

<222> (93)

<400> 6653

Ser Thr Gln Gly Thr Ile Met Ala Lys Thr Ala Ala Ala Leu His Ile					
1	5		10		15
Leu Val Lys Glu Glu Lys Leu Ala Gln Asp Leu Leu Glu Gln Ile Lys					

```
<210> 6654
<211> 135
<212> PRT
<213> Enterobacter cloacae
```

```
<210> 6655
<211> 677
<212> PRT
<213> Enterobacter cloacae
```

<400> 6655															
Ser	Phe	Met	Arg	Leu	Asn	Pro	Gly	Gln	Gln	Gln	Ala	Val	Glu	Phe	Val
1				5					10					15	
Thr	Gly	Pro	Cys	Leu	Val	Leu	Ala	Gly	Ala	Gly	Ser	Gly	Lys	Thr	Arg
			20					25					30		
Val	Ile	Thr	Asn	Lys	Ile	Ala	His	Leu	Ile	Arg	Gly	Cys	Gly	Tyr	Gln
		35					40					45			
Ala	Arg	His	Ile	Ala	Ala	Val	Thr	Phe	Thr	Asn	Lys	Ala	Ala	Arg	Glu
	50					55					60				
Met	Lys	Glu	Arg	Val	Gly	Gln	Thr	Leu	Gly	Arg	Lys	Glu	Ala	Arg	Gly
65					70					75					80
Leu	Met	Ile	Ser	Thr	Phe	His	Thr	Leu	Gly	Leu	Asp	Ile	Ile	Lys	Arg
				85					90					95	
Glu	Tyr	Ala	Ala	Leu	Gly	Met	Lys	Ser	Asn	Phe	Ser	Leu	Phe	Asp	Asp
			100					105					110		
Thr	Asp	Gln	Val	Ala	Leu	Leu	Lys	Glu	Leu	Thr	Glu	Gly	Leu	Ile	Glu
		115					120					125			
Asp	Asp	Lys	Val	Leu	Leu	Gln	Gln	Leu	Ile	Ser	Thr	Ile	Ser	Asn	Trp
	130					135					140				
Lys	Asn	Asp	Leu	Met	Thr	Pro	Ala	Gln	Ala	Ala	Ala	Ser	Ala	Lys	Gly
145					150					155					160

Glu	Arg	Asp	Arg	Ile	Phe	Ala	His	Cys	Tyr	Gly	Leu	Tyr	Asp	Ala	His	
				165					170					175		
Met	Lys	Ala	Cys	Asn	Val	Leu	Asp	Phe	Asp	Asp	Leu	Ile	Leu	Leu	Pro	
			180					185					190			
Thr	Leu	Leu	Leu	Gln	Arg	Asn	Glu	Glu	Val	Arg	Glu	Arg	Trp	Gln	Asn	
			195				200					205				
Lys	Ile	Arg	Tyr	Leu	Leu	Val	Asp	Glu	Tyr	Gln	Asp	Thr	Asn	Thr	Ser	
	210					215					220					
Gln	Tyr	Glu	Leu	Val	Lys	Leu	Leu	Val	Gly	Gln	Arg	Ala	Arg	Phe	Thr	
225					230					235					240	
Val	Val	Gly	Asp	Asp	Asp	Gln	Ser	Ile	Tyr	Ser	Trp	Arg	Gly	Ala	Arg	
				245					250					255		
Pro	Gln	Asn	Leu	Val	Leu	Leu	Ser	Lys	Asp	Phe	Pro	Ala	Leu	Gln	Val	
			260					265					270			
Ile	Lys	Leu	Glu	Gln	Asn	Tyr	Arg	Ser	Ser	Gly	Arg	Ile	Leu	Lys	Ala	
			275				280					285				
Ala	Asn	Ile	Leu	Ile	Ala	Asn	Asn	Pro	His	Val	Phe	Glu	Lys	Arg	Leu	
	290					295					300					
Phe	Ser	Glu	Leu	Gly	Tyr	Gly	Thr	Glu	Leu	Lys	Val	Leu	Ser	Ala	Asn	
305					310					315					320	
Asn	Glu	Glu	His	Glu	Ala	Glu	Arg	Val	Thr	Gly	Glu	Leu	Ile	Ala	His	
				325					330					335		
His	Phe	Val	Asn	Lys	Thr	Glu	Tyr	Lys	Asp	Tyr	Ala	Ile	Leu	Tyr	Arg	
			340					345				350				
Gly	Asn	His	Gln	Ser	Arg	Val	Phe	Glu	Lys	Met	Leu	Met	Gln	Asn	Arg	
		355					360					365				
Ile	Pro	Tyr	Lys	Ile	Ser	Gly	Gly	Thr	Ser	Phe	Phe	Ser	Arg	Pro	Glu	
	370					375					380					
Ile	Lys	Asp	Leu	Leu	Ala	Tyr	Leu	Arg	Val	Leu	Thr	Asn	Pro	Asp	Asp	
385					390					395					400	
Asp	Ser	Ala	Phe	Leu	Arg	Ile	Val	Asn	Thr	Pro	Lys	Arg	Glu	Ile	Gly	
				405					410					415		
Ser	Ala	Thr	Leu	Gln	Lys	Leu	Gly	Glu	Trp	Ala	Met	Thr	Arg	Asn	Lys	
			420					425					430			
Ser	Leu	Phe	Thr	Ala	Ser	Phe	Asp	Met	Gly	Leu	Ser	Gln	Thr	Leu	Thr	
			435				440					445				
Gly	Arg	Gly	Tyr	Glu	Ala	Leu	Thr	Arg	Phe	Thr	His	Trp	Leu	Gly	Glu	
	450					455					460					
Val	Gln	Arg	Leu	Ala	Glu	Arg	Glu	Pro	Val	Ala	Ala	Val	Arg	Asp	Leu	
465					470					475					480	
Ile	His	Gly	Ile	Asp	Tyr	Glu	Ser	Trp	Leu	Tyr	Glu	Thr	Ser	Ala	Ser	
				485					490					495		
Pro	Lys	Ala	Ala	Glu	Met	Arg	Met	Lys	Asn	Val	Asn	Gln	Leu	Phe	Ser	
			500					505					510			
Trp	Met	Thr	Glu	Met	Leu	Glu	Gly	Ser	Glu	Ile	Asp	Glu	Pro	Met	Thr	
			515				520					525				
Leu	Thr	Gln	Val	Val	Thr	Arg	Phe	Thr	Leu	Arg	Asp	Met	Met	Glu	Arg	
					535						540					
Gly	Glu	Ser	Glu	Glu	Glu	Ala	Asp	Gln	Val	Gln	Leu	Met	Thr	Leu	His	
545					550					555					560	
Ala	Ser	Lys	Gly	Leu	Glu	Phe	Pro	Tyr	Val	Tyr	Leu	Val	Gly	Met	Glu	
				565					570					575		
Glu	Gly	Leu	Leu	Pro	His	Gln	Ser	Ser	Ile	Asp	Glu	Asp	Asn	Val	Asp	
			580				585					590				
Glu	Glu	Arg	Arg	Leu	Ala	Tyr	Val	Gly	Ile	Thr	Arg	Ala	Gln	Lys	Glu	
			595				600					605				
Leu	Thr	Phe	Thr	Leu	Cys	Lys	Glu	Arg	Arg	Gln	Tyr	Gly	Glu	Leu	Val	
					615						620					
Arg	Pro	Glu	Pro	Ser	Arg	Phe	Leu	Leu	Glu	Leu	Pro	Gln	Asp	Asp	Leu	
625					630					635					640	
Ile	Trp	Glu	Gln	Glu	Arg	Lys	Val	Ile	Thr	Ala	Glu	Glu	Arg	Met	His	

```
<210> 6656
<211> 166
<212> PRT
<213> Enterobacter cloacae
```

```
<210> 6657
<211> 446
<212> PRT
<213> Enterobacter cloacae
```

<400>	6657														
Thr	Gly	Met	Asp	Asp	Pro	Ala	Ile	Pro	Phe	Thr	Thr	Leu	Ser	Ser	Arg
1				5					10					15	
Ile	Thr	Pro	Ser	Leu	Arg	Thr	His	Thr	Ile	Met	Asn	Leu	Thr	Glu	Leu
			20					25					30		
Lys	Asn	Thr	Pro	Val	Ser	Glu	Leu	Ile	Thr	Leu	Gly	Glu	Asn	Met	Gly
			35				40					45			
Leu	Glu	Asn	Gln	Ala	Arg	Met	Arg	Lys	Gln	Asp	Ile	Ile	Phe	Ala	Ile
	50					55					60				
Leu	Lys	Gln	His	Ala	Lys	Ser	Gly	Glu	Asp	Ile	Phe	Gly	Asp	Gly	Val
65					70					75				80	
Leu	Glu	Ile	Leu	Gln	Asp	Gly	Phe	Gly	Phe	Leu	Arg	Ser	Ala	Asp	Ser
				85					90					95	
Ser	Tyr	Leu	Ala	Gly	Pro	Asp	Asp	Ile	Tyr	Val	Ser	Pro	Ser	Gln	Ile
			100					105					110		
Arg	Arg	Phe	Asn	Leu	Arg	Thr	Gly	Asp	Thr	Ile	Ser	Gly	Lys	Ile	Arg
		115					120					125			
Pro	Pro	Lys	Glu	Gly	Glu	Arg	Tyr	Phe	Ala	Leu	Leu	Lys	Val	Asn	Glu
		130				135					140				
Val	Asn	Tyr	Asp	Lys	Pro	Glu	Asn	Ser	Arg	Asn	Lys	Ile	Leu	Phe	Glu
145					150					155					160

Asn Leu Thr Pro Leu His Ala Asn Ser Arg Leu Arg Met Glu Arg Gly
 165 170 175
 Asn Gly Ser Thr Glu Asp Leu Thr Ala Arg Val Leu Asp Leu Ala Ser
 180 185 190
 Pro Ile Gly Arg Gly Gln Arg Gly Leu Ile Val Ala Pro Pro Lys Ala
 195 200 205
 Gly Lys Thr Met Leu Leu Gln Asn Ile Ala Gln Ser Ile Ala Tyr Asn
 210 215 220
 His Pro Asp Cys Val Leu Met Val Leu Leu Ile Asp Glu Arg Pro Glu
 225 230 235 240
 Glu Val Thr Glu Met Gln Arg Leu Val Lys Gly Glu Val Val Ala Ser
 245 250 255
 Thr Phe Asp Glu Pro Ala Ser Arg His Val Gln Val Ala Glu Met Val
 260 265 270
 Ile Glu Lys Ala Lys Arg Leu Val Glu His Lys Lys Asp Val Ile Ile
 275 280 285
 Leu Leu Asp Ser Ile Thr Arg Leu Ala Arg Ala Tyr Asn Thr Val Val
 290 295 300
 Pro Ala Ser Gly Lys Val Leu Thr Gly Gly Val Asp Ala Asn Ala Leu
 305 310 315 320
 His Arg Pro Lys Arg Phe Phe Gly Ala Ala Arg Asn Val Glu Glu Gly
 325 330 335
 Gly Ser Leu Thr Ile Ile Ala Thr Ala Leu Ile Asp Thr Gly Ser Lys
 340 345 350
 Met Asp Glu Val Ile Tyr Glu Glu Phe Lys Gly Thr Gly Asn Met Glu
 355 360 365
 Leu His Leu Ser Arg Lys Ile Ala Glu Lys Arg Val Phe Pro Ala Ile
 370 375 380
 Asp Tyr Asn Arg Ser Gly Thr Arg Lys Glu Glu Leu Leu Thr Thr Gln
 385 390 395 400
 Glu Glu Leu Gln Lys Met Trp Ile Leu Arg Lys Ile Ile His Pro Met
 405 410 415
 Gly Glu Ile Asp Ala Met Glu Phe Leu Ile Asn Lys Leu Ala Met Thr
 420 425 430
 Lys Thr Asn Asp Asp Phe Phe Asp Met Met Lys Arg Ser
 435 440 445

<210> 6658

<211> 175

<212> PRT

<213> Enterobacter cloacae

<400> 6658

Val Lys Val Val Ile Met Gly Gln Asp Pro Tyr His Gly Pro Gly Gln
 1 5 10 15
 Ala His Gly Leu Ala Phe Ser Val Arg Pro Gly Val Ala Ile Pro Pro
 20 25 30
 Phe Leu Leu Asn Met Tyr Lys Glu Leu Glu Gly Thr Ile Pro Gly Phe
 35 40 45
 Thr Arg Pro Asn His Gly Tyr Leu Glu Ser Trp Ala Arg Gln Gly Val
 50 55 60
 Leu Leu Leu Asn Thr Val Leu Thr Val Arg Ala Gly Gln Ala His Ser
 65 70 75 80
 His Ala Ser Leu Gly Trp Glu Thr Phe Thr Asp Lys Val Ile Ser Leu
 85 90 95
 Ile Asn Glu His Arg Glu Gly Val Val Phe Leu Leu Trp Gly Ser His
 100 105 110
 Ala Gln Lys Lys Gly Ala Ile Ile Asp Arg Gln Arg His His Val Leu
 115 120 125
 Lys Ala Pro His Pro Ser Pro Leu Ser Ala His Arg Gly Phe Phe Gly
 130 135 140

Ser Asn His Phe Val Leu Thr Asn Glu Trp Leu Glu Lys Arg Gly Glu
 145 150 155 160
 Lys Pro Ile Asp Trp Met Pro Val Leu Pro Ala Glu Ser Glu
 165 170 175

<210> 6659

<211> 295

<212> PRT

<213> Enterobacter cloacae

<400> 6659

Lys Ile Ser Val Trp Arg Gly Arg Leu Thr Thr Pro Phe Pro Phe Gly
 1 5 10 15
 Phe Phe Ser Arg Leu Leu Pro Phe Phe Asp Lys Ile Thr Thr Gln Ile
 20 25 30
 Thr Met Leu Ile Ile Asp Leu Asp Asn Lys Ile His Arg Lys Asn Met
 35 40 45
 Met Lys His Ile Ser Gly Lys Ala Ala Leu Leu Ala Leu Ser Met Ile
 50 55 60
 Ser Ala Thr Ala Tyr Ala Ser His Trp Ser Tyr Gln Gly Glu Gly Ala
 65 70 75 80
 Pro Glu His Trp Gly Glu Leu Asp Glu Ala Tyr Lys Thr Cys Lys Ser
 85 90 95
 Gly Met Tyr Gln Ser Pro Val Asn Ile Asp Asn Thr Val Lys Ala His
 100 105 110
 Ile Ser Pro Leu Glu Thr His Tyr Ile Asp Gly Pro Val Ile Leu Thr
 115 120 125
 Asn Asn Gly His Thr Ile Gln Ala Ser Glu Asn Ala Asp Thr Arg Asp
 130 135 140
 Ser Ile Thr Leu Asp Lys Gln Arg Trp Thr Leu Gln Gln Phe His Phe
 145 150 155 160
 His Ala Pro Ser Glu Asn Thr Val His Gly Lys Lys Tyr Ala Met Glu
 165 170 175
 Met His Leu Val His Lys Asn Ala Asp Gly Glu Leu Thr Val Val Ala
 180 185 190
 Val Met Phe Asp Gln Gly Ala Ala Asn Thr Glu Leu Asp Lys Leu Trp
 195 200 205
 Gly Val Met Pro Gly Gln Val Asp Gln Asn Val Thr Ile Lys Pro Thr
 210 215 220
 Leu Asp Met Asn Lys Leu Leu Pro Ala Asp Lys Thr Tyr Trp Arg Phe
 225 230 235 240
 Ser Gly Ser Leu Thr Thr Pro Pro Cys Ser Glu Gly Val Thr Trp Leu
 245 250 255
 Val Leu Lys His Pro Leu Thr Val Ser Ala Glu Gln Leu Gln Lys Phe
 260 265 270
 Thr His Thr Leu His His Glu Asn Ser Arg Pro Val Gln Pro Leu His
 275 280 285
 Gly Arg Leu Val Val Glu
 290 295

<210> 6660

<211> 383

<212> PRT

<213> Enterobacter cloacae

<400> 6660

Gly Thr Val Met Thr Asn His Phe Arg Cys Leu Pro Leu Ser Gly Phe
 1 5 10 15
 Ile Val Cys Ala Ala Leu Leu Thr Gly Cys Asp Gly Gln Glu Asn Pro
 20 25 30
 Gln Gln His Ala Gln Ala Pro Gln Val Ser Val His Ile Val Lys Ser

```
<210> 6661
<211> 425
<212> PRT
<213> Enterobacter cloacae
```

<220>
<221> UNSURE
<222> (135)

```

<400> 6661
Asp Lys Ile Val Asp Val His Ser Ser Ala Asp Arg Asp Leu Lys His
1             5             10             15
Val Leu Leu Ala Asp Glu Thr Val Cys Ile Gly Pro Ala Pro Ser Val

```

20 25 30
 Lys Ser Tyr Leu Asn Ile Pro Ala Ile Ile Ser Ala Ala Glu Ile Thr
 35 40 45
 Gly Ala Val Ala Ile His Pro Gly Tyr Gly Phe Leu Ser Glu Asn Ala
 50 55 60
 Asn Phe Ala Glu Gln Val Glu Arg Ser Gly Phe Ile Phe Ile Gly Pro
 65 70 75 80
 Lys Ala Asp Thr Ile Arg Leu Met Gly Asp Lys Val Ser Ala Ile Thr
 85 90 95
 Ala Met Lys Lys Ala Gly Val Pro Thr Val Pro Gly Ser Asp Gly Pro
 100 105 110
 Leu Thr Asp Asp Met Asp Ala Asn Arg Ala His Ala Xaa Arg Ile Gly
 115 120 125
 Tyr Pro Val Ile Ile Lys Xaa Ser Gly Arg Arg Gly Gly Arg Gly Met
 130 135 140
 Arg Val Val Arg Ser Asp Ala Glu Leu Ala Gln Ser Ile Ser Met Thr
 145 150 155 160
 Lys Ala Glu Ala Lys Ala Ala Leu Ser Asn Asp Met Val Tyr Met Glu
 165 170 175
 Lys Tyr Leu Glu Asn Pro Arg His Ile Glu Ile Gln Val Leu Ala Asp
 180 185 190
 Gly Gln Gly Asn Ala Ile Tyr Leu Ala Glu Arg Asp Cys Ser Met Gln
 195 200 205
 Arg Arg His Gln Lys Val Val Glu Glu Ala Pro Ala Pro Gly Ile Thr
 210 215 220
 Pro Glu Leu Arg Arg Tyr Ile Gly Glu Arg Cys Ala Lys Ala Cys Val
 225 230 235 240
 Asp Ile Gly Tyr Arg Gly Ala Gly Thr Phe Glu Phe Leu Phe Glu Asn
 245 250 255
 Gly Glu Phe Tyr Phe Ile Glu Met Asn Thr Arg Ile Gln Val Glu His
 260 265 270
 Pro Val Thr Glu Met Ile Thr Gly Val Asp Leu Ile Lys Glu Gln Leu
 275 280 285
 Arg Ile Ala Ala Gly Gln Pro Leu Ser Ile Lys Gln Glu Glu Val Val
 290 295 300
 Val Lys Gly His Ala Val Glu Cys Arg Ile Asn Ala Glu Asp Pro Asn
 305 310 315 320
 Thr Phe Leu Pro Ser Pro Gly Lys Ile Thr Arg Phe His Ala Pro Gly
 325 330 335
 Gly Phe Gly Val Arg Trp Glu Ser His Ile Tyr Ala Gly Tyr Thr Val
 340 345 350
 Pro Pro Tyr Tyr Asp Ser Met Ile Gly Lys Leu Ile Cys Tyr Gly Glu
 355 360 365
 Asn Arg Asp Val Ala Ile Ala Arg Met Lys Asn Ala Leu Gln Glu Leu
 370 375 380
 Ile Ile Asp Gly Ile Lys Thr Asn Val Asp Leu Gln Met Arg Ile Met
 385 390 395 400
 Ser Asp Glu His Phe Gln Asn Gly Gly Thr Asn Ile His Tyr Leu Glu
 405 410 415
 Lys Lys Leu Gly Leu Asn Glu Lys
 420 425

<210> 6662

<211> 97

<212> PRT

<213> Enterobacter cloacae

<400> 6662

Ala Pro Ser Cys Thr Ile Pro Ala Phe Phe Ile His Lys Gly Gln Lys
 1 5 10 15
 Met Asp Lys Arg Phe Val Gln Ala His Lys Glu Ala Arg Trp Ala Leu

		20						25					30				
Trp	Leu	Thr	Leu	Leu	Tyr	Leu	Ala	Ala	Trp	Leu	Val	Thr	Ala	Tyr	Leu		
		35					40					45					
Pro	Asp	Ser	Ala	Ile	Gly	Ile	Thr	Gly	Leu	Pro	His	Trp	Phe	Glu	Met		
	50					55					60						
Ala	Cys	Leu	Leu	Leu	Pro	Leu	Val	Phe	Ile	Leu	Leu	Cys	Trp	Ala	Met		
65					70					75					80		
Val	Lys	Phe	Ile	Tyr	Arg	Asp	Ile	Ser	Leu	Glu	Asp	Asp	Asp	Ala	Ala		
			85						90					95			

<210> 6663

<211> 300

<212> PRT

<213> Enterobacter cloacae

<400> 6663

Gln	Ile	Lys	Ser	Phe	Ala	Met	Pro	Trp	Ile	Gln	Leu	Lys	Leu	Asn	Thr		
1				5					10					15			
Thr	Gly	Ala	Asn	Ala	Glu	Glu	Leu	Ser	Asp	Ala	Leu	Met	Glu	Ala	Gly		
			20					25					30				
Ser	Val	Ser	Ile	Thr	Phe	Gln	Asp	Thr	His	Asp	Thr	Pro	Val	Phe	Glu		
		35				40					45						
Pro	Leu	Pro	Gly	Glu	Thr	Arg	Leu	Trp	Gly	Asp	Thr	Asp	Val	Ile	Gly		
	50					55					60						
Leu	Phe	Asp	Ala	Glu	Thr	Asp	Met	Lys	Glu	Val	Val	Ala	Ile	Leu	Glu		
65				70					75						80		
Asn	His	Pro	Leu	Leu	Gly	Ala	Gly	Phe	Thr	His	Lys	Ile	Glu	Gln	Leu		
			85					90					95				
Glu	Asp	Lys	Asp	Trp	Glu	Arg	Glu	Trp	Met	Asp	Asn	Phe	His	Pro	Met		
			100					105					110				
Gln	Phe	Gly	Gln	Arg	Leu	Trp	Ile	Cys	Pro	Ser	Trp	Arg	Glu	Val	Pro		
		115				120						125					
Asp	Glu	Asn	Ala	Val	Asn	Val	Met	Leu	Asp	Pro	Gly	Leu	Ala	Phe	Gly		
	130					135					140						
Thr	Gly	Thr	His	Pro	Thr	Thr	Ser	Leu	Cys	Leu	Gln	Trp	Leu	Asp	Gly		
145					150					155					160		
Leu	Asp	Leu	Glu	Gly	Lys	Thr	Val	Ile	Asp	Phe	Gly	Cys	Gly	Ser	Gly		
			165						170					175			
Ile	Leu	Ala	Ile	Ala	Ala	Leu	Lys	Leu	Gly	Ala	Ala	Lys	Ala	Ile	Gly		
			180						185					190			
Ile	Asp	Ile	Asp	Pro	Gln	Ala	Ile	Gln	Ala	Ser	Arg	Asp	Asn	Ala	Glu		
	195					200						205					
Arg	Asn	Gly	Val	Ser	Asp	Arg	Leu	Glu	Leu	Tyr	Leu	Pro	Asp	Ala	Gln		
	210					215					220						
Pro	Glu	Ala	Met	Lys	Ala	Asp	Val	Val	Val	Ala	Asn	Ile	Leu	Ala	Gly		
	225				230					235					240		
Pro	Leu	Arg	Glu	Leu	Ala	Pro	Leu	Ile	Ser	Val	Leu	Pro	Val	Glu	Gly		
			245						250					255			
Gly	Leu	Leu	Gly	Leu	Ser	Gly	Ile	Leu	Ala	Ser	Gln	Ala	Asp	Ser	Val		
			260					265					270				
Cys	Glu	Ala	Tyr	Ala	Asp	Leu	Phe	Ala	Leu	Asp	Pro	Val	Val	Glu	Lys		
	275						280					285					
Glu	Glu	Trp	Cys	Arg	Ile	Thr	Gly	Arg	Lys	Lys							
	290					295					300						

<210> 6664

<211> 104

<212> PRT

<213> Enterobacter cloacae

<400> 6664

```

Arg Ala Asp Arg Thr Met Phe Glu Gln Arg Val Asn Ser Asp Val Leu
1      5      10      15
Thr Val Ser Thr Val Asn Ser Gln Asp Gln Val Thr Gln Lys Pro Leu
      20      25      30
Arg Asp Ser Val Lys Gln Ala Leu Lys Asn Tyr Phe Ala Gln Leu Asn
      35      40      45
Gly Gln Asp Val Asn Asp Leu Tyr Glu Leu Val Leu Ala Glu Val Glu
      50      55      60
Gln Pro Leu Leu Asp Met Val Met Gln Tyr Thr Arg Gly Asn Gln Thr
65      70      75      80
Arg Ala Ala Leu Met Met Gly Ile Asn Arg Gly Thr Leu Arg Lys Lys
      85      90      95
Leu Lys Lys Tyr Gly Met Asn
      100

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<210> 6665

<211> 751

<212> PRT

<213> Enterobacter cloacae

<400> 6665

```

Thr Gly Gln Leu Leu Arg Ala Gly Leu Thr Ala Ser Ile Leu Tyr Lys
1      5      10      15
Thr Leu Leu Thr Pro Asn Lys Asn Arg Gly Leu Asn His Phe Ser Ser
      20      25      30
Phe Pro Asp Asp Asp Asn Val Cys Pro Leu Ser Asn Arg Ser Cys Leu
      35      40      45
Thr Ser His Thr Ser Glu Gln Thr Met Leu Val Ser Gln Tyr Asn Gln
      50      55      60
Ile Leu Val Val Ile Ser Phe Val Val Ala Ile Leu Ala Ala Tyr Thr
65      70      75      80
Ala Leu Asn Met Ala Ala Arg Val Ala Gly Ser Gln Gly Val Ala Ala
      85      90      95
Arg Val Trp Leu Ala Gly Gly Gly Val Ser Met Gly Ile Gly Val Trp
      100      105      110
Ala Met His Phe Ile Gly Met Leu Ala Met Asp Leu Ser Met Ser Met
      115      120      125
Ser Tyr Asn Ala Ala Leu Thr Val Leu Ser Met Val Ile Ala Ile Ser
      130      135      140
Ser Ser Met Phe Ala Leu Trp Leu Val Ser Gly Glu Gln Leu Arg Leu
      145      150      155      160
Arg Arg Leu Leu Pro Gly Ala Val Val Met Gly Thr Gly Ile Val Ala
      165      170      175
Met His Tyr Thr Gly Met Ala Ala Leu Glu Val Thr Pro Gly Ile Val
      180      185      190
Trp Asp Lys Thr Trp Val Ala Ile Ser Val Val Ile Ala Leu Ala Ala
      195      200      205
Ser Leu Ala Ala Leu Trp Leu Thr Phe Arg Leu Arg Gln Glu Ala Ala
      210      215      220
Arg Met Ala Leu Met Arg Leu Gly Ala Ala Ile Thr Met Gly Ile Ala
      225      230      235      240
Ile Ala Gly Met His Tyr Ala Gly Met Glu Ala Ala Gln Phe Pro Met
      245      250      255
Ser Thr Met Val His His His Gly Ile Asn Gly Ser Trp Leu Ala Ile
      260      265      270
Leu Val Ser Val Val Ala Leu Ala Ile Leu Gly Ile Thr Leu Leu Val
      275      280      285
Ser Met Phe Asp Ala Arg Leu Gln Ala Arg Thr Ser Leu Leu Ala Ser
      290      295      300

```


Ser Leu Ala Glu Ala Asn Arg Glu Leu Ala Gln Leu Ala Leu His Asp
 305 310 315 320
 Thr Leu Thr Arg Leu Pro Asn Arg Ile Leu Leu Glu Asp Arg Leu Asp
 325 330 335
 Gln Ala Ile Ser Lys Ala Asp Arg Glu Gly Ser Pro Phe Ala Leu Met
 340 345 350
 Phe Met Asp Leu Asp Gly Phe Lys Thr Val Asn Asp Ala Tyr Gly His
 355 360 365
 Asp Val Gly Asp Lys Leu Leu Val Ala Val Thr Gln Arg Leu Leu Leu
 370 375 380
 Gln Leu Lys Gly Gln Tyr Thr Leu Ala Arg Ile Gly Gly Asp Glu Phe
 385 390 395 400
 Val Leu Leu Ala Glu Thr Ala Thr Pro Asp Asp Ala Ala Ser Leu Ala
 405 410 415
 Asn Ser Leu Val Arg Val Ile Asp Ser Pro Phe His Leu Asp Pro Tyr
 420 425 430
 Glu Leu Met Val Thr Leu Ser Ile Gly Ile Ala Leu Tyr Pro His Asp
 435 440 445
 Gly Lys Thr Asp Arg Glu Leu Met Phe Asn Ala Asp Ala Ala Met Tyr
 450 455 460
 His Thr Lys His Met Gly Arg Asn Gly Tyr His Phe Phe Gln Pro Ser
 465 470 475 480
 Met Asn Thr Leu Ala Gln Thr His Leu Gln Leu Met Asn Asp Leu Trp
 485 490 495
 Gln Ala Ile Asp Arg Asp Glu Leu Arg Leu Leu Tyr Gln Pro Lys Phe
 500 505 510
 His Ala Pro Ala Gly Pro Val Ile Gly Phe Glu Ala Leu Leu Arg Trp
 515 520 525
 Gln His Pro Lys Gln Gly Leu Leu Ser Pro Asp Leu Phe Leu Pro Leu
 530 535 540
 Ala Glu Lys Thr Gly Leu Ile Ile Pro Ile Gly Asn Trp Val Ile Asp
 545 550 555 560
 Glu Ala Cys Arg Gln Leu Arg Glu Trp His Leu Gln Gly His Thr Asp
 565 570 575
 Trp Ser Met Ala Val Asn Leu Ser Thr Leu Gln Phe Glu Gln Pro Ser
 580 585 590
 Leu Val Lys Thr Val Leu Asp Cys Leu Thr Arg His Ser Val Pro Pro
 595 600 605
 Gly Met Leu Ile Leu Glu Val Thr Glu Thr Thr Ala Met Ser Asn Pro
 610 615 620
 Asp Glu Ser Val Arg Val Leu Thr Ala Leu Thr Asp Ala Gly Val Lys
 625 630 635 640
 Ala Ser Ile Asp Asp Phe Gly Thr Gly Tyr Ser Ser Leu Leu Tyr Leu
 645 650 655
 Lys Arg Leu Pro Ala Cys Glu Leu Lys Ile Asp Arg Ala Phe Val Lys
 660 665 670
 Glu Leu Ser Gly Glu Ser Glu Asp Ala Thr Ile Val Ser Ala Ile Val
 675 680 685
 Ala Leu Ala Lys Thr Leu Asn Leu Lys Val Val Ala Glu Gly Val Glu
 690 695 700
 Thr Ala Ala Gln Gln Thr Phe Leu Thr Glu Leu Gly Cys Asn Thr Leu
 705 710 715 720
 Gln Gly Tyr Leu Leu Gly Lys Pro Ile Thr Ala Gln Ala Ile Met Glu
 725 730 735
 Gln Cys Gln His Gly Glu Met Ser Pro Arg Ala Gln Ser
 740 745 750

<210> 6666

<211> 496

<212> PRT

<213> Enterobacter cloacae

<400> 6666

Asn	Ser	Ser	Ile	Ala	Ile	Phe	His	Trp	Arg	Thr	Met	Met	Gln	Leu	Glu
1				5					10					15	
Val	Ile	Leu	Pro	Leu	Ile	Ala	Tyr	Leu	Cys	Leu	Val	Phe	Gly	Leu	Ser
			20					25					30		
Val	Tyr	Ala	Met	Arg	Lys	Arg	Ser	Thr	Gly	Thr	Phe	Leu	Asn	Glu	Tyr
		35					40					45			
Phe	Leu	Gly	Ser	Arg	Ser	Met	Gly	Gly	Val	Val	Leu	Ala	Met	Thr	Leu
	50					55					60				
Thr	Ala	Thr	Tyr	Ile	Ser	Ala	Ser	Ser	Phe	Ile	Gly	Gly	Pro	Gly	Ala
65					70					75					80
Ala	Tyr	Lys	Tyr	Gly	Leu	Gly	Trp	Val	Leu	Leu	Ala	Met	Ile	Gln	Leu
				85					90					95	
Pro	Ala	Ile	Trp	Leu	Ser	Leu	Gly	Ile	Leu	Gly	Lys	Lys	Phe	Ala	Ile
			100					105					110		
Leu	Ala	Arg	Arg	Tyr	Asn	Ala	Val	Thr	Leu	Asn	Asp	Met	Leu	Phe	Ala
		115					120					125			
Arg	Tyr	Gln	Ser	Arg	Leu	Leu	Val	Trp	Leu	Ala	Ser	Leu	Ser	Leu	Leu
	130					135						140			
Val	Ala	Phe	Ile	Gly	Ala	Met	Thr	Val	Gln	Phe	Ile	Gly	Gly	Ala	Arg
145					150					155					160
Leu	Leu	Glu	Thr	Ala	Ala	Gly	Ile	Pro	Tyr	Glu	Thr	Gly	Leu	Val	Ile
				165					170					175	
Phe	Gly	Val	Ser	Ile	Ala	Leu	Tyr	Thr	Ala	Phe	Gly	Gly	Phe	Arg	Ala
			180					185					190		
Ser	Val	Leu	Asn	Asp	Thr	Met	Gln	Gly	Met	Val	Met	Leu	Ile	Gly	Thr
		195					200					205			
Leu	Val	Leu	Leu	Val	Gly	Ile	Val	His	Ala	Ala	Gly	Gly	Leu	Ser	His
	210					215						220			
Ala	Val	Glu	Thr	Leu	Glu	Ala	Ile	Asp	Pro	Lys	Leu	Val	Ser	Pro	Gln
225					230					235					240
Gly	Ala	Asp	Asp	Ile	Leu	Ser	Pro	Thr	Phe	Met	Thr	Ser	Phe	Trp	Val
				245					250					255	
Leu	Val	Cys	Phe	Gly	Val	Ile	Gly	Leu	Pro	His	Thr	Ala	Val	Arg	Cys
			260					265					270		
Ile	Ser	Tyr	Lys	Asp	Ser	Lys	Ala	Val	His	Arg	Gly	Ile	Ile	Ile	Gly
		275					280						285		
Thr	Ile	Val	Val	Ala	Ile	Leu	Met	Phe	Gly	Met	His	Leu	Ala	Gly	Ala
	290					295						300			
Leu	Gly	Arg	Ala	Val	Ile	Pro	Asp	Leu	Thr	Val	Pro	Asp	Leu	Val	Ile
305					310					315					320
Pro	Thr	Leu	Met	Val	Lys	Val	Leu	Pro	Pro	Phe	Ala	Ala	Gly	Ile	Phe
				325					330					335	
Leu	Ala	Ala	Pro	Met	Ala	Ala	Ile	Met	Ser	Thr	Ile	Asn	Ala	Gln	Leu
			340					345					350		
Leu	Gln	Ser	Ser	Ala	Thr	Ile	Ile	Lys	Asp	Leu	Tyr	Leu	Asn	Leu	Arg
		355					360					365			
Pro	Glu	Gln	Val	Glu	Asn	Glu	Arg	Arg	Leu	Lys	Arg	Met	Ser	Ala	Val
	370					375					380				
Ile	Thr	Leu	Val	Leu	Gly	Ala	Leu	Leu	Leu	Leu	Ala	Ala	Trp	Arg	Pro
385					390					395					400
Pro	Glu	Met	Ile	Ile	Trp	Leu	Asn	Leu	Leu	Ala	Phe	Gly	Gly	Leu	Glu
				405					410					415	
Ala	Val	Phe	Leu	Trp	Pro	Leu	Val	Leu	Gly	Leu	Tyr	Trp	Glu	Arg	Ala
			420					425					430		
Asn	Ala	Ala	Gly	Ala	Leu	Ser	Gly	Met	Ile	Val	Gly	Gly	Val	Leu	Tyr
		435					440					445			
Ala	Val	Leu	Ala	Thr	Phe	Lys	Ile	Gln	Tyr	Leu	Gly	Phe	His	Pro	Ile
	450					455					460				
Val	Pro	Ser	Leu	Leu	Leu	Ser	Leu	Leu	Ala	Phe	Val	Val	Gly	Asn	Arg

465 470 475 480
 Phe Gly Arg Pro Val Pro Gln Thr Ala Leu Ile Ser Thr Asp Lys
 485 490 495

<210> 6667

<211> 323

<212> PRT

<213> Enterobacter cloacae

<400> 6667

Leu Met Arg Ile Gly His His Gln Leu Arg Asn Arg Leu Ile Ala Ala
 1 5 10 15
 Pro Met Ala Gly Ile Thr Asp Arg Pro Phe Arg Thr Leu Cys Tyr Glu
 20 25 30
 Met Gly Ala Gly Leu Thr Val Ser Glu Met Met Ser Ser Asn Pro Gln
 35 40 45
 Val Trp Glu Ser Asp Lys Ser Arg Leu Arg Met Val His Val Asp Glu
 50 55 60
 Pro Gly Ile Arg Thr Val Gln Ile Ala Gly Ser Val Pro Glu Glu Met
 65 70 75 80
 Ala Asp Ala Ala Arg Ile Asn Val Glu Ser Gly Ala Gln Ile Ile Asp
 85 90 95
 Ile Asn Met Gly Cys Pro Ala Lys Lys Val Asn Arg Lys Leu Ala Gly
 100 105 110
 Ser Ala Leu Leu Gln Tyr Pro Asp Gln Val Lys Ser Ile Leu Thr Ala
 115 120 125
 Val Val Ser Ala Val Asp Val Pro Val Thr Leu Lys Ile Arg Thr Gly
 130 135 140
 Trp Ser Pro Glu His Arg Asn Cys Val Glu Ile Ala Gln Leu Ala Glu
 145 150 155 160
 Asp Cys Gly Ile Gln Ala Leu Thr Ile His Gly Arg Thr Arg Ala Cys
 165 170 175
 Leu Phe Asn Gly Glu Ala Glu Tyr Asp Ser Ile Arg Ala Val Lys Gln
 180 185 190
 Lys Val Ser Ile Pro Val Ile Ala Asn Gly Asp Ile Thr Asp Pro Leu
 195 200 205
 Lys Ala Arg Ala Val Leu Asp Tyr Thr Gly Ala Asp Ala Leu Met Ile
 210 215 220
 Gly Arg Ala Ala Gln Gly Arg Pro Trp Ile Phe Arg Glu Ile Gln His
 225 230 235 240
 Tyr Leu Asp Thr Gly Glu Leu Leu Ala Pro Leu Pro Leu Ala Glu Val
 245 250 255
 Lys Arg Leu Leu Cys Ser His Val Arg Glu Leu His Asp His Tyr Gly
 260 265 270
 Gln Ala Lys Gly Tyr Arg Ile Ala Arg Lys His Val Ser Trp Tyr Leu
 275 280 285
 Gln Glu His Ala Pro Asn Asp Gln Phe Arg Arg Thr Phe Asn Ala Ile
 290 295 300
 Glu Asp Ala Ser Glu Gln Leu Glu Ala Leu Glu Ala Tyr Phe Glu Asn
 305 310 315 320
 Leu Ala

<210> 6668

<211> 78

<212> PRT

<213> Enterobacter cloacae

<220>

<221> UNSURE

<222> (78)

<400> 6668

```

Tyr Arg Arg Asp Ser Ser Gln Leu Arg Asn Asn Asp Met Ala Asn Phe
1          5          10          15
Phe Ile Gln Arg Pro Val Phe Ala Trp Val Leu Ala Ile Ile Leu Met
          20          25          30
Ile Ala Gly Gly Leu Ala Ile Leu Lys Leu Pro Val Ala Gln Tyr Pro
          35          40          45
Thr Ile Ala Pro Pro Ala Val Ala Val Thr Ala Thr Tyr Pro Gly Ala
          50          55          60
Asp Ala Gln Thr Val Gln Asp Thr Val Thr Gln Val Ile Xaa
65          70          75

```

<210> 6669

<211> 218

<212> PRT

<213> Enterobacter cloacae

<400> 6669

```

Gln Val Met Ala Arg Lys Lys Lys Glu Glu Ala Gln Lys Thr Arg Gln
1          5          10          15
Gln Leu Ile Glu Ala Ala Ile Arg Leu Phe Ala Thr Arg Gly Val Ala
          20          25          30
Ser Thr Thr Leu Thr Asp Ile Ala Asp Ala Ala Gln Leu Thr Arg Gly
          35          40          45
Ala Val Tyr Trp His Phe Ser Ser Lys Ala Glu Ile Phe Asn Ala Ile
          50          55          60
Trp Glu Gln Gln Leu Pro Leu Arg Glu Ile Ile Arg Asp Arg Leu Met
65          70          75          80
Leu Ser Glu Asn Asp Asp Pro Leu Leu Met Leu Arg Glu Gln Phe Ile
          85          90          95
Val Ala Leu Gln Tyr Ile Ala Ser Glu Pro Arg Gln Tyr Ala Leu Leu
          100          105          110
Gln Ile Leu Tyr His Lys Cys Glu Phe His Asp Asp Val Ile Ser Glu
          115          120          125
Cys Glu Ile Arg Lys Arg Ile Gly Leu Asn Asp Asp Tyr Leu Arg Lys
          130          135          140
Thr Leu Lys Arg Cys Ile Ala His Asn Ile Ile Ser Ser Gln Thr Asn
145          150          155          160
Ile Glu Leu Ala Leu Ile Val Phe His Ala Phe Phe Ser Gly Val Ile
          165          170          175
Lys Asn Trp Leu Met Asp Asn Thr Ser Phe Asn Leu Tyr Lys Gln Ala
          180          185          190
Pro Ala Leu Val Asp Asn Ile Leu Ala Thr Leu Asn Ile Thr Arg Val
          195          200          205
Ala Pro Val Val Tyr Asp Thr Ala Leu
210          215

```

<210> 6670

<211> 306

<212> PRT

<213> Enterobacter cloacae

<400> 6670

```

Thr Met Val Ala Gln Tyr Tyr Thr Asp Pro Glu Ile Gln Gln Leu Ala
1          5          10          15
Glu Glu Thr Gly Gly Cys Ile Ser Asp Ser Leu Glu Met Ala Arg Phe
          20          25          30
Gly Ala Lys His Pro Ala Ser Thr Leu Leu Val Ala Gly Val Arg Phe
          35          40          45
Met Gly Glu Thr Ala Lys Ile Leu Ser Pro Glu Lys Thr Ile Leu Met

```

50 55 60
 Pro Thr Leu Asn Ala Asp Cys Ser Leu Asp Leu Gly Cys Pro Ile Asp
 65 70 75 80
 Glu Phe Thr Ala Phe Cys Asp Ala His Pro Asp Arg Thr Val Val Val
 85 90 95
 Tyr Ala Asn Thr Ser Ala Ala Val Lys Ala Arg Ala Asp Trp Val Met
 100 105 110
 Thr Ser Ser Ile Ala Val Glu Leu Ile Glu His Leu Asp Ser Leu Gly
 115 120 125
 Glu Lys Ile Ile Trp Ala Pro Asp Arg His Leu Gly Asn Tyr Val Gln
 130 135 140
 Lys Gln Thr Gly Ala Asp Val Leu Cys Trp Gln Gly Ala Cys Ile Val
 145 150 155 160
 His Asp Glu Phe Lys Thr Gln Ala Leu Thr Arg Met Lys Gly Leu Tyr
 165 170 175
 Pro Asp Ala Ala Ile Leu Val His Pro Glu Ser Pro Gln Ser Ile Val
 180 185 190
 Asp Met Ala Asp Ala Val Gly Ser Thr Ser Gln Leu Ile His Ala Ala
 195 200 205
 Lys Thr Leu Pro Asn Lys Gln Leu Ile Val Ala Thr Asp Arg Gly Ile
 210 215 220
 Phe Tyr Lys Met Gln Gln Ala Val Pro Glu Lys Glu Leu Leu Glu Ala
 225 230 235 240
 Pro Thr Ala Gly Glu Gly Ala Ser Cys Arg Ser Cys Ala His Cys Pro
 245 250 255
 Trp Met Ala Met Asn Gly Leu Lys Ala Ile Ser Glu Ala Leu Glu Asn
 260 265 270
 Gly Gly Ala Ala His Glu Ile His Val Asp Ala Ala Leu Arg Glu Gly
 275 280 285
 Ala Leu Ile Pro Leu Asn Arg Met Leu Asp Phe Ala Ala Thr Leu Arg
 290 295 300
 Thr
 305

<210> 6671

<211> 263

<212> PRT

<213> Enterobacter cloacae

<400> 6671

Phe His Leu Thr Val Cys Trp Ile Leu Arg Leu His Tyr Val Leu Asn
 1 5 10 15
 Leu Leu Arg Pro Gly Glu Lys Met Asp Phe Phe Ser Thr Gln Asn Ile
 20 25 30
 Leu Val His Ile Pro Ile Gly Ala Gly Gly Tyr Asp Leu Ser Trp Ile
 35 40 45
 Glu Ala Val Gly Thr Leu Ala Gly Leu Leu Cys Ile Trp Leu Ala Ser
 50 55 60
 Leu Glu Lys Ile Ser Asn Tyr Ala Phe Gly Leu Ile Asn Val Thr Leu
 65 70 75 80
 Phe Ala Ile Ile Phe Phe Gln Ile Gln Leu Tyr Ala Ser Leu Leu Leu
 85 90 95
 Gln Leu Phe Phe Phe Ala Ala Asn Ile Tyr Gly Trp Tyr Ala Trp Ser
 100 105 110
 Arg Gln Asn Ser Gln Gln Glu Ala Glu Leu Gln Ile Arg Trp Leu Pro
 115 120 125
 Leu Pro Lys Ala Ile Ala Trp Phe Ala Ala Cys Val Val Ala Ile Gly
 130 135 140
 Phe Met Thr Val Phe Ile Asp Pro Val Phe Ala Phe Leu Thr Arg Val
 145 150 155 160
 Ala Val Ser Val Met Ser Gly Leu Gly Leu Asn Val Thr Met Pro Glu

				165				170					175				
Leu	Gln	Pro	Asp	Ala	Phe	Pro	Phe	Trp	Asp	Ser	Cys	Met	Met	Val	Leu		
			180					185					190				
Ser	Ile	Ala	Ala	Met	Ile	Leu	Met	Thr	Arg	Lys	Tyr	Val	Glu	Asn	Trp		
		195					200					205					
Leu	Leu	Trp	Val	Val	Ile	Asn	Val	Ile	Ser	Val	Val	Ile	Phe	Ala	Arg		
	210					215					220						
Gln	Gly	Val	Tyr	Ala	Met	Ser	Leu	Glu	Tyr	Met	Leu	Leu	Thr	Phe	Ile		
225					230					235					240		
Ala	Leu	Asn	Gly	Ser	Arg	Met	Trp	Ile	Asn	Ser	Ala	Arg	Glu	Arg	Gly		
				245					250				255				
Ser	Arg	Ala	Leu	Ser	Arg												
			260														

<210> 6672

<211> 359

<212> PRT

<213> Enterobacter cloacae

<400> 6672

Arg	Tyr	Gly	Arg	Ala	Gly	Lys	Lys	Met	Asn	Tyr	Gln	Asn	Asp	Asp	Leu		
1				5					10					15			
Arg	Ile	Lys	Glu	Ile	Asn	Glu	Leu	Leu	Pro	Pro	Val	Ala	Leu	Leu	Glu		
			20				25						30				
Lys	Phe	Pro	Ala	Thr	Glu	Asn	Ala	Ala	Asn	Thr	Val	Ser	His	Ala	Arg		
		35				40					45						
Lys	Ala	Ile	His	Lys	Ile	Leu	Lys	Gly	Ser	Asp	Asp	Arg	Leu	Leu	Val		
	50					55				60							
Val	Ile	Gly	Pro	Cys	Ser	Ile	His	Asp	Pro	Ala	Ala	Lys	Glu	Tyr			
65					70				75					80			
Ala	Ser	Arg	Leu	Leu	Ala	Leu	Arg	Glu	Glu	Leu	Lys	Gly	Glu	Leu	Glu		
				85				90					95				
Ile	Val	Met	Arg	Val	Tyr	Phe	Glu	Lys	Pro	Arg	Thr	Thr	Val	Gly	Trp		
			100				105						110				
Lys	Gly	Leu	Ile	Asn	Asp	Pro	His	Met	Asp	Asn	Ser	Phe	Gln	Ile	Asn		
	115					120						125					
Asp	Gly	Leu	Arg	Ile	Ala	Arg	Lys	Leu	Leu	Leu	Glu	Ile	Asn	Asp	Ser		
	130					135					140						
Gly	Leu	Pro	Ala	Ala	Gly	Glu	Phe	Leu	Asp	Met	Ile	Thr	Pro	Gln	Tyr		
145					150				155						160		
Leu	Ala	Asp	Leu	Met	Ser	Trp	Gly	Ala	Ile	Gly	Ala	Arg	Thr	Thr	Glu		
				165				170						175			
Ser	Gln	Val	His	Arg	Glu	Leu	Ala	Ser	Gly	Leu	Ser	Cys	Pro	Val	Gly		
			180					185					190				
Phe	Lys	Asn	Gly	Thr	Asp	Gly	Thr	Ile	Lys	Val	Ala	Ile	Asp	Ala	Ile		
	195					200						205					
Asn	Ala	Ala	Gly	Ala	Pro	His	Cys	Phe	Leu	Ser	Val	Thr	Lys	Trp	Gly		
	210					215					220						
His	Ser	Ala	Ile	Val	Asn	Thr	Ser	Gly	Asn	Gly	Asp	Cys	His	Ile	Ile		
225					230				235					240			
Leu	Arg	Gly	Gly	Lys	Glu	Pro	Asn	Tyr	Ser	Ala	Lys	His	Val	Ala	Glu		
				245				250						255			
Val	Lys	Ala	Gly	Leu	Glu	Lys	Ala	Gly	Leu	Ala	Pro	Gln	Val	Met	Ile		
		260						265					270				
Asp	Phe	Ser	His	Ala	Asn	Ser	Ser	Lys	Gln	Phe	Lys	Lys	Gln	Met	Glu		
		275					280					285					
Val	Gly	Ala	Asp	Val	Cys	Gln	Gln	Ile	Ala	Ser	Gly	Glu	Arg	Ala	Val		
	290					295					300						
Ile	Gly	Val	Met	Ile	Glu	Ser	His	Leu	Val	Glu	Gly	Asn	Gln	Asn	Leu		
305					310					315				320			
Glu	Gly	Ser	Glu	Pro	Leu	Val	Tyr	Gly	Lys	Ser	Val	Thr	Asp	Ala	Cys		

325 330 335
 Ile Gly Trp Asp Asp Thr Asp Ala Ile Leu Arg Gln Leu Ala Asp Ala
 340 345 350
 Val Lys Ala Arg Arg Gly
 355

<210> 6673
 <211> 371
 <212> PRT
 <213> Enterobacter cloacae

<400> 6673
 Thr Val Arg Ser Gln Asn Gly His Gln Arg Asn Phe Leu Cys Leu Gln
 1 5 10 15
 Ser Ile Thr Arg Ser Arg Thr Val Leu Asn Glu Thr Pro Thr Leu Ala
 20 25 30
 Pro Asp Gly Leu Pro Tyr Arg Leu Leu Thr Leu Arg Asn Ser Ala Gly
 35 40 45
 Met Val Val Thr Leu Met Asp Trp Gly Ala Thr Leu Leu Ser Ala Arg
 50 55 60
 Val Pro Met Pro Asp Gly Ser Val Arg Glu Thr Leu Leu Gly Cys Ala
 65 70 75 80
 Ser Pro Glu Gln Tyr Ile Glu Gln Thr Ala Phe Leu Gly Ala Ser Ile
 85 90 95
 Gly Arg Tyr Ala Asn Arg Ile Ala Arg Ser Arg Phe Thr Leu Asp Gly
 100 105 110
 Val Thr Tyr Ser Leu Leu Ala Ser Gln Gly Glu Asn Gln Leu His Gly
 115 120 125
 Gly Pro Glu Gly Phe Asp Lys Arg Arg Trp Lys Ile Val Gln Gln Asn
 130 135 140
 Asp Ala Glu Val Trp Phe Ser Leu Asp Ser Leu Asp Gly Asp Gln Gly
 145 150 155 160
 Phe Pro Gly Asn Leu Thr Ala Thr Ala Arg Phe Thr Leu Thr Glu Asp
 165 170 175
 Asn Arg Ile Ala Ile Glu Tyr Arg Ala Thr Val Asp Lys Pro Cys Pro
 180 185 190
 Val Asn Leu Thr Asn His Ala Tyr Phe Asn Leu Asp Gly Asn Gln Thr
 195 200 205
 Asp Val Arg Ser His Lys Leu Gln Ile Leu Ser Asp Glu Tyr Leu Pro
 210 215 220
 Val Asp Glu Met Gly Ile Pro Tyr Gln Gly Leu Lys Pro Val Ser Gly
 225 230 235 240
 Asn Ser Phe Asp Phe Arg Gln Pro Lys Thr Ile Ala Gln Asp Phe Leu
 245 250 255
 Ser Asp Asp Asp Gln Arg Lys Val Lys Gly Tyr Asp His Ala Phe Leu
 260 265 270
 Leu Gln Ala Lys Gly Asp Leu Ser Gln Pro Ala Ala Gln Val Trp Ser
 275 280 285
 Ala Asp Glu Lys Leu Gln Met Thr Val Tyr Thr Thr Ala Pro Ala Leu
 290 295 300
 Gln Phe Tyr Ser Gly Asn Tyr Leu Glu Gly Thr Thr Ala Arg Glu His
 305 310 315 320
 Asp Ala Tyr Gly Ala Trp Gln Gly Leu Ala Leu Glu Ser Glu Phe Leu
 325 330 335
 Pro Asp Ser Pro Asn His Pro Glu Trp Pro Gln Pro Asp Cys Val Leu
 340 345 350
 Arg Pro Gly Glu Glu Tyr Val Ser Val Thr Glu Tyr His Phe Ile Pro
 355 360 365
 Arg Ala
 370

<210> 6674

<211> 149

<212> PRT

<213> Enterobacter cloacae

<400> 6674

```

Phe Arg Ser Pro Glu Ser Phe Ala Thr Glu Gln Asp Ala Leu Leu Glu
1          5          10          15
Asn Val Ile Gln Arg Asn Asp Lys Asn Arg Ser Thr Met Met Lys Met
          20          25          30
Thr Lys Leu Thr Thr Leu Phe Leu Thr Ala Thr Leu Thr Leu Ala Ser
          35          40          45
Gly Ser Val Leu Ala Ala Asp Ala Gly Ser Ser Gly Ser Asn Gly Asp
          50          55          60
Ala Asn Ala Ala Ala Glu Ala Gly Gln Val Ala Pro Asp Ala Lys Gln
65          70          75          80
Asn Ile Ala Pro Asn Asn Val Asp Asn Ser Asn Ile Asn Thr Gly Asn
          85          90          95
Thr Asn Thr Gly Gly Thr Asn Thr Gly Thr Met Asn His Glu Gly Met
          100          105          110
Thr Thr Asp Glu Val His Lys Asn Ser Val Cys Lys Asp Gly Lys Cys
          115          120          125
Pro Asp Pro Asn Asp Lys Val Gly Ser Asp Ala Asn Thr Lys Thr Asp
          130          135          140
Gly Thr Thr Gln
145

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<210> 6675

<211> 318

<212> PRT

<213> Enterobacter cloacae

<400> 6675

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Ile Arg Asn Asp Thr Met Ala His Ser His Ser His Ser His Ser Thr
1          5          10          15
Gly Asp Glu Asn Ala Lys Arg Leu Leu Leu Ala Phe Gly Val Thr Ala
          20          25          30
Thr Phe Met Ile Ile Glu Val Thr Gly Gly Leu Ile Ser Gly Ser Leu
          35          40          45
Ala Leu Leu Ala Asp Ala Gly His Met Leu Thr Asp Ala Ala Ala Leu
50          55          60
Leu Phe Ala Leu Leu Ala Val Gln Phe Ala Arg Arg Pro Pro Asn Ala
65          70          75          80
Arg His Thr Phe Gly Trp Leu Arg Leu Thr Thr Leu Ala Ala Phe Val
          85          90          95
Asn Ala Ile Ala Leu Val Val Ile Thr Ile Leu Ile Val Trp Glu Ala
          100          105          110
Phe Gln Arg Phe Arg His Pro Gln Pro Ile Ala Gly Thr Thr Met Met
          115          120          125
Val Ile Ala Ile Ala Gly Leu Val Ala Asn Ile Leu Ala Phe Trp Ile
          130          135          140
Leu His Arg Gly Ser Ser Glu Lys Asn Leu Asn Val Arg Ala Ala Ala
145          150          155          160
Leu His Val Leu Gly Asp Leu Leu Gly Ser Val Gly Ala Ile Val Ala
          165          170          175
Ala Leu Ile Ile Met Gly Thr Gly Trp Thr Pro Ile Asp Pro Ile Leu
          180          185          190
Ser Val Leu Val Ser Cys Leu Val Leu Arg Ser Ala Trp Arg Leu Leu
          195          200          205
Lys Glu Ser Val Asn Glu Leu Leu Glu Gly Ala Pro Thr Ser Leu Asp
210          215          220

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Ile Gly Glu Leu Lys Arg Asn Leu Ser Arg Ser Ile Pro Glu Val Arg
225          230          235          240
Asn Val His His Val His Val Trp Leu Val Gly Glu Lys Pro Leu Met
          245          250          255
Thr Leu His Val Gln Val Ile Pro Pro His Asp His Asp Ala Leu Leu
          260          265          270
Glu Arg Ile Arg His Phe Leu Glu His His Tyr Glu Ile Ala His Ser
          275          280          285
Thr Ile Gln Met Glu Tyr Gln Pro Cys Ser Gly Pro Asp Cys His Leu
          290          295          300
Asn Glu Ala Gln Ser Gly His Ser His Ala His His His
305          310          315

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<210> 6676

<211> 394

<212> PRT

<213> Enterobacter cloacae

<400> 6676

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Arg Arg Pro Leu Pro Arg Ile Arg Ser Leu Lys Met Ser Leu Lys Asp
1          5          10          15
Lys Thr Gln Ser Leu Phe Ala Glu Lys Phe Gly Tyr Pro Ala Thr His
          20          25          30
Val Ile Gln Ala Pro Gly Arg Val Asn Leu Ile Gly Glu His Thr Asp
          35          40          45
Tyr Asn Asp Gly Phe Val Leu Pro Cys Ala Ile Asp Tyr Gln Thr Val
          50          55          60
Ile Ser Cys Ala Lys Arg Asp Asp Arg His Val Arg Val Ile Ala Ala
65          70          75          80
Asp Tyr Gly Asn Glu Ile Asp Glu Phe Ser Leu Asp Ala Pro Ile Val
          85          90          95
Thr His Asp Ser Gln Gln Trp Ser Asn Tyr Val Arg Gly Val Val Lys
          100          105          110
His Leu Gln Lys Arg Asn Lys Asn Phe Gly Gly Ala Asp Leu Val Ile
          115          120          125
Ser Gly Asn Val Pro Gln Gly Ala Gly Leu Ser Ser Ala Ser Leu
          130          135          140
Glu Val Ala Val Gly Thr Val Phe Gln Gln Leu Tyr His Leu Pro Leu
145          150          155          160
Asp Gly Ala Gln Ile Ala Leu Asn Gly Gln Glu Ala Glu Asn Gln Phe
          165          170          175
Val Gly Cys Asn Cys Gly Ile Met Asp Gln Leu Ile Ser Ala Leu Gly
          180          185          190
Lys Lys Glu His Ala Leu Leu Ile Asp Cys Arg Ser Leu Gly Thr Lys
          195          200          205
Ala Val Pro Leu Pro Lys Gly Ala Ala Val Val Ile Ile Asn Ser Asn
          210          215          220
Phe Lys Arg Thr Leu Val Gly Ser Glu Tyr Asn Thr Arg Arg Glu Gln
225          230          235          240
Cys Glu Thr Gly Ala Arg Phe Phe Gln Gln Pro Ala Leu Arg Asp Val
          245          250          255
Ser Leu Asp Glu Phe Asn Lys Val Ala His Glu Leu Asp Pro Val Val
          260          265          270
Thr Lys Arg Val Arg His Ile Leu Thr Glu Asn Ala Arg Thr Val Glu
          275          280          285
Ala Ala Ser Ala Leu Ala Lys Gly Asp Leu Lys Arg Met Gly Glu Leu
          290          295          300
Met Ala Glu Ser His Ala Ser Met Arg Asp Asp Phe Glu Ile Thr Val
305          310          315          320
Pro Gln Ile Asp Thr Leu Val Glu Ile Val Lys Ala Thr Ile Gly Asp
          325          330          335

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Lys Gly Gly Val Arg Met Thr Gly Gly Gly Phe Gly Gly Cys Val Val
 340 345 350
 Ala Leu Val Pro Glu Glu Leu Val Pro Ala Ile Gln Asp Ala Val Ala
 355 360 365
 Lys Gln Tyr Glu Ala Lys Thr Gly Ile Lys Glu Thr Phe Tyr Val Cys
 370 375 380
 Lys Ala Ser Gln Gly Ala Gly Gln Cys
 385 390

<210> 6677

<211> 252

<212> PRT

<213> Enterobacter cloacae

<400> 6677

Glu Met Ala Asn Thr Lys Leu Val Leu Val Arg His Gly Glu Ser Gln
 1 5 10 15
 Trp Asn Asn Glu Asn Arg Phe Thr Gly Trp Tyr Asp Val Asp Leu Ser
 20 25 30
 Glu Lys Gly Val Ser Glu Ala Lys Ala Ala Gly Lys Leu Leu Lys Glu
 35 40 45
 Glu Gly Phe Asn Phe Asp Phe Ala Tyr Thr Ser Val Leu Lys Arg Ala
 50 55 60
 Ile His Thr Leu Trp Asn Ile Leu Asp Glu Leu Asp Gln Ala Trp Leu
 65 70 75 80
 Pro Val Glu Lys Ser Trp Lys Leu Asn Glu Arg His Tyr Gly Ala Leu
 85 90 95
 Gln Gly Leu Asn Lys Ala Glu Thr Ala Glu Lys Tyr Gly Asp Glu Gln
 100 105 110
 Val Lys Gln Trp Arg Arg Gly Phe Ala Val Thr Pro Pro Glu Leu Ser
 115 120 125
 Lys Asp Asp Glu Arg Tyr Pro Gly His Asp Pro Arg Tyr Ala Lys Leu
 130 135 140
 Thr Glu Ala Glu Leu Pro Gln Thr Glu Ser Leu Ala Leu Thr Ile Asp
 145 150 155 160
 Arg Val Val Pro Tyr Trp Asn Glu Thr Ile Leu Pro Arg Leu Lys Ser
 165 170 175
 Gly Glu Arg Val Ile Ile Ala Ala His Gly Asn Ser Leu Arg Ala Leu
 180 185 190
 Val Lys Tyr Leu Asp Asn Met Gly Glu Asp Glu Ile Leu Glu Leu Asn
 195 200 205
 Ile Pro Thr Gly Val Pro Leu Val Tyr Glu Phe Asp Glu Asn Phe Lys
 210 215 220
 Pro Val Lys His Tyr Tyr Leu Gly Asn Ala Asp Glu Ile Ala Ala Lys
 225 230 235 240
 Ala Ala Ala Val Ala Asn Gln Gly Lys Ala Lys
 245 250

<210> 6678

<211> 406

<212> PRT

<213> Enterobacter cloacae

<400> 6678

Arg Ser Glu Gly Ala Ala Leu Arg Phe Ser Asp Asn Leu Gln Gln Tyr
 1 5 10 15
 Ile Ser Ile Ser Leu Ile Tyr Asn Ala Leu Ser Leu Arg Lys Ser Ala
 20 25 30
 Cys Glu Asn Gln Cys Lys Arg Tyr His Tyr Phe Ile Pro Cys His Thr
 35 40 45
 Phe Arg Val Ser Asp Met Leu Trp Leu Ile His Thr Ile Ser Leu Met

50		55		60	
Glu Arg Asn Met Arg Val Leu Val Thr Gly Gly Ser Gly Tyr Ile Gly					
65		70		75	80
Ser His Thr Cys Val Gln Leu Leu Gln Ser Gly His Asp Val Val Ile					
	85		90		95
Leu Asp Asn Leu Cys Asn Ser Lys Arg Ser Val Leu Pro Val Ile Glu					
	100		105		110
Arg Leu Ser Gly Lys Gln Pro Thr Phe Val Glu Gly Asp Ile Arg Asn					
	115		120		125
Glu Ala Leu Met Thr Glu Ile Leu His Asp His Ala Ile Glu Thr Val					
	130		135		140
Ile His Phe Ala Gly Leu Lys Ala Val Gly Glu Ser Val Ala Lys Pro					
145		150		155	160
Leu Glu Tyr Tyr Asp Asn Asn Val Asn Gly Thr Leu Arg Leu Ile Ser					
	165		170		175
Ala Met Arg Ala Ala Asn Val Lys Asn Phe Ile Phe Ser Ser Ser Ala					
	180		185		190
Thr Val Tyr Gly Asp Gln Pro Lys Ile Pro Tyr Val Glu Ser Phe Pro					
	195		200		205
Thr Gly Thr Pro Gln Ser Pro Tyr Gly Lys Ser Lys Leu Met Val Glu					
	210		215		220
Gln Ile Leu Thr Asp Leu Gln Lys Ala Gln Pro Glu Trp Ser Ile Ala					
225		230		235	240
Leu Leu Arg Tyr Phe Asn Pro Val Gly Ala His Pro Ser Gly Asp Met					
	245		250		255
Gly Glu Asp Pro Gln Gly Ile Pro Asn Asn Leu Met Pro Tyr Ile Ala					
	260		265		270
Gln Val Ala Val Gly Arg Arg Asp Ser Leu Ala Ile Phe Gly Asn Asp					
	275		280		285
Tyr Pro Thr Glu Asp Gly Thr Gly Val Arg Asp Tyr Ile His Val Met					
	290		295		300
Asp Leu Ala Asp Gly His Val Ala Ala Met Gln Gln Leu Ala Asp Lys					
305		310		315	320
Pro Gly Val His Ile Tyr Asn Leu Gly Ala Gly Val Gly Ser Ser Val					
	325		330		335
Leu Asp Val Val Asn Ala Phe Ser Lys Ala Cys Gly Lys Pro Val Lys					
	340		345		350
Tyr His Phe Ala Pro Arg Arg Asp Gly Asp Leu Pro Ala Tyr Trp Ala					
	355		360		365
Asp Ala Thr Lys Ala Asp Lys Glu Leu Asn Trp Arg Val Thr Arg Thr					
	370		375		380
Leu Asp Glu Met Ala Gln Asp Thr Trp His Trp Gln Ser Arg His Pro					
385		390		395	400
Gln Gly Tyr Pro Asp					
	405				

<210> 6679

<211> 352

<212> PRT

<213> Enterobacter cloacae

<400> 6679

Gly Phe Val Met Thr Gln Phe Asn Pro Val Asp His Pro His Arg Arg		
1	5	10
Phe Asn Pro Leu Ser Gly Gln Trp Ile Leu Val Ser Pro His Arg Ala		
	20	25
Lys Arg Pro Trp Gln Gly Ala Gln Glu Thr Pro Ala Lys Gln Thr Leu		
	35	40
Pro Gln His Asp Pro Asp Cys Phe Leu Cys Pro Gly Asn Thr Arg Val		
	50	55
Thr Gly Asp Lys Asn Pro Asp Tyr Lys Gly Thr Phe Val Phe Thr Asn		
		60

65				70				75				80			
Asp	Phe	Ala	Ala	Leu	Met	Thr	Asp	Thr	Pro	Asp	Ala	Pro	Glu	Ser	His
				85					90					95	
Asp	Pro	Leu	Met	Arg	Cys	Glu	Ser	Ala	Arg	Gly	Thr	Ser	Arg	Val	Ile
			100					105					110		
Cys	Phe	Ser	Pro	Asp	His	Ser	Lys	Thr	Leu	Pro	Glu	Leu	Ser	Val	Asp
		115					120					125			
Ala	Leu	Lys	Glu	Val	Val	Ser	Thr	Trp	Gln	Val	Gln	Thr	Ala	Glu	Leu
		130					135					140			
Gly	Gln	Ser	Tyr	Pro	Trp	Val	Gln	Val	Phe	Glu	Asn	Lys	Gly	Ala	Ala
145					150					155					160
Met	Gly	Cys	Ser	Asn	Pro	His	Pro	His	Gly	Gln	Ile	Trp	Ala	Asn	Ser
				165					170					175	
Phe	Leu	Pro	Asn	Glu	Ala	Glu	Arg	Glu	Asp	Arg	Leu	Gln	Lys	Ala	Tyr
			180					185					190		
Phe	Ala	Gln	Asn	Gly	Ser	Pro	Met	Leu	Val	Asp	Tyr	Thr	Gln	Arg	Glu
		195					200					205			
Leu	Ala	Asp	Gly	Ser	Arg	Thr	Val	Val	Glu	Thr	Glu	His	Trp	Leu	Ala
210						215					220				
Val	Val	Pro	Tyr	Trp	Ala	Ala	Trp	Pro	Phe	Glu	Thr	Leu	Leu	Leu	Pro
225					230					235					240
Lys	Ala	His	Val	Gln	Arg	Ile	Thr	Glu	Leu	Ser	Asp	Ala	Gln	Arg	Asp
				245					250					255	
Asp	Leu	Ala	Leu	Ala	Leu	Lys	Lys	Leu	Thr	Ser	Arg	Tyr	Asp	Asn	Leu
			260					265					270		
Phe	Gln	Cys	Ser	Phe	Pro	Tyr	Ser	Met	Gly	Trp	His	Gly	Ala	Pro	Phe
		275					280					285			
Asn	Gly	Glu	Glu	Asn	Gln	His	Trp	Gln	Leu	His	Ala	His	Phe	Tyr	Pro
290					295					300					
Pro	Leu	Leu	Arg	Ser	Ala	Thr	Val	Arg	Lys	Phe	Met	Val	Gly	Tyr	Glu
305					310					315					320
Met	Leu	Ala	Glu	Thr	Gln	Arg	Asp	Leu	Thr	Ala	Glu	Gln	Ala	Ala	Glu
			325						330					335	
Arg	Leu	Arg	Ala	Val	Ser	Asp	Val	His	Tyr	Arg	Glu	Ser	Gly	Val	
			340					345					350		

<210> 6680

<211> 232

<212> PRT

<213> Enterobacter cloacae

<400> 6680

Gln	Ser	Arg	Tyr	Ser	Pro	Pro	Lys	Arg	Glu	Thr	Lys	Asp	Asp	Lys	Glu
1				5					10					15	
Ser	Pro	Asp	Asn	Met	Thr	Leu	Lys	His	Ser	Asn	Leu	Leu	His	Leu	Asp
			20					25					30		
Leu	His	Thr	Asn	His	Val	Thr	Met	Thr	Asn	Ile	Arg	Thr	Val	Leu	Gly
		35					40					45			
Ser	Met	Glu	Leu	Asp	Glu	Met	Leu	Ser	Gln	Arg	Asp	Ser	Ile	Asn	Thr
	50					55					60				
Arg	Leu	Leu	His	Ile	Val	Asp	Glu	Ala	Thr	Asn	Pro	Trp	Gly	Ile	Lys
65					70				75					80	
Val	Thr	Arg	Ile	Glu	Ile	Arg	Asp	Val	Arg	Pro	Pro	Ala	Glu	Leu	Ile
				85					90				95		
Ala	Ser	Met	Asn	Ala	Gln	Met	Lys	Ala	Glu	Arg	Thr	Lys	Arg	Ala	Tyr
			100					105					110		
Ile	Leu	Glu	Ala	Glu	Gly	Val	Arg	Gln	Ala	Glu	Ile	Leu	Lys	Ala	Glu
		115					120					125			
Gly	Glu	Lys	Gln	Ser	Gln	Ile	Leu	Lys	Ala	Glu	Gly	Asp	Arg	Gln	Ser
130						135					140				
Ala	Phe	Leu	Gln	Ala	Glu	Ala	Arg	Glu	Arg	Ser	Ala	Glu	Ala	Glu	Ala

145 150 155 160
 Arg Ala Thr Gln Met Val Ser Glu Ala Ile Ala Ala Gly Asp Ile Gln
 165 170 175
 Ala Val Asn Tyr Phe Val Ala Gln Lys Tyr Thr Asp Ala Leu Lys Glu
 180 185 190
 Ile Gly Ser Ala Asn Asn Ser Lys Val Val Met Met Pro Leu Asp Ala
 195 200 205
 Ser Ser Leu Met Gly Ser Ile Ala Gly Ile Ala Glu Leu Ile Lys Asp
 210 215 220
 Gly Gly Asn Glu Arg Lys Lys
 225 230

<210> 6681

<211> 286

<212> PRT

<213> Enterobacter cloacae

<400> 6681

Thr Glu Arg Leu Asn Leu Val Pro Val Arg Ala Ser Met Asn Leu Ser
 1 5 10 15
 Val Tyr Gly Ala Arg Met Gly Leu Phe Asn Arg Ile Lys Thr Ser Phe
 20 25 30
 Arg Ala Leu Phe Pro Arg Arg Tyr Ala Trp Pro Gly Met Asp Ile Ser
 35 40 45
 Leu Pro Gly Gly Gln His Leu His Leu Val Gly Ser Ile His Met Gly
 50 55 60
 Thr Gln Asp Met Ser Pro Leu Pro Ser Gly Leu Ile Lys Leu Leu Lys
 65 70 75 80
 Arg Ala Asp Ala Leu Ile Val Glu Ala Asp Ile Ser Gly His Glu Ser
 85 90 95
 Pro Phe Ala Gly Leu Glu Ser Asp Arg Pro Leu Ala Glu Arg Leu Asn
 100 105 110
 Glu Thr Gln Leu Ala Glu Leu Thr Arg Leu Ala Asp Glu Thr Gly Val
 115 120 125
 Ser Leu Ser Met Leu Asp Thr Leu Pro Leu Trp Gln Ile Ala Met Val
 130 135 140
 Leu Gln Ala Thr Gln Ala Gln Arg Leu Gly Leu Arg Gly Asp Tyr Gly
 145 150 155 160
 Ile Asp Tyr Gln Leu Leu Asn Ala Ala Arg Ala Arg Asn Leu Ser Ile
 165 170 175
 Ile Glu Leu Glu Gly Thr Gly Ser Gln Ile Ala Leu Leu Arg Gln Leu
 180 185 190
 Pro Asp Asp Gly Leu Ile Leu Leu Asp Asp Thr Leu Thr His Trp His
 195 200 205
 Thr Asn Ala Arg Leu Leu Gln Thr Met Ile Gly Trp Trp Leu Asp Ala
 210 215 220
 Pro Pro Ala Asp Gly Lys Leu Ala Leu Pro Ser Thr Phe Ser Glu Ser
 225 230 235 240
 Leu Tyr Asp Val Leu Met Asn Ala Arg Asn Gln Ala Trp Arg Glu Thr
 245 250 255
 Leu Tyr Ala Leu Pro Ala Gly Arg Tyr Val Val Ala Val Gly Ala Leu
 260 265 270
 His Leu Tyr Gly Glu Gly Asn Leu Pro Ser Leu Leu Lys
 275 280 285

<210> 6682

<211> 193

<212> PRT

<213> Enterobacter cloacae

<400> 6682

Pro Ser Leu Pro Ile Leu Leu Arg Lys Met Val Leu Phe Phe Arg Gln
 1 5 10 15
 Thr Ser Gly Val Cys Cys Trp His Glu Ser Ser Val Val Arg Arg Ile
 20 25 30
 Ala Met Thr Pro Ala Val Lys Leu Leu Glu Lys Asn Lys Ile Ser Phe
 35 40 45
 Arg Ile His Thr Tyr Asp His Asp Pro Asn Glu Thr Asn Phe Gly Asp
 50 55 60
 Glu Val Val Arg Lys Leu Gly Leu Asn Ala Asp Gln Val Tyr Lys Thr
 65 70 75 80
 Leu Leu Val Ala Val Asn Gly Asp Met Lys His Leu Ala Val Ala Val
 85 90 95
 Thr Pro Val Ala Gly Gln Leu Asp Leu Lys Lys Val Ala Lys Ala Leu
 100 105 110
 Gly Ala Lys Lys Val Asp Met Ala Asp Pro Met Val Ala Gln Arg Thr
 115 120 125
 Thr Gly Tyr Leu Val Gly Gly Ile Ser Pro Leu Gly Gln Lys Lys Arg
 130 135 140
 Leu Pro Thr Leu Ile Asp Ala Pro Ser Gln Glu Phe Glu Thr Ile Tyr
 145 150 155 160
 Ile Ser Gly Gly Lys Arg Gly Leu Asp Ile Glu Leu Ser Ala Gly Asp
 165 170 175
 Leu Ala Lys Met Leu Asp Ala Lys Phe Ala Asp Ile Ala Arg Arg Asp
 180 185 190

<210> 6683

<211> 880

<212> PRT

<213> Enterobacter cloacae

<400> 6683

Ala Gly Phe Phe Arg Asn Ile Ala Asp Ile His Ile Ser Pro Leu Thr
 1 5 10 15
 Phe Pro Leu Met Glu Gly Leu Thr Phe Ile Thr Val Ser Glu Lys Gln
 20 25 30
 Ser Glu Gly Gln Gln Leu Thr Arg Thr Leu Tyr Gly Ser Phe Val Met
 35 40 45
 Ser His Thr Ile Asp Leu Thr Leu Asp Gly Leu Ser Cys Gly His Cys
 50 55 60
 Val Lys Arg Val Lys Glu Ser Leu Glu Gln Arg Pro Asp Val Glu Ser
 65 70 75 80
 Ala Glu Val Thr Ile Asp His Ala Ala Val Thr Gly Ser Ala Ser Ala
 85 90 95
 Asp Ala Leu Ile Asp Thr Ile Lys Gln Ala Gly Tyr Gly Ala Glu Leu
 100 105 110
 Ser His Pro Lys Ala Lys Pro Leu Ala Glu Ser Ser Ser Pro Ser Glu
 115 120 125
 Ala Leu Thr Ala Ala Thr Pro Glu Leu Pro Val Ala Asp Asp Ile Asp
 130 135 140
 Asp Ser Gln Gln Leu Leu Ile Asn Gly Met Ser Cys Ala Ser Cys Val
 145 150 155 160
 Ser Arg Val Gln Asn Ala Leu Gln Ala Val Pro Gly Val Ala Gln Ala
 165 170 175
 Arg Val Asn Leu Ala Glu Arg Thr Ala Leu Val Met Gly Ser Ala Ser
 180 185 190
 Ala Ala Glu Leu Val Gln Ala Val Glu Lys Ala Gly Tyr Gly Ala Glu
 195 200 205
 Ala Ile Glu Asp Asp Ala Glu Arg Arg Glu Arg Gln Gln Glu Thr Ala
 210 215 220

Val	Ala	Thr	Met	Lys	Arg	Phe	Arg	Trp	Gln	Ala	Ile	Val	Ala	Leu	Leu
225					230					235					240
Val	Gly	Ile	Pro	Val	Met	Val	Trp	Gly	Met	Met	Gly	Asp	Asn	Met	Met
				245					250					255	
Val	Thr	Ala	Asp	Asn	Arg	Thr	Leu	Trp	Leu	Val	Ile	Gly	Leu	Ile	Thr
			260					265					270		
Leu	Ala	Val	Met	Val	Phe	Ala	Gly	Gly	His	Phe	Tyr	Thr	Ser	Ala	Trp
		275					280					285			
Lys	Ser	Leu	Lys	Asn	Arg	Thr	Ala	Thr	Met	Asp	Thr	Leu	Val	Ala	Leu
	290					295					300				
Gly	Thr	Gly	Ala	Ala	Trp	Leu	Tyr	Ser	Met	Ser	Val	Asn	Val	Trp	Pro
305					310					315					320
Gln	Trp	Phe	Pro	Met	Glu	Ala	Arg	His	Leu	Tyr	Tyr	Glu	Ala	Ser	Ala
				325					330					335	
Met	Ile	Ile	Gly	Leu	Ile	Asn	Leu	Gly	His	Met	Leu	Glu	Ala	Arg	Ala
			340					345					350		
Arg	Gln	Arg	Ser	Ser	Lys	Ala	Leu	Glu	Arg	Leu	Leu	Asp	Leu	Thr	Pro
		355					360					365			
Pro	Thr	Ala	Arg	Val	Val	Thr	Asp	Glu	Gly	Glu	Lys	Ser	Val	Pro	Leu
	370					375					380				
Ala	Glu	Val	Gln	Pro	Gly	Met	Thr	Leu	Arg	Leu	Thr	Thr	Gly	Asp	Arg
385					390					395					400
Val	Pro	Val	Asp	Gly	Lys	Ile	Ser	Gln	Gly	Glu	Ala	Trp	Leu	Asp	Glu
				405					410					415	
Ala	Met	Leu	Thr	Gly	Glu	Pro	Ile	Pro	Gln	Gln	Lys	Ser	Asp	Gly	Asp
			420					425					430		
Ala	Val	His	Ala	Gly	Thr	Val	Val	Gln	Asp	Gly	Ser	Val	Leu	Phe	Arg
		435				440						445			
Ala	Ser	Ala	Val	Gly	Ser	His	Thr	Thr	Leu	Ser	Arg	Ile	Ile	Arg	Met
	450					455					460				
Val	Arg	Gln	Ala	Gln	Ser	Lys	Pro	Glu	Ile	Gly	Gln	Leu	Ala	Asp	
465					470				475					480	
Lys	Ile	Ser	Ala	Ile	Phe	Val	Pro	Val	Val	Val	Gly	Ile	Ala	Leu	Leu
				485					490					495	
Ser	Ala	Ala	Ile	Trp	Tyr	Phe	Phe	Gly	Pro	Ala	Pro	Gln	Ile	Val	Tyr
			500					505					510		
Thr	Leu	Val	Ile	Ala	Thr	Thr	Val	Leu	Ile	Ile	Ala	Cys	Pro	Cys	Ala
		515					520					525			
Leu	Gly	Leu	Ala	Thr	Pro	Met	Ser	Ile	Ile	Ser	Gly	Val	Gly	Arg	Ala
	530					535					540				
Ala	Glu	Phe	Gly	Val	Leu	Val	Arg	Asp	Ala	Asp	Ala	Leu	Gln	Arg	Ala
545					550					555					560
Ser	Thr	Leu	Asp	Thr	Leu	Val	Phe	Asp	Lys	Thr	Gly	Thr	Leu	Thr	Glu
				565					570					575	
Gly	Lys	Pro	Gln	Val	Val	Ala	Val	Ser	Thr	Val	Gly	Cys	Thr	Glu	Thr
			580					585					590		
Asp	Ala	Leu	Arg	Leu	Ala	Ala	Ala	Leu	Glu	Gln	Gly	Ser	Ser	His	Pro
	595						600					605			
Leu	Ala	Arg	Ala	Ile	Leu	Glu	Lys	Ala	Gly	Asp	Ala	Arg	Leu	Pro	Gln
	610					615					620				
Val	Ser	Asn	Phe	Arg	Thr	Leu	Arg	Gly	Leu	Gly	Val	Ser	Gly	Glu	Ala
625					630					635					640
Glu	Gly	His	Thr	Leu	Leu	Leu	Gly	Asn	Gln	Ala	Leu	Leu	Thr	Glu	His
				645					650					655	
Gly	Val	Asp	Thr	Ser	Ala	Leu	Asp	Ala	Glu	Leu	Asn	Ala	Gln	Ala	Ser
			660					665					670		
Gln	Gly	Ala	Thr	Pro	Val	Leu	Leu	Ala	Arg	Asp	Gly	Gln	Val	Ala	Ala
			675					680				685			
Leu	Leu	Ala	Val	Arg	Asp	Pro	Leu	Arg	Gln	Asp	Ser	Val	Asp	Ala	Leu
	690					695					700				
Gln	Arg	Leu	His	Arg	Ala	Gly	Tyr	Arg	Leu	Val	Met	Leu	Thr	Gly	Asp

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705              710              715              720
Asn Pro Thr Thr Ala Asn Ala Ile Ala Lys Glu Ala Gly Ile Asp Glu
              725              730              735
Val Ile Ala Gly Val Leu Pro Asp Gly Lys Ala Asp Ala Ile Lys Asn
              740              745              750
Leu Gln Ser Gln Gly Arg Gln Val Ala Met Val Gly Asp Gly Ile Asn
              755              760              765
Asp Ala Pro Ala Leu Ala Gln Ala Asp Val Gly Ile Ala Met Gly Gly
              770              775              780
Gly Ser Asp Val Ala Ile Glu Thr Ala Ala Ile Thr Leu Met Arg His
785              790              795              800
Ser Leu Met Gly Val Ala Asp Ala Leu Ala Ile Ser Lys Ala Thr Leu
              805              810              815
Arg Asn Met Lys Gln Asn Leu Leu Gly Ala Phe Val Tyr Asn Ser Leu
              820              825              830
Gly Ile Pro Ile Ala Ala Gly Ile Leu Trp Pro Leu Thr Gly Thr Leu
              835              840              845
Leu Asn Pro Val Val Ala Gly Ala Ala Met Ala Leu Ser Ser Ile Thr
850              855              860
Val Val Ser Asn Ala Asn Arg Leu Leu Arg Phe Lys Pro Lys Asp
865              870              875              880

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<210> 6684
<211> 152
<212> PRT
<213> Enterobacter cloacae

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<400> 6684
Lys Met Ile Glu Leu Ile Val Ala His Pro His Ala Phe Trp Leu Ser
1              5              10              15
Leu Gly Gly Leu Leu Leu Ala Ala Glu Met Leu Gly Gly Asn Gly Tyr
              20              25              30
Leu Leu Trp Ser Gly Val Ala Ala Val Ile Thr Gly Leu Val Val Trp
              35              40              45
Leu Leu Pro Val Gly Trp Glu Trp Gln Gly Ala Leu Phe Ala Val Leu
              50              55              60
Thr Leu Leu Ala Ala Trp Leu Trp Trp Arg Trp Leu Asn Lys Arg Val
65              70              75              80
Lys Ala Gln Lys Pro Val Asp Ala His Leu Asn Gln Arg Gly Gln Gln
              85              90              95
Ile Val Gly Lys Arg Phe Thr Leu Asp Asn Thr Leu Ile Asn Gly Arg
              100              105              110
Gly His Met Arg Val Gly Asp Ser Ser Trp Pro Val Val Ala Asp Asp
              115              120              125
Asp Leu Ser Ala Gly Thr Arg Val Glu Val Ile Ala Val Glu Gly Ile
              130              135              140
Thr Leu Arg Val Lys Ala Cys
145              150

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<210> 6685
<211> 342
<212> PRT
<213> Enterobacter cloacae

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<220>
<221> UNSURE
<222> (331)

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<400> 6685
Gln Ile Asp Val Val Phe Met Ala Ile Ser Glu Ser Thr Gln Pro Val
1              5              10              15

```


Gln Gly Ala Pro Ala Ser Pro Pro Lys Ser Arg Thr Ser Phe Lys Val
 20 25 30
 Leu Gly Ala Ile Ser Leu Ser His Leu Leu Asn Asp Met Ile Gln Ser
 35 40 45
 Leu Ile Leu Ala Ile Tyr Pro Leu Leu Gln Ser Glu Phe Ser Leu Thr
 50 55 60
 Phe Val Gln Ile Gly Met Ile Thr Leu Thr Phe Gln Leu Ala Ser Ser
 65 70 75 80
 Leu Leu Gln Pro Val Val Gly Tyr Trp Thr Asp Lys Tyr Pro Met Pro
 85 90 95
 Trp Ser Leu Pro Ile Gly Met Cys Phe Thr Leu Ser Gly Leu Val Leu
 100 105 110
 Leu Ala Met Ala Gly Ser Phe Glu Ala Val Leu Val Ala Ala Leu
 115 120 125
 Val Gly Thr Gly Ser Ser Val Phe His Pro Glu Ser Ser Arg Val Ala
 130 135 140
 Arg Met Ala Ser Gly Gly Arg His Gly Leu Ala Gln Ser Leu Phe Gln
 145 150 155 160
 Val Gly Gly Asn Phe Gly Ser Ser Leu Gly Pro Leu Leu Ala Ala Val
 165 170 175
 Ile Ile Ala Pro Tyr Gly Lys Gly Asn Val Ala Trp Phe Val Leu Ala
 180 185 190
 Ala Leu Leu Ala Ile Val Val Leu Ala Gln Ile Ser Arg Trp Tyr Ala
 195 200 205
 Ala Gln His Arg Val Asn Lys Gly Lys Pro Ala Val Lys Ile Thr Asn
 210 215 220
 Pro Leu Pro Arg Asn Lys Val Ile Leu Ala Val Ser Val Leu Leu Val
 225 230 235 240
 Leu Ile Phe Ser Lys Tyr Phe Tyr Met Ala Ser Ile Ser Ser Tyr Tyr
 245 250 255
 Thr Phe Tyr Leu Met Gln Lys Phe Gly Leu Ser Val Gln Asn Ala Gln
 260 265 270
 Phe His Leu Phe Ala Phe Leu Phe Ala Val Ala Ala Gly Thr Val Ile
 275 280 285
 Gly Gly Pro Val Gly Asp Lys Ile Gly Arg Lys Tyr Val Ile Trp Gly
 290 295 300
 Ser Ile Leu Gly Val Ala Pro Phe Thr Leu Val Leu Pro Tyr Ala Thr
 305 310 315 320
 Leu Glu Trp Thr Gly Ile Leu Ser Ser Thr Xaa Ala Asp Gly Thr Tyr
 325 330 335
 Thr Ser Pro Pro Pro Pro
 340

<210> 6686

<211> 566

<212> PRT

<213> Enterobacter cloacae

<400> 6686

Val Thr Val Ile Phe Ala Phe Val Tyr Gly Ser Gly Arg Glu Lys Met
 1 5 10 15
 Lys Leu Met Lys Arg Gly Val Ala Leu Ala Leu Ile Ala Ala Trp Gly
 20 25 30
 Leu Thr Ser Leu Pro Ala Gln Ala Tyr Glu Lys Asp Lys Thr Tyr Lys
 35 40 45
 Ile Thr Ile Leu His Thr Asn Asp His His Gly His Phe Trp Arg Ser
 50 55 60
 Glu Tyr Gly Glu Tyr Gly Leu Ala Ala Gln Lys Thr Leu Val Asp Gly
 65 70 75 80
 Ile Arg Lys Glu Val Ala Ala Gln Gly Gly Ser Val Leu Leu Leu Ser
 85 90 95

Gly Gly Asp Ile Asn Thr Gly Val Pro Glu Ser Asp Leu Gln Asp Ala
 100 105 110
 Glu Pro Asp Phe Arg Gly Met Asn Leu Ile Gly Tyr Asp Ala Met Ala
 115 120 125
 Val Gly Asn His Glu Phe Asp Asn Pro Leu Ser Val Leu Arg Gln Gln
 130 135 140
 Glu Lys Trp Ser Lys Phe Pro Phe Leu Ser Ala Asn Ile Tyr Gln Lys
 145 150 155 160
 Ser Thr Gly Glu Arg Leu Phe Lys Pro Trp Ala Leu Phe Lys Arg Gln
 165 170 175
 Asp Leu Lys Ile Ala Val Ile Gly Leu Thr Thr Asp Asp Thr Ala Lys
 180 185 190
 Ile Gly Asn Pro Glu Phe Phe Thr Asp Ile Glu Phe Arg Lys Pro Ala
 195 200 205
 Asp Glu Ala Lys Leu Val Ile Gln Glu Leu Gln Gln Asn Glu Lys Pro
 210 215 220
 Asp Val Ile Ile Ala Thr Thr His Met Gly His Tyr Asp Asn Gly Gln
 225 230 235 240
 His Gly Ser Asn Ala Pro Gly Asp Val Glu Met Ala Arg Ser Leu Pro
 245 250 255
 Ala Gly Ser Leu Ala Met Ile Val Gly Gly His Ser Gln Asp Pro Val
 260 265 270
 Cys Met Ala Ser Glu Asn Lys Lys Gln Val Asp Tyr Val Pro Gly Thr
 275 280 285
 Pro Cys Ala Pro Asp Arg Gln Asn Gly Ile Trp Ile Val Gln Ala His
 290 295 300
 Glu Trp Gly Lys Tyr Val Gly Arg Ala Asp Phe Glu Phe Arg Asn Gly
 305 310 315 320
 Glu Met Lys Leu Val His Tyr Gln Leu Ile Pro Val Asn Leu Lys Lys
 325 330 335
 Lys Val Thr Tyr Pro Asp Gly Lys Ser Glu Arg Val Leu Tyr Thr Pro
 340 345 350
 Glu Ile Ala Glu Asn Gln Gln Met Leu Ser Leu Leu Thr Pro Phe Gln
 355 360 365
 Ser Lys Gly Lys Ala Gln Leu Asp Val Lys Ile Gly Thr Leu Asn Gly
 370 375 380
 Arg Leu Glu Gly Asp Arg Ser Lys Val Arg Phe Val Gln Thr Asn Met
 385 390 395 400
 Gly Arg Leu Val Leu Ala Ala Gln Met Ala Arg Thr Asn Ala Asp Phe
 405 410 415
 Ala Val Met Ser Gly Gly Gly Ile Arg Asp Ser Ile Glu Gly Gly Asp
 420 425 430
 Ile Thr Tyr Lys Asp Val Leu Lys Val Gln Pro Phe Gly Asn Val Val
 435 440 445
 Val Tyr Ala Asp Met Ser Gly Lys Glu Val Ile Asp Tyr Leu Thr Ala
 450 455 460
 Val Ala Gln Met Lys Pro Asp Ser Gly Ala Tyr Pro Gln Phe Ala Asn
 465 470 475 480
 Val Ser Phe Val Ala Lys Asp Gly Lys Leu Asn Asp Leu Lys Ile Lys
 485 490 495
 Gly Glu Pro Val Asp Thr Ala Lys Thr Tyr Arg Leu Ala Thr Leu Ser
 500 505 510
 Phe Asn Ala Thr Gly Gly Asp Gly Tyr Pro His Ile Asp Asn Lys Pro
 515 520 525
 Gly Tyr Val Asn Thr Gly Phe Ile Asp Ala Glu Val Leu Lys Gln Phe
 530 535 540
 Ile Gln Gln Asn Ser Pro Ile Asp Val Asn Ala Tyr Glu Pro Lys Gly
 545 550 555 560
 Glu Val Ser Trp Gln
 565

<210> 6687
 <211> 148
 <212> PRT
 <213> Enterobacter cloacae

<400> 6687
 Thr Phe His Gln Gly Glu Gly Gln Gly Gly Asn Val Asn Ile Ser Asp
 1 5 10 15
 Val Ala Lys Lys Thr Gly Leu Thr Ser Lys Ala Ile Arg Phe Tyr Glu
 20 25 30
 Glu Lys Gly Leu Val Thr Pro Pro Leu Arg Ser Glu Asn Gly Tyr Arg
 35 40 45
 Ser Tyr Thr Gln Leu His Leu Asp Glu Leu Thr Leu Leu Arg Gln Ala
 50 55 60
 Arg Gln Val Gly Phe Asn Leu Glu Glu Cys Gly Glu Leu Val Asn Leu
 65 70 75 80
 Phe Asn Asp Pro Lys Arg His Ser Ala Asp Val Lys Lys Arg Thr Leu
 85 90 95
 Glu Lys Val Ala Glu Ile Glu Arg His Ile Ile Glu Leu Gln Ala Met
 100 105 110
 Arg Glu Gln Leu Leu Gln Leu Ala Glu Ser Cys Pro Gly Asp Asp Ser
 115 120 125
 Ala Glu Cys Pro Ile Ile Asp Asn Leu Ser Gly Cys Cys His Arg Lys
 130 135 140
 Thr His Ala
 145

<210> 6688
 <211> 69
 <212> PRT
 <213> Enterobacter cloacae

<400> 6688
 Arg Ile Gly Phe Gln Arg Trp Glu Pro Phe Leu Tyr Arg Lys Phe Ile
 1 5 10 15
 Met Arg Thr Ala Tyr Ala Tyr Ile Arg Phe Ser Ser Glu Lys Gln Ser
 20 25 30
 Ala Gly Asp Ser Val Arg Arg Gln Gln Ser Leu Ile Asp Ser Trp Val
 35 40 45
 Lys Asn Asn Pro Asp Tyr Ile Leu Ser Phe Phe Thr Thr Ala Ala Lys
 50 55 60
 Val Thr Leu Leu Val
 65

<210> 6689
 <211> 245
 <212> PRT
 <213> Enterobacter cloacae

<400> 6689
 Cys Thr His His Leu Asn Thr Phe Asp Gly Gly Val Ser Arg Leu His
 1 5 10 15
 Gly Phe Lys Ser Gln Arg Gly Ala Asp Tyr Pro Phe Gln Phe Ala Met
 20 25 30
 Ile Ala Phe Asn His Val Val Pro Val Leu Asn Leu Ser Val Phe Asn
 35 40 45
 Val Arg Arg Ala Pro Ala Phe Ala Phe Glu Gln Ser Lys Arg Ala Thr
 50 55 60
 Ile Gly Gly Arg Phe Ile Arg Val Asp Glu Ser Arg Asp Leu Pro Leu
 65 70 75 80
 Leu His Val Val Glu Asp Phe Thr Gln Lys Pro Val Cys Ser Phe Ala

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<210> 6690
<211> 76
<212> PRT
<213> Enterobacter cloacae
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<210> 6691
<211> 287
<212> PRT
<213> Enterobacter cloacae
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<400> 6691															
Thr	Ile	Lys	Leu	Ser	Ala	Tyr	Ile	Asn	Ser	Asn	Thr	Arg	Gly	Val	Met
1				5					10					15	
Ser	His	Ile	Gln	Arg	Glu	Thr	Ser	Cys	Ser	Arg	Pro	Arg	Leu	Asn	Ser
			20					25					30		
Asn	Met	Asp	Ala	Asp	Leu	Tyr	Gly	Tyr	Lys	Trp	Ala	Arg	Asp	Asn	Val
		35					40					45			
Gly	Gln	Ser	Gly	Ala	Thr	Ile	Tyr	Arg	Leu	Tyr	Gly	Lys	Pro	Asp	Ala
	50					55					60				
Pro	Glu	Leu	Phe	Leu	Lys	His	Gly	Lys	Gly	Ser	Val	Ala	Asn	Asp	Val
65					70					75				80	
Thr	Asp	Glu	Met	Val	Arg	Leu	Asn	Trp	Leu	Thr	Glu	Phe	Met	Pro	Leu
				85					90					95	
Pro	Thr	Ile	Lys	His	Phe	Ile	Arg	Thr	Pro	Asp	Asp	Ala	Trp	Leu	Leu
			100					105					110		
Thr	Thr	Ala	Ile	Pro	Gly	Lys	Thr	Ala	Phe	Gln	Val	Leu	Glu	Glu	Tyr
		115					120					125			

Pro Asp Ser Gly Glu Asn Ile Val Asp Ala Leu Ala Val Phe Leu Arg
 130 135 140
 Arg Leu His Ser Ile Pro Val Cys Asn Cys Pro Phe Asn Ser Asp Arg
 145 150 155 160
 Val Phe Arg Leu Ala Gln Ala Gln Ser Arg Met Asn Asn Gly Leu Val
 165 170 175
 Asp Ala Ser Asp Phe Asp Asp Glu Arg Asn Gly Trp Pro Val Glu Gln
 180 185 190
 Val Trp Lys Glu Met His Lys Leu Leu Pro Phe Ser Pro Asp Ser Val
 195 200 205
 Val Thr His Gly Asp Phe Ser Leu Asp Asn Leu Ile Phe Asp Glu Gly
 210 215 220
 Lys Leu Ile Gly Cys Ile Asp Val Gly Arg Val Gly Ile Ala Asp Arg
 225 230 235 240
 Tyr Gln Asp Leu Ala Ile Leu Trp Asn Cys Leu Gly Glu Phe Ser Pro
 245 250 255
 Ser Leu Gln Lys Arg Leu Phe Gln Lys Tyr Gly Ile Asp Asn Pro Asp
 260 265 270
 Met Asn Lys Leu Gln Phe His Leu Met Leu Asp Glu Phe Phe
 275 280 285

<210> 6692

<211> 262

<212> PRT

<213> Enterobacter cloacae

<400> 6692

Cys Thr His His Leu Asn Thr Phe Asp Gly Gly Val Ser Arg Leu His
 1 5 10 15
 Gly Phe Lys Ser Gln Arg Gly Ala Asp Tyr Pro Phe Gln Phe Ala Met
 20 25 30
 Ile Ala Phe Asn His Val Val Pro Val Leu Asn Leu Ser Val Phe Asn
 35 40 45
 Val Arg Arg Ala Pro Ala Phe Ala Phe Glu Gln Ser Lys Arg Ala Thr
 50 55 60
 Ile Gly Gly Arg Phe Ile Arg Val Asp Glu Ser Arg Asp Leu Pro Leu
 65 70 75 80
 Leu His Val Val Glu Asp Phe Thr Gln Lys Pro Val Cys Ser Phe Ala
 85 90 95
 Val Thr Thr Gly Gly Glu Ile Lys Ile Asp Ser Ala Ala Pro Ala Val
 100 105 110
 Asp Gly Pro Val Gln Ile Arg Pro Ala Ala Ile Asp Leu His Val Gly
 115 120 125
 Phe Ile His Val Pro Arg Ala Lys Ile Gly Arg Val Thr Pro Val Pro
 130 135 140
 Ala Gln Pro Phe Phe His Phe Arg Arg Ile Thr Leu Asn Pro Ala Val
 145 150 155 160
 Asn Arg Gly Val Ile Asp Ile His Ser Ala Phe Ser Gln His Leu Leu
 165 170 175
 Gln Leu Thr Val Thr Asp Ala Val Phe Ala Val Pro Ala Tyr Gly Pro
 180 185 190
 Gln Asn Asp Val Thr Leu Lys Met Pro Ala Phe Glu Trp Val His Val
 195 200 205
 Gln Leu His Gln Gln Lys Gly Met Ile Ser Leu Ser Pro Pro Thr Ile
 210 215 220
 Cys Asn Ser Ala Ser Thr Leu Ala Thr Gly Leu Arg Val Gly Asp Leu
 225 230 235 240
 Gly Gly Ser Val Leu Ala Phe Glu Val Gly Ala Lys Glu Arg Met Ala
 245 250 255
 Leu Arg Ala Thr His
 260

<210> 6693
 <211> 85
 <212> PRT
 <213> Enterobacter cloacae

<400> 6693
 Val Arg Asn Val Val Gln Arg Gln Val Ser Ala Asp Asp Phe Met Cys
 1 5 10 15
 Phe Thr Val Asn Gly Glu Met Gln Leu Thr Pro Asp Thr Ala Ala Phe
 20 25 30
 Leu Ala Met Leu Phe Asp Phe Pro Leu Ala Phe Thr Glu Asp Leu Gln
 35 40 45
 Pro Gly Gly Ile Asn Tyr Gln Val Cys Asp Phe Thr Pro Gly Gly Arg
 50 55 60
 Phe Glu Thr Asp Ile Asn Arg Leu Cys Pro Pro Ala Asp Thr Ala Val
 65 70 75 80
 Ile Arg Ala Ala
 85

<210> 6694
 <211> 555
 <212> PRT
 <213> Enterobacter cloacae

<400> 6694
 Leu Ser Ser Met Phe Leu Leu Val Tyr Tyr Phe Pro Glu Val Leu Met
 1 5 10 15
 Pro Val Leu Phe Arg Val Lys Val Ile Pro Leu Val Leu Leu Ala
 20 25 30
 Met Ile Phe Ala Phe Leu Leu Asn Trp Pro Ile Leu Leu His Phe Tyr
 35 40 45
 Glu Ile Leu Ser His Leu Glu His Val Lys Ile Gly Phe Val Ile Ser
 50 55 60
 Ile Pro Phe Val Leu Val Ala Ala Leu Asn Val Val Phe Met Pro Phe
 65 70 75 80
 Ser Val Arg Phe Leu Leu Lys Pro Phe Phe Ala Leu Leu Phe Ile Thr
 85 90 95
 Gly Ser Leu Val Ser Tyr Ser Thr Leu Lys Tyr Lys Leu Met Phe Asp
 100 105 110
 Gln Thr Met Ile Gln Asn Ile Ile Glu Thr Asn Pro Gln Glu Ala His
 115 120 125
 Ser Tyr Leu Asn Gly Ser Ile Ile Ile Trp Phe Val Phe Thr Gly Ile
 130 135 140
 Leu Pro Ala Ile Leu Leu Phe Ser Ile Lys Ile Gln Tyr Pro Glu Lys
 145 150 155 160
 Trp Tyr Lys Gly Ile Ala Tyr Arg Leu Leu Ser Val Leu Ala Ser Leu
 165 170 175
 Ser Leu Ile Ala Gly Val Ala Ala Leu Tyr Tyr Gln Asp Tyr Ala Ser
 180 185 190
 Val Gly Arg Asn Asn Ser Thr Leu Asn Lys Glu Ile Ile Pro Ala Asn
 195 200 205
 Tyr Ala Tyr Ser Thr Phe Gln Tyr Val Lys Asp Thr Tyr Phe Thr Thr
 210 215 220
 Lys Val Pro Phe Gln Thr Leu Gly Asn Asp Ala Lys Arg Val Val Ala
 225 230 235 240
 His Glu Lys Pro Thr Leu Met Phe Leu Val Ile Gly Glu Thr Ala Arg
 245 250 255
 Ser Gln Asn Phe Ser Met Asn Gly Tyr Ser Arg Asp Thr Asn Ala Phe
 260 265 270
 Thr Ser Lys Ser Gly Gly Val Ile Ser Phe Lys Asn Met His Ser Cys

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<210> 6695
<211> 246
<212> PRT
<213> Enterobacter cloacae
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Thr	Tyr	His	Pro	Leu	Leu	Leu	Met	Glu	Leu	His	Met	Asn	Pro	Phe	Lys
1				5					10					15	
Gly	Arg	His	Phe	Gln	Arg	Asp	Ile	Ile	Leu	Trp	Ala	Val	Arg	Trp	Tyr
			20					25					30		
Cys	Lys	Tyr	Gly	Ile	Ser	Tyr	Arg	Glu	Leu	Gln	Glu	Met	Leu	Ala	Glu
		35				40					45				
Arg	Gly	Val	Asn	Val	Asp	His	Ser	Thr	Ile	Tyr	Arg	Trp	Val	Gln	Arg
	50					55					60				
Tyr	Ala	Pro	Glu	Met	Glu	Lys	Arg	Leu	Arg	Trp	Tyr	Trp	Arg	Asn	Pro
65					70					75					80
Ser	Asp	Leu	Cys	Pro	Trp	His	Met	Asp	Glu	Thr	Tyr	Val	Lys	Val	Asn
				85					90					95	
Gly	Arg	Trp	Ala	Tyr	Leu	Tyr	Arg	Ala	Val	Asp	Ser	Arg	Gly	Arg	Thr
			100					105					110		
Val	Asp	Phe	Tyr	Leu	Ser	Ser	Arg	Arg	Asn	Ser	Lys	Ala	Ala	Tyr	Arg
		115					120					125			
Phe	Leu	Gly	Lys	Ile	Leu	Asn	Val	Lys	Lys	Trp	Gln	Ile	Pro	Arg	
	130					135				140					
Phe	Ile	Asn	Thr	Asp	Lys	Ala	Pro	Ala	Tyr	Gly	Arg	Ala	Leu	Ala	Leu

145 150 155 160
 Leu Lys Arg Glu Gly Arg Cys Pro Ser Asp Val Glu His Arg Gln Ile
 165 170 175
 Lys Tyr Arg Asn Asn Val Ile Glu Cys Asp His Gly Lys Leu Lys Arg
 180 185 190
 Ile Ile Gly Ala Thr Leu Gly Phe Lys Ser Met Lys Thr Ala Tyr Ala
 195 200 205
 Thr Ile Lys Gly Ile Glu Val Met Arg Ala Leu Arg Lys Gly Gln Ala
 210 215 220
 Ser Ala Phe Tyr Tyr Gly Asp Pro Leu Gly Glu Met Arg Leu Val Ser
 225 230 235 240
 Arg Val Phe Glu Met
 245

<210> 6696

<211> 273

<212> PRT

<213> Enterobacter cloacae

<400> 6696

Thr Trp Tyr Glu Ser Ala Ala Leu Ser Ser Arg Gly Arg Pro Gln Arg
 1 5 10 15
 Tyr Ser Asp Leu Ala Ile Thr Thr Val Leu Val Ile Lys Arg Val Phe
 20 25 30
 Arg Leu Thr Leu Arg Ala Ala Gln Gly Phe Ile Asp Ser Ile Phe Ser
 35 40 45
 Leu Met Asn Val Pro Leu Arg Cys Pro Asp Tyr Ser Cys Val Ser Arg
 50 55 60
 Arg Ala Lys Ser Val Asn Val Ser Phe Lys Thr Pro Thr Arg Gly Glu
 65 70 75 80
 Ile Ala His Leu Val Ile Asp Ser Thr Gly Leu Lys Val Phe Gly Glu
 85 90 95
 Gly Glu Trp Lys Val Lys Lys His Gly Gln Glu Arg Arg Arg Ile Trp
 100 105 110
 Arg Lys Leu His Leu Ala Val Asp Ser Lys Thr His Glu Ile Ile Cys
 115 120 125
 Ala Asp Leu Ser Leu Asn Asn Val Thr Asp Ser Glu Ala Phe Pro Gly
 130 135 140
 Leu Ile Arg Gln Thr His Arg Lys Ile Arg Ser Ala Ala Ala Asp Gly
 145 150 155 160
 Ala Tyr Asp Thr Arg Leu Cys His Asp Glu Leu Arg His Lys Lys Ile
 165 170 175
 Ser Ala Leu Ile Pro Pro Arg Lys Gly Ala Gly Tyr Trp Pro Gly Glu
 180 185 190
 Tyr Ala Asp Arg Asn Arg Ala Val Ala Asn Gln Arg Met Thr Gly Ser
 195 200 205
 Asn Ala Arg Trp Lys Trp Thr Thr Asp Tyr Asn Arg Arg Ser Ile Ala
 210 215 220
 Glu Thr Ala Met Tyr Arg Val Lys Gln Leu Phe Gly Gly Ser Leu Thr
 225 230 235 240
 Leu Arg Asp Tyr Asp Gly Gln Val Ala Glu Ala Met Ala Leu Val Arg
 245 250 255
 Ala Leu Asn Lys Met Thr Lys Ala Gly Met Pro Glu Ser Val Arg Ile
 260 265 270
 Ala

<210> 6697

<211> 246

<212> PRT

<213> Enterobacter cloacae

<400> 6697

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Thr Tyr His Pro Leu Leu Leu Met Glu Leu His Met Asn Pro Phe Lys
1          5          10          15
Gly Arg His Phe Gln Arg Asp Ile Ile Leu Trp Ala Val Arg Trp Tyr
20          25          30
Cys Lys Tyr Gly Ile Ser Tyr Arg Glu Leu Gln Glu Met Leu Ala Glu
35          40          45
Arg Gly Val Asn Val Asp His Ser Thr Ile Tyr Arg Trp Val Gln Arg
50          55          60
Tyr Ala Pro Glu Met Glu Lys Arg Leu Arg Trp Tyr Trp Arg Asn Pro
65          70          75          80
Ser Asp Leu Cys Pro Trp His Met Asp Glu Thr Tyr Val Lys Val Asn
85          90          95
Gly Arg Trp Ala Tyr Leu Tyr Arg Ala Val Asp Ser Arg Gly Arg Thr
100         105         110
Val Asp Phe Tyr Leu Ser Ser Arg Arg Asn Ser Lys Ala Ala Tyr Arg
115         120         125
Phe Leu Gly Lys Ile Leu Asn Asn Val Lys Lys Trp Gln Ile Pro Arg
130         135         140
Phe Ile Asn Thr Asp Lys Ala Pro Ala Tyr Gly Arg Ala Leu Ala Leu
145         150         155         160
Leu Lys Arg Glu Gly Arg Cys Pro Ser Asp Val Glu His Arg Gln Ile
165         170         175
Lys Tyr Arg Asn Asn Val Ile Glu Cys Asp His Gly Lys Leu Lys Arg
180         185         190
Ile Ile Gly Ala Thr Leu Gly Phe Lys Ser Met Lys Thr Ala Tyr Ala
195         200         205
Thr Ile Lys Gly Ile Glu Val Met Arg Ala Leu Arg Lys Gly Gln Ala
210         215         220
Ser Ala Phe Tyr Tyr Gly Asp Pro Leu Gly Glu Met Arg Leu Val Ser
225         230         235         240
Arg Val Phe Glu Met
245

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<210> 6698

<211> 333

<212> PRT

<213> Enterobacter cloacae

<400> 6698

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Phe Ser Val Leu Val Ser Val Gly Arg Ile Leu Gly Gly Gly Glu Val
1          5          10          15
Ala Ser Ala Asp Gly Met Arg Phe Val Thr Pro Val Lys Thr Val Asn
20          25          30
Ser Gly Pro Asn Arg Lys Tyr Phe Gly Ser Gly Arg Gly Ile Thr Trp
35          40          45
Tyr Asn Phe Val Ser Asp Gln Tyr Ser Gly Phe His Gly Ile Val Ile
50          55          60
Pro Gly Thr Leu Arg Asp Ser Ile Phe Val Leu Glu Gly Leu Leu Glu
65          70          75          80
Gln Gln Thr Gly Leu Asn Pro Val Glu Ile Met Thr Asp Thr Ala Gly
85          90          95
Thr Ser Asp Ile Ile Phe Gly Leu Phe Trp Leu Leu Gly Tyr Gln Phe
100         105         110
Ser Pro Arg Leu Ala Asp Ala Gly Glu Ala Val Phe Trp Arg Ala Asp
115         120         125
Lys Ala Ala Asn Tyr Gly Ala Leu Asp Lys Leu Ala Arg Gly Cys Val
130         135         140
Asp Leu Ser Lys Ile Glu Ser His Trp Asp Glu Met Met Arg Val Ala
145         150         155         160

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Gly Ser Leu Lys Leu Gly Thr Ile His Ala Ser Glu Leu Ile Arg Ser
 165 170 175
 Leu Leu Arg Ser Thr Arg Pro Ser Gly Leu Ala Gln Ala Ile Met Glu
 180 185 190
 Val Gly Arg Val Asn Lys Thr Leu Tyr Leu Leu Asn Tyr Ile Asp Asp
 195 200 205
 Glu Asp Tyr Arg Arg Arg Ile Leu Thr Gln Leu Asn Arg Gly Glu Gly
 210 215 220
 Arg His Ala Val Ala Arg Ala Ile Cys Tyr Gly Gln Arg Gly Glu Ile
 225 230 235 240
 Arg Lys Arg Tyr Arg Glu Gly Gln Glu Asp Gln Leu Gly Ala Leu Gly
 245 250 255
 Leu Val Thr Asn Ala Val Val Leu Trp Asn Thr Leu Tyr Met Gln Glu
 260 265 270
 Ala Leu Ser His Leu Arg Ser Ile Gly Glu Gly Pro Glu Asp Glu His
 275 280 285
 Ile Ala Arg Leu Ser Pro Leu Met His Gly His Ile Asn Met Leu Gly
 290 295 300
 His Tyr Thr Phe Thr Leu Pro Glu Asp Ile Met Lys Gly Glu Leu Arg
 305 310 315 320
 Pro Leu Asn Leu Asn Leu Asn Asn Glu Leu Ser Pro
 325 330

<210> 6699

<211> 716

<212> PRT

<213> Enterobacter cloacae

<400> 6699

His Ser Val Pro Phe Trp Val Val Ser Lys Leu Ile Thr Phe Glu Thr
 1 5 10 15
 Val Lys Lys Arg Thr Glu His Pro Phe Thr Lys Gly Cys Val Met Ala
 20 25 30
 Ala Asp Phe Leu Thr Asp Lys Gln Thr Gln Asn Tyr Gly Arg Tyr Ala
 35 40 45
 Ala Glu Pro Asn Glu Ile Gln Leu Ala Arg Tyr Phe His Leu Asp Glu
 50 55 60
 Arg Asp Leu Thr Phe Ile Asn Leu Arg Arg Gly Arg His Asn Arg Leu
 65 70 75 80
 Gly Ile Ala Leu Gln Leu Thr Thr Ala Arg Phe Leu Gly Thr Phe Leu
 85 90 95
 Ser Asp Leu Met Gln Ile Pro Pro Gly Val Gln Phe Tyr Val Ala Arg
 100 105 110
 Gln Leu Asn Ile Arg Tyr Pro Glu Ile Ile Ser Arg Tyr Ala Gln Arg
 115 120 125
 Glu Asn Thr Arg Trp Glu His His Gly Leu Ile Arg Gln His Tyr Ser
 130 135 140
 Tyr His Asp Phe Gly Asp Phe Pro Trp Ser Phe Arg Leu Lys Arg Leu
 145 150 155 160
 Leu Tyr Thr Arg Ala Trp Leu Ser Asn Glu Arg Pro Gly Leu Met Phe
 165 170 175
 Asp Phe Ala Thr Ala Trp Leu Leu Gln Asn Lys Val Leu Leu Pro Ala
 180 185 190
 Ala Ser Thr Leu Thr Arg Val Ile Gly Glu Ile Arg Glu Arg Ala Thr
 195 200 205
 Arg Arg Leu Trp Arg Lys Leu Ala Ala Leu Pro Asn Arg Trp Gln Thr
 210 215 220
 Ala Gln Leu Ala Gly Leu Leu Glu Ile Pro Glu Gly Gln Arg Leu Ser
 225 230 235 240
 Val Met Glu His Leu Lys Arg Gly Pro Val Thr Ile Ser Gly Pro Ala
 245 250 255

Phe Thr Glu Ala Leu Glu Arg Tyr Thr Arg Leu Arg Ser Leu Glu Phe
 260 265 270
 Ser Cys Leu Asn Phe Thr Gly Leu Pro Ala Ile Gln Leu Arg Asn Leu
 275 280 285
 Ala Arg Tyr Ala Gly Met Ala Ser Val Lys Tyr Ile Ser Arg Met Pro
 290 295 300
 Glu Glu Arg Arg Leu Ala Ile Leu Thr Ala Phe Val Lys Ala Gln Glu
 305 310 315 320
 Ile Ser Ala Leu Asp Glu Ala Val Asp Val Leu Asp Met Leu Ile Leu
 325 330 335
 Asn Ile Thr Arg Glu Ala Lys Lys Thr Gly Gln Lys Lys Arg Leu Arg
 340 345 350
 Thr Leu Lys Asp Leu Asp Arg Ala Ala Leu Leu Leu Ala Arg Ala Cys
 355 360 365
 Ala Leu Leu Leu Asp Glu Asp Thr Ala Asp Asp Leu Leu Arg Lys Thr
 370 375 380
 Ile Phe Ser Ser Val Ser Val Ala Arg Leu Ala Glu Ser Val Glu Lys
 385 390 395 400
 Val Asn Glu Leu Ala Arg Pro Gln Asp Thr Asn Phe Gln Asp Glu Met
 405 410 415
 Val Glu Gln Tyr Gly Arg Val Arg Arg Phe Leu Pro Ala Leu Leu Arg
 420 425 430
 Asp Leu His Phe Arg Ala Ala Pro Asp Gly Glu His Thr Leu Ala Ala
 435 440 445
 Ile His Tyr Leu Ala Glu Leu Asn Gly Ser Lys Lys Arg Ile Leu Asp
 450 455 460
 Asp Ala Pro Glu His Ile Ile Ser Gly Pro Trp Lys Arg Leu Val Tyr
 465 470 475 480
 Asp Ala Asp Gly Arg Ile Gln Arg Ala Gly Tyr Ser Leu Cys Leu Leu
 485 490 495
 Glu Arg Leu Gln Asp Ala Leu Arg Arg Arg Asp Ile Trp Leu Glu Asn
 500 505 510
 Ser Asp Arg Trp Gly Asp Pro Arg Gln Lys Leu Leu Gln Gly Glu Glu
 515 520 525
 Trp Gln Ala Gln Arg Val Pro Val Cys Arg Ala Leu Gly His Pro Thr
 530 535 540
 Asn Gly Ser Lys Ala Ser Glu Gln Leu Ala Ala Gln Leu Asp Glu Thr
 545 550 555 560
 Trp Lys Thr Val Ala Ser Arg Phe Asp Arg Asn Thr Ala Val Asp Ile
 565 570 575
 Cys Asn Glu Gly Lys His Pro Ser Leu Thr Ile Ser Ser Leu Asp Lys
 580 585 590
 Leu Asp Glu Pro Pro Ala Leu Ile Gln Leu Ser Ser Arg Val Arg Gln
 595 600 605
 Leu Leu Pro Pro Val Asp Leu Thr Glu Leu Leu Leu Glu Ile Asp Ala
 610 615 620
 Arg Thr Gly Phe Thr Arg Glu Phe Ser His Val Ser Glu Ser Gly Ala
 625 630 635 640
 Arg Ala Gln Asp Leu His Ile Ser Leu Cys Ala Val Met Leu Ala Glu
 645 650 655
 Ala Cys Asn Ile Gly His Glu Pro Leu Ile Lys His Asn Ile Pro Ala
 660 665 670
 Leu Thr Arg His Arg Leu Ser Trp Val Lys Gln Asn Tyr Ile Arg Ala
 675 680 685
 Glu Thr Leu Val Ser Ala Asn Ala Arg Leu Val Asp Phe Gln Ser Ser
 690 695 700
 Leu Ala Leu Ala Gly Tyr Trp Gly Ala Gly Arg
 705 710 715

<210> 6700

<211> 197

<212> PRT

<213> Enterobacter cloacae

<400> 6700

Ala	Glu	Gly	Ile	Thr	Met	Gln	Arg	Leu	Phe	Pro	Ala	Leu	Trp	Val	Val
1				5					10					15	
Leu	Phe	Leu	Val	Val	Ser	Pro	Leu	His	Ala	Glu	Pro	Lys	Val	Tyr	Gly
			20					25					30		
Glu	Gln	Arg	Ile	His	Arg	Trp	Trp	Asp	Ala	Val	Thr	Asp	Asp	Ile	Ala
		35					40					45			
Gln	Thr	Trp	Glu	Gln	Pro	Asp	Arg	Tyr	Asp	Leu	Tyr	Leu	Pro	Phe	Leu
	50					55					60				
Ser	Trp	His	Ala	Arg	Phe	Met	Tyr	Asp	Lys	Glu	Lys	Thr	Asp	Asn	Tyr
65					70					75				80	
Asn	Glu	Met	Pro	Trp	Gly	Gly	Gly	Leu	Gly	Val	Ser	Arg	Tyr	Asn	Asp
			85					90						95	
Glu	Gly	Asn	Trp	Ser	Ala	Leu	Phe	Ala	Met	Met	Phe	Lys	Asp	Ser	His
			100					105					110		
Asn	Glu	Trp	Gln	Pro	Ala	Met	Gly	Tyr	Gly	Trp	Glu	Lys	Gly	Trp	Phe
		115					120					125			
Leu	Asp	Asn	Ala	Lys	Asp	Phe	Arg	Leu	Gly	Leu	Gly	Ala	Ala	Ala	Gly
	130						135				140				
Ile	Thr	Ala	Arg	Asp	Asp	Phe	Ala	Asn	Tyr	Val	Pro	Leu	Pro	Phe	Ile
145					150					155					160
Phe	Pro	Leu	Phe	Ser	Ala	Gly	Tyr	Lys	Arg	Val	Thr	Val	Gln	Phe	Thr
				165					170					175	
Tyr	Ile	Pro	Gly	Thr	Tyr	Asn	Asn	Gly	Asn	Val	Leu	Phe	Ala	Trp	Leu
			180					185					190		
Arg	Leu	Gly	Phe												
			195												

<210> 6701

<211> 905

<212> PRT

<213> Enterobacter cloacae

<400> 6701

Lys	Glu	Pro	Glu	Glu	Gly	Thr	Met	Ile	Thr	Glu	Lys	Pro	His	Arg	Pro
1				5					10					15	
Tyr	Tyr	Gln	Gln	Thr	Val	Asp	Glu	Thr	Leu	Thr	Asn	Ile	Gln	Ser	Ser
			20					25					30		
Leu	Asp	Gly	Leu	Ser	Ser	Thr	Glu	Ala	Thr	Ala	Arg	Leu	Glu	Lys	Tyr
		35					40					45			
Gly	Glu	Asn	Ala	Leu	Pro	Gln	Lys	Pro	Gly	Lys	Pro	Gly	Trp	Leu	Arg
	50					55					60				
Phe	Leu	Ala	His	Phe	Asn	Asp	Val	Leu	Ile	Tyr	Val	Leu	Leu	Ala	Ala
65					70					75				80	
Ala	Leu	Leu	Lys	Leu	Ile	Met	Gly	His	Trp	Val	Asp	Met	Phe	Val	Ile
			85					90						95	
Leu	Gly	Val	Ala	Ile	Ile	Asn	Ala	Leu	Ile	Gly	His	Ile	Gln	Glu	Ser
			100					105					110		
Asn	Ala	Glu	Lys	Ser	Leu	Gln	Ser	Ile	Arg	Asn	Met	Leu	Ser	Ser	Glu
		115					120					125			
Ala	Val	Val	Ile	Arg	Gln	Gly	Asn	His	Glu	Thr	Ile	Pro	Thr	Thr	Ala
	130					135					140				
Leu	Val	Pro	Gly	Asp	Ile	Val	Val	Ile	Arg	Ala	Gly	Asp	Arg	Ile	Pro
145					150					155					160
Ala	Asp	Leu	Arg	Val	Ile	Glu	Ala	His	Asn	Leu	Arg	Val	Glu	Glu	Ala
				165					170					175	
Ile	Leu	Thr	Gly	Glu	Ser	Thr	Val	Val	Glu	Lys	Ser	Ser	Asp	Val	Leu
			180					185					190		

Ser Gly Glu Leu Pro Leu Gly Asp Arg Tyr Asn Leu Leu Tyr Ser Gly
 195 200 205
 Thr Thr Val Ser Ser Gly Gly Lys Gly Leu Val Val Ala Thr Gly
 210 215 220
 Gly Glu Thr Glu Leu Gly His Ile Asn Gln Met Met Ser Asp Ile Glu
 225 230 235 240
 Lys His Arg Thr Pro Leu Met Val Gln Met Asp Lys Leu Gly Lys Thr
 245 250 255
 Ile Phe Ile Thr Ile Leu Val Met Met Leu Ala Leu Phe Val Phe Ser
 260 265 270
 Leu Ile Phe Arg Asp Met Pro Val Ser Glu Leu Val Leu Ser Leu Ile
 275 280 285
 Ser Leu Ala Val Ala Ala Val Pro Glu Gly Leu Pro Ala Ile Ile Ser
 290 295 300
 Ile Ile Leu Ser Leu Gly Val Gln Ala Met Ala Arg Arg Lys Ala Ile
 305 310 315 320
 Ile Arg Lys Leu Pro Thr Val Glu Thr Leu Gly Ala Met Thr Val Ile
 325 330 335
 Cys Ser Asp Lys Thr Gly Thr Leu Thr Met Asn Glu Met Thr Val Lys
 340 345 350
 Ala Val Ile Thr Ala Asp Thr Thr Arg Val Glu Gly Asp Ser Tyr
 355 360 365
 Glu Pro Val Gly Ala Ile His Pro Val Asp Asp Pro Thr Pro Val Thr
 370 375 380
 Val Thr Gln Gly Ser Val Leu Glu Arg Tyr Leu Arg Thr Val Asp Leu
 385 390 395 400
 Cys Asn Asp Ser Gln Leu Ile Lys Asp Glu Gln Gly Leu Trp Lys Ile
 405 410 415
 Thr Gly Gly Pro Thr Glu Gly Ala Leu Lys Val Leu Ala Ala Lys Ile
 420 425 430
 Pro Leu Pro Thr Ile Asp Ala Glu Leu Arg Ser Lys Ile Pro Phe Asp
 435 440 445
 Ser Gln Tyr Lys Tyr Met Ser Thr Leu Tyr His Leu Gly Asp Glu Glu
 450 455 460
 Val Met Leu Ile Thr Gly Ala Pro Asp Val Leu Phe Arg Leu Cys Gln
 465 470 475 480
 His Gln Gln Thr Gln Asn Gly Leu Glu Pro Phe Asn Leu His Tyr Trp
 485 490 495
 Glu Glu Lys Ile Glu Glu Tyr Ala Arg Glu Gly Leu Arg Met Val Ala
 500 505 510
 Ala Ala Trp Lys Pro Ala Ala Ser Gly Gln Arg Glu Leu Thr His Ala
 515 520 525
 Asp Leu Gln Glu Gly Val Ile Leu Leu Gly Ile Ala Gly Met Met Asp
 530 535 540
 Pro Pro Arg Pro Glu Ala Ile Ser Ala Ile Ala Asp Cys Leu Gln Ala
 545 550 555 560
 Gly Ile Arg Val Lys Met Ile Thr Gly Asp His Pro Gln Thr Ala Met
 565 570 575
 Ser Ile Gly Gln Met Leu Gly Ile Gly Asn Ala Ala Ser Ala Ile Thr
 580 585 590
 Gly Arg Glu Leu Glu Ala Met Asp Asp His Gln Leu Ser Glu Ala Ala
 595 600 605
 Gln Lys Tyr Asp Ile Phe Ala Arg Thr Ser Pro Glu Asp Lys Phe Arg
 610 615 620
 Leu Val Gln Ala Leu Gln Ser Lys Gln Glu Val Val Gly Met Thr Gly
 625 630 635 640
 Asp Gly Val Asn Asp Ala Pro Ala Leu Lys Arg Ala Asp Val Gly Ile
 645 650 655
 Ala Met Gly Ile Lys Gly Thr Glu Val Thr Lys Glu Ala Ala Asp Met
 660 665 670
 Val Leu Thr Asp Asp Asn Phe Ala Thr Ile Ala Arg Ala Val His Glu

	675		680		685														
Gly	Arg	Arg	Val	Tyr	Asp	Asn	Leu	Lys	Lys	Thr	Ile	Leu	Phe	Val	Ile				
	690					695					700								
Pro	Ser	Asn	Ile	Ala	Gln	Ala	Leu	Leu	Ile	Ile	Ile	Ala	Leu	Leu	Ala				
705					710					715					720				
Gly	Asn	Leu	Ile	Pro	Leu	Thr	Pro	Val	Leu	Ile	Leu	Trp	Met	Asn	Met				
				725					730					735					
Ala	Thr	Ser	Ala	Thr	Leu	Ser	Phe	Gly	Leu	Ala	Phe	Glu	Ala	Gly	Glu				
			740					745				750							
Lys	Asp	Ile	Met	Asn	Arg	Pro	Pro	Arg	Lys	Ser	Asn	Leu	His	Val	Met				
	755					760					765								
Asp	Gly	Tyr	Ala	Ile	Trp	Arg	Val	Val	Phe	Val	Gly	Leu	Met	Ile	Ala				
	770					775				780									
Ile	Ser	Ala	Phe	Val	Met	Glu	Ala	Trp	Leu	Gln	Pro	Arg	Gly	Tyr	Ser				
785					790					795					800				
Pro	Glu	Ile	Ile	Arg	Thr	Val	Leu	Leu	Gln	Thr	Val	Val	Thr	Ala	Gln				
				805					810					815					
Trp	Phe	Tyr	Met	Leu	Asn	Cys	Arg	Val	Thr	Asp	Gly	Phe	Ser	Leu	Ser				
			820					825				830							
Lys	Gly	Leu	Leu	Ala	Asn	Lys	Gly	Ile	Trp	Ile	Val	Ser	Gly	Val	Leu				
	835					840					845								
Met	Ala	Leu	Gln	Leu	Leu	Ile	Ile	Tyr	Ala	Pro	Phe	Met	Gln	Met	Leu				
	850					855				860									
Phe	Gly	Thr	Glu	Ala	Leu	Pro	Phe	Arg	Tyr	Trp	Ile	Ile	Thr	Cys	Leu				
865					870				875						880				
Ile	Gly	Phe	Ala	Met	Phe	Met	Ile	Val	Glu	Ala	Glu	Lys	Val	Phe	Thr				
				885					890					895					
Arg	Arg	Trp	Arg	Thr	Thr	Lys	Arg												
			900					905											

<210> 6702

<211> 180

<212> PRT

<213> Enterobacter cloacae

<400> 6702

His	Pro	Phe	Leu	Phe	Ser	Val	Lys	Gly	Ile	His	Ala	Cys	Thr	His	Gly				
1			5					10						15					
Val	Asp	Ala	Ile	Ser	Pro	Asp	Ser	Leu	Thr	Val	Val	Leu	Val	Ile	Lys				
			20					25					30						
Arg	Met	Leu	Asp	Met	Tyr	Lys	Thr	Ile	Leu	Val	Pro	Val	Asp	Val	Tyr				
			35				40					45							
Glu	Thr	Ala	Leu	Ser	Asp	Lys	Ala	Leu	Gln	His	Ala	Gln	Phe	Leu	Ala				
	50				55					60									
Gln	Ser	Ala	Ser	Gly	Asn	Val	His	Leu	Leu	Tyr	Val	Met	Pro	Lys	Phe				
65				70				75						80					
Ser	Ala	Glu	Leu	Thr	Arg	Gly	Phe	Ile	Ala	Asp	Ala	Arg	Lys	Met	Asp				
			85					90					95						
Glu	Tyr	Met	Ile	Asn	Asn	Ala	Lys	Glu	Lys	Leu	Ala	Ala	Leu	Val	Lys				
			100					105					110						
Lys	Ile	Asn	Leu	Pro	Glu	Ala	Asn	Val	His	Leu	His	Val	Arg	Ser	Gly				
	115						120					125							
Asn	Ile	Arg	Asp	Glu	Val	Ile	Lys	Leu	Ala	Asp	Glu	Leu	Asn	Val	Gly				
	130					135				140									
Ala	Ile	Ile	Val	Gly	Ser	Arg	Asn	Pro	Asn	Ile	Gln	Thr	His	Leu	Leu				
145					150				155					160					
Gly	Ser	Glu	Ala	Ala	Ser	Ile	Val	Arg	Tyr	Ala	His	Val	Pro	Val	Phe				
			165					170						175					
Val	Ile	Arg																	

180

<210> 6703
 <211> 238
 <212> PRT
 <213> Enterobacter cloacae

<220>
 <221> UNSURE
 <222> (238)

<400> 6703

Val	Gln	Asn	Thr	Met	Ile	Arg	Phe	Ala	Ser	Phe	Val	Phe	Thr	Leu	Gly
1				5					10					15	
Ile	Leu	Val	Pro	Ala	Ala	Ser	Ala	Val	Thr	Tyr	Pro	Leu	Pro	Pro	Glu
			20					25					30		
Gly	Ser	Arg	Leu	Val	Gly	Ala	Pro	Ile	Thr	Ile	Thr	Val	Pro	Glu	Gly
		35					40					45			
Asn	Thr	Leu	Pro	Leu	Glu	Ala	Phe	Ala	Ala	Gln	His	Gly	Gln	Gly	Leu
		50				55					60				
Ser	Asn	Met	Leu	Glu	Ala	Asn	Pro	Gly	Val	Asp	Pro	Phe	Leu	Pro	Arg
65					70					75					80
Ala	Gly	Thr	Gln	Leu	Ala	Val	Pro	Gln	Gln	Leu	Ile	Leu	Pro	Pro	Thr
			85						90					95	
Val	Arg	Glu	Gly	Ile	Val	Val	Asn	Val	Ala	Glu	Met	Arg	Leu	Tyr	Tyr
			100					105					110		
Tyr	Pro	Pro	Gly	Ser	Asn	Thr	Val	Glu	Val	Leu	Pro	Ile	Gly	Ile	Gly
		115					120						125		
Gln	Ala	Gly	Arg	Glu	Thr	Pro	Arg	Asn	Trp	Val	Thr	Ala	Val	Glu	Arg
		130				135					140				
Lys	Gln	Glu	Gly	Pro	Thr	Trp	Ser	Pro	Thr	Pro	Asn	Thr	Arg	Arg	Ala
145					150					155					160
Tyr	Ala	Lys	Glu	Gly	Lys	Thr	Leu	Pro	Ala	Phe	Val	Pro	Ala	Gly	Pro
			165						170					175	
Asp	Asn	Pro	Met	Gly	Leu	Tyr	Ala	Leu	Tyr	Ile	Gly	Arg	Leu	Tyr	Ala
			180					185					190		
Ile	His	Gly	Thr	Asn	Ser	Asn	Phe	Gly	Ile	Gly	Leu	Arg	Val	Ser	Gln
		195					200					205			
Gly	Cys	Ile	Arg	Leu	Arg	Asn	Asp	Ile	Lys	Tyr	Leu	Phe	Asp	Asp	
	210					215				220					
Val	Ser	Phe	Ser	Pro	Gly	Ser	Ala	Gly	Ser	Gly	Ile	Ile	Xaa		
225					230					235					

<210> 6704
 <211> 370
 <212> PRT
 <213> Enterobacter cloacae

<400> 6704

Asn	Asn	Tyr	Tyr	Gln	Gly	Asn	Thr	Val	Lys	Arg	Tyr	Leu	Ser	Leu	Leu
1				5					10					15	
Pro	Val	Val	Leu	Leu	Leu	Leu	Thr	Ala	Cys	Asp	Pro	Lys	Ser	Asp	Arg
			20					25					30		
Ala	Ala	Pro	Leu	Pro	Lys	Met	Val	Lys	Val	Ala	Glu	Val	Val	Lys	Ala
		35					40					45			
Gly	Asn	Ala	Gln	Gln	Arg	Val	Phe	Pro	Ala	Arg	Ile	Glu	Ser	Gly	Asp
	50					55					60				
Ala	Thr	Asp	Leu	Ala	Phe	Lys	Arg	Ala	Gly	Gln	Ile	Glu	Thr	Leu	Asp
65					70					75					80
Ile	Arg	Gln	Gly	Ala	Val	Val	Lys	Gln	Gly	Gln	Arg	Leu	Ala	Ser	Leu
			85						90					95	
Asn	Asp	Arg	Glu	Ala	Arg	Gln	Arg	Leu	Asn	Asp	Arg	Gln	Thr	Ala	Ala
			100					105					110		

Thr Leu Ala Gln Arg Gln Phe Asp Arg Phe Gln Thr Leu Ala Gly Arg
 115 120 125
 Gln Ala Val Ser Lys Ala Glu Met Asp Val Gln Arg Ala Asn Arg Asp
 130 135 140
 Ser Ala Asn Ala Ala Leu Gln Ile Ala Arg Glu Glu Leu Ser Gln Met
 145 150 155 160
 Thr Leu Val Ala Pro Phe Ser Gly Thr Ala Ala Ser Val His Val Arg
 165 170 175
 Asn His Gln Val Val Ser Ala Gly Gln Pro Val Val Thr Leu Thr Arg
 180 185 190
 Thr Asp Leu Leu Asp Val Val Phe Ser Leu Pro Glu Asn Leu Phe Asn
 195 200 205
 Thr Phe Asp Ile Arg Asn Ala Gln Tyr Lys Pro Val Val Arg Ile Asn
 210 215 220
 Ala Leu Pro Gly Arg Glu Phe Thr Ala Val Tyr Lys Glu His Ser Gly
 225 230 235 240
 Ser Ser Asp Ser Asn Thr Leu Thr Trp Gln Val Ile Leu Thr Met Pro
 245 250 255
 Arg Pro Asp Asp Phe Pro Val Val Gly Gly Val Ser Gly Thr Val Thr
 260 265 270
 Ile Asn Leu Thr Asn Leu Pro Ala Gly Val Gly Ser Glu Ala Leu Val
 275 280 285
 Val Pro Val Glu Ala Val Phe Asn Pro Asp Asn His Pro Arg Asn Glu
 290 295 300
 Pro His Val Trp Val Val Thr Gly Glu Gly Asp Thr Leu His Leu Glu
 305 310 315 320
 Asp Arg Lys Val Ser Val Gly Gln Val Ser Ala Glu Gly Val Ile Ile
 325 330 335
 Val Gly Gly Leu Lys Ala Gly Glu Arg Val Val Ala Ala Gly Val Gly
 340 345 350
 Glu Leu His Pro Asn Gln Pro Val Arg Ile Trp Thr Arg Glu Arg Gly
 355 360 365
 Leu
 370

<210> 6705

<211> 159

<212> PRT

<213> Enterobacter cloacae

<400> 6705

Val Val Ser Ala Val Ile Thr Ala Phe Thr Val Ile Ser Phe Met Val
 1 5 10 15
 Arg Val Pro Val Leu Ser Glu Gln Ile Thr Val Ile Ala Pro Ser Val
 20 25 30
 Ser Thr Val Gly Ser Leu Arg Ile Ile Ala Leu Arg Arg Ala Ile Ala
 35 40 45
 Cys Thr Pro Ser Glu Arg Met Ile Glu Ile Met Ala Gly Asn Pro Ser
 50 55 60
 Gly Thr Ala Ala Thr Ala Arg Leu Ile Ser Asp Ser Thr Ser Ser Glu
 65 70 75 80
 Thr Gly Ile Ser Arg Lys Met Arg Leu Lys Thr Asn Ser Ala Ser Ile
 85 90 95
 Ile Thr Arg Met Val Ile Lys Met Val Leu Pro Ser Leu Ser Ile Cys
 100 105 110
 Thr Ile Asn Gly Val Arg Cys Phe Ser Met Ser Asp Ile Ile Trp Leu
 115 120 125
 Ile Trp Pro Ser Ser Val Ser Pro Pro Val Ala Thr Thr Ser Pro Phe
 130 135 140
 Pro Pro Pro Glu Leu Thr Val Val Pro Glu Tyr Ser Arg Leu
 145 150 155

<210> 6706
 <211> 448
 <212> PRT
 <213> Enterobacter cloacae

<400> 6706

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Leu Lys Ile Ser Thr Asp Arg Thr Thr Met Asp Ser Thr Leu Ile Ser
1      5      10      15
Ala Arg Arg Asn Glu Glu Thr Pro Ser Leu Asn Arg Ala Arg Arg Ala
20     25     30
Ala Leu Gly Ser Phe Ala Gly Ala Val Val Asp Trp Tyr Asp Phe Leu
35     40     45
Leu Tyr Gly Ile Thr Ala Ala Leu Val Phe Asn Arg Glu Phe Phe Pro
50     55     60
Gln Ile Ser Pro Ala Met Gly Thr Leu Ala Ala Phe Ala Thr Phe Gly
65     70     75     80
Val Gly Phe Leu Phe Arg Pro Leu Gly Gly Ile Ile Phe Gly His Phe
85     90     95
Gly Asp Arg Leu Gly Arg Lys Arg Met Leu Met Leu Thr Val Trp Met
100    105    110
Met Gly Ile Ala Thr Ala Leu Ile Gly Ile Leu Pro Ser Phe Ala Ser
115    120    125
Ile Gly Trp Trp Ala Pro Val Leu Leu Val Thr Leu Arg Ala Ile Gln
130    135    140
Gly Phe Ala Val Gly Gly Glu Trp Gly Gly Ala Ala Leu Leu Ser Val
145    150    155    160
Glu Ser Ala Pro Lys Asn Lys Lys Ala Phe Tyr Ser Ser Gly Val Gln
165    170    175
Val Gly Tyr Gly Val Gly Leu Leu Leu Ser Thr Gly Leu Val Ser Leu
180    185    190
Ile Ser Gln Leu Thr Thr Asp Glu Gln Phe Leu Ser Trp Gly Trp Arg
195    200    205
Ile Pro Phe Ile Phe Ser Ile Val Leu Val Val Val Ala Leu Trp Ile
210    215    220
Arg Asn Gly Met Glu Glu Ser Ala Glu Phe Glu Arg Gln Gln Arg Glu
225    230    235    240
Lys Pro Val Ala Lys Lys Arg Leu Pro Val Met Glu Ala Leu Val Gln
245    250    255
His Pro Gly Ala Phe Leu Lys Ile Ile Ala Leu Arg Leu Cys Glu Leu
260    265    270
Leu Thr Met Tyr Ile Val Thr Ala Phe Ala Leu Asn Tyr Ser Thr Gln
275    280    285
Asn Leu Gly Leu Pro Arg Glu Leu Phe Leu Asn Ile Gly Leu Val Val
290    295    300
Gly Gly Ile Ser Cys Leu Thr Ile Pro Cys Phe Ala Trp Leu Ala Asp
305    310    315    320
Arg Phe Gly Arg Arg Arg Val Tyr Ile Thr Gly Ala Leu Ile Gly Thr
325    330    335
Leu Ser Ala Trp Pro Phe Phe Met Ala Leu Glu Ala Gln Ser Val Phe
340    345    350
Trp Ile Val Phe Phe Ala Ile Met Leu Ala Asn Ile Ala His Asp Met
355    360    365
Val Val Cys Val Gln Gln Pro Met Phe Thr Glu Leu Phe Gly Ala Ser
370    375    380
Tyr Arg Tyr Ser Gly Ala Gly Val Gly Tyr Gln Val Ala Ser Val Val
385    390    395    400
Gly Gly Gly Phe Thr Pro Phe Ile Ala Ala Ala Leu Val Thr Phe Ser
405    410    415
Gly Gly Asn Trp His Ser Val Ala Ile Tyr Leu Leu Ala Gly Cys Leu
420    425    430

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Leu Ser Ala Ala Thr Ala Leu Leu Met Lys Glu Thr Ala His Ser
 435 440 445

<210> 6707

<211> 1025

<212> PRT

<213> Enterobacter cloacae

<400> 6707

Thr	Gly	Thr	Ile	Met	Asp	Ile	Ser	Arg	Gln	Phe	Ile	Ser	Asn	Pro	Val
1				5					10				15		
Arg	Val	Trp	Leu	Thr	Ile	Leu	Leu	Leu	Gly	Val	Gly	Gly	Ile	Ile	Ala
			20					25					30		
Leu	Leu	Asn	Ile	Gly	Arg	Leu	Glu	Asp	Pro	Ala	Phe	Thr	Ile	Lys	Thr
		35					40					45			
Ala	Val	Val	Ile	Thr	His	Tyr	Pro	Gly	Ala	Ser	Ala	Gln	Gln	Val	Glu
	50					55					60				
Glu	Glu	Val	Thr	Leu	Pro	Leu	Glu	Asn	Ala	Leu	Gln	Gln	Leu	Pro	Tyr
65					70					75				80	
Leu	Asp	Asn	Val	Ser	Ser	Ile	Ser	Ser	Ser	Gly	Leu	Ser	Gln	Ile	Thr
				85					90					95	
Val	Asn	Ile	Ala	Ser	Arg	Tyr	His	Ser	Asn	Ala	Leu	Pro	Gln	Ile	Trp
			100					105					110		
Asp	Glu	Leu	Arg	Arg	Arg	Val	Gly	Asp	Ala	Ala	Arg	Gln	Phe	Pro	Pro
		115					120					125			
Gly	Val	Val	Thr	Pro	Phe	Val	Asn	Asp	Asp	Phe	Gly	Asp	Val	Phe	Gly
	130					135					140				
Phe	Phe	Phe	Ala	Ile	Ser	Gly	Asp	Glu	Phe	Ser	Asn	Pro	Glu	Leu	Val
145					150					155				160	
Arg	Tyr	Ala	Glu	Gln	Leu	Arg	Arg	Glu	Leu	Val	Leu	Val	Pro	Gly	Val
				165					170					175	
Gly	Lys	Val	Ala	Ile	Gly	Gly	Ala	Leu	Thr	Gln	Gln	Ile	Asn	Val	Asp
			180					185					190		
Ile	Ser	Leu	Ser	Lys	Met	Ala	Ala	Arg	Gly	Ile	Thr	Leu	Asn	Gln	Leu
		195					200					205			
Ser	Ala	Gln	Leu	Ser	Arg	Leu	Asn	Val	Val	Ser	Ser	Ala	Gly	Glu	Ile
	210					215					220				
Pro	Ser	Gly	Thr	Glu	Ser	Ile	Arg	Leu	His	Pro	Thr	Gly	Glu	Phe	Glu
225					230						235			240	
Ser	Ile	Asp	Glu	Leu	Ala	Asp	Leu	Ile	Val	Thr	Pro	Pro	Gly	Val	Gly
				245					250					255	
Ala	Ala	Thr	Arg	Leu	Arg	Asp	Ile	Ala	Thr	Leu	Ser	Arg	Gly	Leu	Asp
			260					265					270		
Ala	Ser	Pro	Ala	Ser	Ile	Tyr	His	Ala	Asn	Gly	Lys	Glu	Ala	Val	Thr
		275					280					285			
Met	Gly	Val	Ser	Phe	Ile	Pro	Gly	Val	Asn	Val	Ile	Asp	Val	Gly	His
	290					295					300				
Ala	Leu	Glu	Ala	Lys	Leu	Glu	Gln	Met	Ser	Ala	Glu	Lys	Pro	Ala	Gly
305				310						315				320	
Ile	His	Ile	Asp	Leu	Phe	Tyr	Asp	Gln	Ala	Ala	Glu	Val	Gly	His	Ser
				325					330					335	
Val	Asn	Gly	Phe	Ile	Ile	Asn	Phe	Val	Met	Ala	Leu	Ala	Ile	Val	Val
			340					345					350		
Gly	Val	Leu	Ile	Phe	Met	Gly	Leu	Arg	Ser	Gly	Ile	Ile	Ile	Ala	
		355				360					365				
Phe	Ser	Leu	Ala	Leu	Asn	Val	Leu	Gly	Thr	Leu	Leu	Ile	Met	Tyr	Leu
	370				375						380				
Trp	Gly	Ile	Glu	Leu	Gln	Arg	Ile	Ser	Leu	Gly	Ala	Leu	Ile	Ile	Ala
385					390					395				400	
Leu	Ser	Met	Leu	Val	Asp	Asn	Ala	Ile	Val	Ile	Val	Glu	Gly	Val	Leu
				405					410					415	

Ile Ala Arg Gln Gln Gly Ser Ser Leu Met Asn Ala Ile Ser Asn Ile
 420 425 430
 Ile Arg Arg Ser Ala Leu Pro Leu Leu Gly Ala Thr Val Ile Ala Ile
 435 440 445
 Leu Ala Phe Ala Pro Val Gly Leu Ser Gln Asp Ser Thr Gly Glu Tyr
 450 455 460
 Cys Lys Ser Leu Phe Gln Val Leu Leu Ile Ser Leu Met Leu Ser Trp
 465 470 475 480
 Phe Ser Ala Leu Thr Ile Thr Pro Val Leu Ile Lys Trp Trp Leu Phe
 485 490 495
 Lys Arg Asp Ala Pro Pro Glu Ala Asp Glu Thr Asp Pro Tyr Asp
 500 505 510
 Lys Arg Ile Tyr Arg Ile Tyr Gln Ala Val Leu Asn Ala Leu Leu Arg
 515 520 525
 Arg Lys Ala Pro Thr Leu Val Val Met Ala Ala Leu Leu Ala Ala Ala
 530 535 540
 Ile Trp Gly Phe Gly Ser Val Arg Gln Asn Phe Phe Pro Ser Ser Ser
 545 550 555 560
 Thr Pro Ile Phe Phe Val Asp Leu Trp Leu Pro Tyr Gly Thr Asp Ile
 565 570 575
 Lys Trp Thr Glu Lys Met Thr Ser Asp Ile Glu Lys Thr Ile Asn Gly
 580 585 590
 Gln Pro Gly Val Glu Thr Thr Val Ser Thr Ile Gly Gln Gly Ser Met
 595 600 605
 Arg Phe Ile Leu Thr Tyr Ser Gly Gln Arg Gln Tyr Ser Asn Tyr Ala
 610 615 620
 Gln Ile Met Val Arg Met Asp Asp Gln Arg Asn Ile Pro Ala Leu Thr
 625 630 635 640
 Arg His Val Asp Glu Tyr Ile Ala Arg Asn Tyr Pro Gln Val Asn Ala
 645 650 655
 Ser Thr Lys Arg Val Met Phe Gly Pro Ser Gly Asp Ser Ala Ile Glu
 660 665 670
 Val Arg Ile Lys Gly Pro Asp Pro Asp Arg Leu Arg Leu Ile Ala Ser
 675 680 685
 Gln Val Asp Asn Ile Leu Thr Arg Asp Pro Ala Thr Asp Ser Val Arg
 690 695 700
 Asn Asp Trp Gln Asn Arg Ser Lys Val Ile Arg Pro Gln Tyr Ile Thr
 705 710 715 720
 Ala Leu Gly Arg Glu Leu Gly Val Asp Lys Gln Asp Val Asp Asn Ala
 725 730 735
 Leu Glu Met Asn Phe Ser Gly Ser Arg Ala Gly Leu Tyr Arg Glu Gly
 740 745 750
 Ser Asp Leu Leu Pro Val Val Val Arg Pro Pro Glu Ser Glu Arg Leu
 755 760 765
 Asp Ala Asn His Leu Asn Asn Val Leu Val Trp Ser Gln Thr Arg Gln
 770 775 780
 Gln Tyr Ile Pro Leu Ser Asn Val Val Ser Gly Phe Ala Leu Glu Trp
 785 790 795 800
 Glu Asp Pro Leu Ile Leu Arg Arg Asp Arg Ser Arg Val Leu Thr Val
 805 810 815
 Gln Thr Asp Pro Asp Pro Leu Ser Gln Gln Thr Ser Gly Asp Ile Leu
 820 825 830
 Ala Arg Val Lys Pro Gln Ile Asp Ala Leu Pro Leu Pro His Gly Tyr
 835 840 845
 Ser Ile Glu Trp Gly Gly Asp Ala Glu Asn Ser Ser Glu Ala Gln Gln
 850 855 860
 Gly Leu Phe Thr Thr Leu Pro Ile Gly Tyr Leu Val Met Phe Val Ile
 865 870 875 880
 Thr Val Leu Met Phe Ser Ser Val Lys Asn Ala Val Ala Ile Trp Leu
 885 890 895
 Thr Val Pro Leu Ala Leu Ile Gly Val Thr Pro Gly Phe Leu Ile Thr

900 905 910
 Gly Ile Pro Phe Gly Phe Met Ala Leu Ile Gly Leu Leu Ser Leu Ser
 915 920 925
 Gly Met Leu Ile Arg Asn Gly Ile Val Leu Val Glu Glu Ile Glu Gln
 930 935 940
 Gln Lys Ala Gln Gln Asp Gln His Ser Ala Ile Val Tyr Ala Ala Thr
 945 950 955 960
 Ser Arg Leu Arg Pro Ile Leu Leu Thr Ala Phe Thr Thr Val Leu Asp
 965 970 975
 Leu Ala Pro Leu Leu Leu Asp Val Phe Phe Gln Ser Met Ala Val Val
 980 985 990
 Ile Met Phe Gly Leu Gly Phe Ala Thr Ile Leu Thr Leu Leu Val Leu
 995 1000 1005
 Pro Val Ile Tyr Ala Cys Phe His Arg Lys Asp Lys Ala Glu Gln Gln
 1010 1015 1020

1025

<210> 6708

<211> 517

<212> PRT

<213> Enterobacter cloacae

<400> 6708

Arg Lys Pro Arg Thr Ala Asp Leu Leu Thr Phe Val Ser Gln Ala Cys
 1 5 10 15
 Asp Ile Leu Ser Gly Lys Ala Ala His Leu Trp Asn Lys Glu Thr Asp
 20 25 30
 Met Asn Asn Lys Gly Ser Ser Leu Thr Pro Ala Gln Ala Leu Glu Lys
 35 40 45
 Leu Asp Ala Leu Tyr Glu Gln Ser Val Asn Ala Leu Arg Ser Ala Ile
 50 55 60
 Ser Asp Tyr Ile Glu Thr Gly Lys Leu Pro Asp Glu Lys Ala Arg Thr
 65 70 75 80
 Gln Gly Leu Phe Val Tyr Pro Ser Leu Ser Val Thr Trp Asp Gly Ser
 85 90 95
 Ala Ser Ser Asn Pro Lys Thr Arg Ala Tyr Ala Arg Phe Thr His Ser
 100 105 110
 Gly Cys Tyr Ser Thr Thr Ile Thr Arg Pro Ala Leu Phe Arg Pro Tyr
 115 120 125
 Leu Glu Glu Gln Leu Thr Leu Leu Tyr Gln Asp Tyr Gly Ala His Ile
 130 135 140
 Ser Val Glu Pro Ser Leu His Glu Ile Pro Tyr Pro Tyr Val Ile Asp
 145 150 155 160
 Gly Ser Ala Leu Thr Leu Asp Arg Ser Met Ser Ala Gly Leu Thr Arg
 165 170 175
 His Phe Pro Thr Thr Glu Leu Ser Gln Ile Gly Asp Glu Thr Ala Asp
 180 185 190
 Gly Ile Tyr His Pro Ala Glu Phe Ser Pro Leu Ser His Phe Asp Ala
 195 200 205
 Arg Arg Val Asp Phe Ser Leu Ala Arg Leu Arg His Tyr Thr Gly Thr
 210 215 220
 Pro Ala Glu His Phe Gln Pro Phe Val Leu Phe Thr Asn Tyr Thr Arg
 225 230 235 240
 Tyr Val Asp Glu Phe Val Arg Trp Gly Cys Ser Gln Ile Leu Ala Pro
 245 250 255
 Asp Ser Pro Tyr Val Ala Leu Ser Cys Ala Gly Gly Ile Trp Ile Thr
 260 265 270
 Ala Glu Thr Glu Ala Pro Glu Glu Ala Ile Ser Asp Leu Ala Trp Lys
 275 280 285
 Lys His Gln Met Pro Ala Trp His Leu Ile Thr Ala Asp Gly Gln Gly

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      290                      295                      300
Ile Thr Leu Ile Asn Ile Gly Val Gly Pro Ser Asn Ala Lys Thr Ile
305                      310                      315
Cys Asp His Leu Ala Val Leu Arg Pro Asp Val Trp Leu Met Ile Gly
      325                      330                      335
His Cys Gly Gly Leu Arg Glu Ser Gln Leu Ile Gly Asp Tyr Val Leu
      340                      345                      350
Ala His Ala Tyr Leu Arg Asp Asp His Val Leu Asp Ala Val Leu Pro
      355                      360                      365
Pro Asp Ile Pro Ile Pro Ser Ile Ala Glu Val Gln Arg Ala Leu Tyr
      370                      375                      380
Asp Ala Thr Lys Glu Val Ser Gly Met Pro Gly Glu Glu Val Lys Gln
385                      390                      395
Arg Leu Arg Thr Gly Thr Val Val Thr Thr Asp Asp Arg Asn Trp Glu
      405                      410                      415
Leu Arg Tyr Ser Ala Ser Ala Leu Arg Phe Asn Leu Ser Arg Ala Val
      420                      425                      430
Ala Ile Asp Met Glu Ser Ala Thr Ile Ala Ala Gln Gly Tyr Arg Phe
      435                      440                      445
Arg Val Pro Tyr Gly Thr Leu Leu Cys Val Ser Asp Asn Pro Leu His
      450                      455                      460
Gly Glu Ile Lys Leu Pro Gly Gln Ala Asn Arg Phe Tyr Glu Gly Ala
465                      470                      475
Ile Ser Glu His Leu Gln Ile Gly Ile Arg Ala Ile Asp Leu Leu Arg
      485                      490                      495
Ala Glu Gly Asp Lys Leu His Ser Arg Lys Leu Arg Thr Phe Asn Glu
      500                      505                      510
Pro Pro Phe Arg
      515

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<210> 6709

<211> 180

<212> PRT

<213> Enterobacter cloacae

<220>

<221> UNSURE

<222> (180)

<400> 6709

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Arg Val Leu Lys His Ile Ile Leu Thr Ala Ile Cys Ala Leu Leu Asn
1                      5                      10                      15
Leu Tyr Ala Lys Lys Phe Arg Cys Pro Asp Val Leu Thr Ser Ile Leu
      20                      25                      30
Ser Met Phe Thr Leu Val Pro Asp Phe Ser Pro His Ser Pro Gly Ser
      35                      40                      45
Leu Thr Met Thr Arg Lys Gln Ala Thr Ile Ala Val Arg Ser Gly Leu
      50                      55                      60
Asn Asp Asp Glu Gln Tyr Gly Cys Val Val Pro Pro Ile His Leu Ser
65                      70                      75                      80
Ser Thr Tyr Asn Phe Thr Gly Phe Asn Glu Pro Arg Ala His Asp Tyr
      85                      90                      95
Ser Arg Arg Gly Asn Pro Thr Arg Asp Val Thr Gln Arg Ala Leu Ala
      100                      105                      110
Glu Leu Glu Gly Gly Ala Gly Ala Val Leu Thr Asn Thr Gly Met Ser
      115                      120                      125
Ala Ile His Leu Val Thr Thr Val Phe Leu Lys Pro Gly Asp Leu Leu
      130                      135                      140
Val Ala Pro His Glu Cys Tyr Gly Gly His Tyr Pro Leu Phe Asp Ile
145                      150                      155                      160
Pro Ala Asn Thr Gly Phe Tyr Leu Val Phe Leu Pro Pro Ser Ser Ile

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165 170 175
 Tyr Thr Thr Xaa
 180

<210> 6710
 <211> 104
 <212> PRT
 <213> Enterobacter cloacae

<400> 6710
 Pro Thr Ser Val Asn Leu Val Ala Ser Thr Leu Met Asn Gly Ala Leu
 1 5 10 15
 Ala Ser Leu Ala Arg Arg Arg Ala Ile Ser Val Leu Pro Thr Pro Val
 20 25 30
 Gly Pro Ile Ile Arg Ile Phe Phe Gly Val Thr Ser Trp Arg Ser Ser
 35 40 45
 Ser Ser Ser Cys Met Arg Arg Gln Arg Leu Arg Ser Ala Ile Ala Thr
 50 55 60
 Glu Arg Leu Ala Leu Ser Trp Pro Ile Met Cys Leu Phe Ser Ser Leu
 65 70 75 80
 Thr Ile Ser Arg Gly Val Ile Ser Asp Met Gly Asp Pro Tyr Ala Leu
 85 90 95
 Asp Gly Asn Ser Ser Met Val
 100

<210> 6711
 <211> 74
 <212> PRT
 <213> Enterobacter cloacae

<400> 6711
 Gly Ser Pro Met Lys Lys Asp Ile His Pro Lys Tyr Glu Met Ile Thr
 1 5 10 15
 Ala Asn Cys Ser Cys Gly Asn Ser Ile Gln Ile Arg Ser Thr Val Gly
 20 25 30
 His Asp Leu Asn Leu Asp Val Cys Gly Lys Cys His Pro Phe Tyr Thr
 35 40 45
 Gly Lys Gln Arg Asp Val Ala Thr Gly Gly Arg Val Asp Arg Phe Asn
 50 55 60
 Lys Arg Phe Ser Ile Pro Gly Ala Lys
 65 70

<210> 6712
 <211> 255
 <212> PRT
 <213> Enterobacter cloacae

<400> 6712
 Asn Tyr Thr Ala Leu Asp Ile Asn Ser Tyr Leu Pro Phe Gln Gln Arg
 1 5 10 15
 Trp Leu Ser Gly Cys Ile Tyr Phe Glu Gly Lys Arg Met Lys Leu Lys
 20 25 30
 Gln Leu Leu Phe Val Leu Pro Leu Leu Ser Cys Ala Ala Gln Ala Gly
 35 40 45
 Tyr Val Asp Tyr Arg His Glu Tyr Tyr Asp Asp Gly Arg Asn Tyr Asp
 50 55 60
 Arg Val Tyr Met Ser His Arg Phe Gly Thr Gly Phe Gly Val Ala Val
 65 70 75 80
 Glu Ala Val Ser Arg Ser Asp Glu Lys Gln Ser Asn Asp Ala Leu Asn
 85 90 95
 Asn Met Glu Ser Asn Ser Asn Glu Tyr Thr Ala Ser Tyr Gln Phe Thr

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<210> 6713
<211> 360
<212> PRT
<213> Enterobacter cloacae
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<400> 6713															
Leu	Ser	Val	Lys	Met	Val	Arg	Ser	Ala	Val	Arg	Cys	Ser	Gly	Glu	Glu
1				5					10					15	
Lys	Thr	Leu	Lys	Ser	Arg	Lys	Glu	Val	Ala	Ser	Ala	Thr	Met	Lys	Asp
			20					25					30		
Val	Ala	Glu	Lys	Ala	Gln	Val	Ser	Thr	Ala	Thr	Val	Ser	Arg	Ala	Leu
		35					40					45			
Met	Asn	Pro	Asp	Lys	Val	Ser	Gln	Ala	Thr	Arg	Asn	Arg	Val	Glu	Lys
	50					55					60				
Ala	Ala	Leu	Glu	Val	Gly	Tyr	Phe	Pro	Gln	Ala	Met	Gly	Arg	Asn	Val
65					70					75				80	
Lys	Arg	Asn	Glu	Ser	Arg	Thr	Ile	Leu	Val	Ile	Val	Pro	Asp	Ile	Cys
				85					90					95	
Asp	Pro	Phe	Phe	Ser	Glu	Ile	Ile	Arg	Gly	Ile	Glu	Val	Thr	Ala	Ala
			100					105					110		
Ala	Gln	Gly	Tyr	Leu	Val	Leu	Ile	Gly	Asp	Cys	Ala	His	Gln	Asn	Gln
		115					120					125			
Gln	Glu	Lys	Thr	Phe	Ile	Asp	Leu	Ile	Ile	Thr	Lys	Gln	Ile	Asp	Gly
		130				135						140			
Met	Leu	Leu	Leu	Gly	Ser	Arg	Leu	Pro	Phe	Asp	Ala	Ser	Ile	Glu	Glu
145					150					155				160	
Gln	Arg	Asn	Leu	Pro	Pro	Met	Val	Met	Ala	Asn	Glu	Phe	Ala	Pro	Glu
				165					170					175	
Leu	Glu	Leu	Pro	Thr	Val	His	Ile	Asp	Asn	Leu	Thr	Ala	Ala	Phe	Asn
			180					185					190		
Ala	Val	Asn	Tyr	Leu	Gln	Glu	Leu	Gly	His	Lys	Arg	Ile	Gly	Cys	Ile
		195					200					205			
Ala	Gly	Pro	Glu	Glu	Met	Pro	Leu	Cys	His	Tyr	Arg	Leu	Gln	Gly	Tyr
	210					215					220				
Val	Gln	Ala	Leu	Arg	Arg	Thr	Gly	Ala	Ile	Val	Asp	Pro	His	Tyr	Ile
225					230					235				240	
Ala	Arg	Gly	Asp	Phe	Thr	Phe	Glu	Ala	Gly	Gly	Gln	Ala	Leu	Glu	Lys
				245					250					255	
Leu	Leu	Ala	Leu	Pro	Glu	Pro	Pro	Thr	Ala	Val	Phe	Cys	His	Ser	Asp
			260					265					270		
Val	Met	Ala	Leu	Gly	Ala	Leu	Ser	Tyr	Ala	Lys	Arg	His	Gly	Leu	Arg

275 280 285
 Val Pro Gln Asp Leu Ser Ile Ile Gly Phe Asp Asn Ile Ser Leu Ser
 290 295 300
 Glu Phe Cys Asp Pro Pro Leu Ser Thr Val Ala Gln Pro Arg Tyr Asp
 305 310 315 320
 Ile Gly Arg Glu Ala Met Leu Leu Leu Leu Asp Gln Leu His Gly Gln
 325 330 335
 Thr Val Ser Ser Gly Ser Arg Leu Leu Asp Cys Glu Leu Ile Val Arg
 340 345 350
 Gly Ser Thr Thr Gln Ala Leu Thr
 355 360

<210> 6714

<211> 153

<212> PRT

<213> Enterobacter cloacae

<400> 6714

Thr Lys Cys Arg Gly Thr Asn Lys Pro Arg Arg Ser Val Ser Lys His
 1 5 10 15
 Cys Ser Ala Ser Val Arg Leu Ser Ser Lys Arg Asn Ser Ser Ser Gly
 20 25 30
 Arg Arg Arg Ser Arg Tyr Ser Ser Arg Val His Asn Arg Ser Ser Arg
 35 40 45
 Arg Val Pro Tyr Lys Leu Ser Leu Ser Ser Ser Asn Arg Arg Arg Ser
 50 55 60
 Arg Arg Ser Lys Arg His Ser Arg Ile Arg Ile Cys Cys Arg Arg Leu
 65 70 75 80
 Arg Ile Pro Leu Arg Asn Ser Gln Lys Arg Ser Arg Leu Arg Arg Ser
 85 90 95
 Pro Lys Arg Pro Arg Cys Arg Ser Arg Arg Leu Arg Lys Lys Met Asn
 100 105 110
 Ala Ala Gly Trp Phe Ser Ala Val Arg Leu Lys Ala Pro Asn Arg Gln
 115 120 125
 Lys Arg Cys Val Leu Ser Trp His Leu Lys Asp Leu Thr His Ala Leu
 130 135 140
 Pro Pro Ile Thr Ala Gly Ile Ala
 145 150

<210> 6715

<211> 182

<212> PRT

<213> Enterobacter cloacae

<400> 6715

Pro Gly Gly Leu Leu Val Thr Thr Ile Val Ser Val Arg Arg Asn Gly
 1 5 10 15
 Gln Val Val Ile Ala Gly Asp Gly Gln Ala Thr Leu Gly Asn Thr Val
 20 25 30
 Met Lys Gly Asn Val Lys Lys Val Arg Arg Leu Tyr Asn Asp Lys Val
 35 40 45
 Ile Ala Gly Phe Ala Gly Gly Thr Ala Asp Ala Phe Thr Leu Phe Glu
 50 55 60
 Leu Phe Glu Arg Lys Leu Glu Met His Gln Gly His Leu Val Lys Ala
 65 70 75 80
 Ala Val Glu Leu Ala Lys Asp Trp Arg Thr Asp Arg Met Leu Arg Lys
 85 90 95
 Leu Glu Ala Leu Leu Ala Val Ala Asp Glu Asn Ala Ser Leu Ile Ile
 100 105 110
 Thr Gly Asn Gly Asp Val Val Gln Pro Glu Asn Asp Leu Ile Ala Ile
 115 120 125

Gly Ser Gly Gly Pro Tyr Ala Gln Ala Ala Ala Arg Ala Leu Leu Glu
 130 135 140
 Asn Thr Asp Met Asn Ala Arg Asp Ile Ala Val Lys Ala Leu Asp Ile
 145 150 155 160
 Ala Gly Asp Ile Cys Ile Tyr Thr Asn His Asn His Thr Ile Glu Glu
 165 170 175
 Leu Pro Ser Lys Ala
 180

<210> 6716

<211> 358

<212> PRT

<213> Enterobacter cloacae

<400> 6716

Gly Ser Pro Met Ser Glu Met Thr Pro Arg Glu Ile Val Ser Glu Leu
 1 5 10 15
 Asn Lys His Ile Ile Gly Gln Asp Asn Ala Lys Arg Ser Val Ala Ile
 20 25 30
 Ala Leu Arg Asn Arg Trp Arg Arg Met Gln Leu Asp Glu Glu Leu Arg
 35 40 45
 His Glu Val Thr Pro Lys Asn Ile Leu Met Ile Gly Pro Thr Gly Val
 50 55 60
 Gly Lys Thr Glu Ile Ala Arg Arg Leu Ala Lys Leu Ala Asn Ala Pro
 65 70 75 80
 Phe Ile Lys Val Glu Ala Thr Lys Phe Thr Glu Val Gly Tyr Val Gly
 85 90 95
 Lys Glu Val Asp Ser Ile Ile Arg Asp Leu Thr Asp Ser Ala Ile Lys
 100 105 110
 Met Val Arg Val Gln Ala Ile Glu Lys Asn Arg Tyr Arg Ala Glu Glu
 115 120 125
 Met Ala Glu Glu Arg Ile Leu Asp Val Leu Ile Pro Pro Ala Lys Asn
 130 135 140
 Asn Trp Gly Gln Ala Glu Gln Gln Ser Glu Pro Ser Ala Ala Arg Gln
 145 150 155 160
 Ala Phe Arg Lys Lys Leu Arg Glu Gly Glu Leu Asp Asp Lys Glu Ile
 165 170 175
 Glu Ile Asp Leu Ala Ala Ala Pro Met Gly Val Glu Ile Met Ala Pro
 180 185 190
 Pro Gly Met Glu Glu Met Thr Ser Gln Leu Gln Ser Met Phe Gln Asn
 195 200 205
 Leu Gly Gly Gln Lys Gln Lys Ala Arg Lys Leu Lys Ile Lys Asp Ala
 210 215 220
 Met Lys Leu Leu Ile Glu Glu Glu Ala Ala Lys Leu Val Asn Pro Glu
 225 230 235 240
 Glu Leu Lys Gln Asp Ala Ile Asp Ala Val Glu Gln His Gly Ile Val
 245 250 255
 Phe Ile Asp Glu Ile Asp Lys Ile Cys Lys Arg Gly Asn Ala Ser Gly
 260 265 270
 Pro Asp Val Ser Arg Glu Gly Val Gln Arg Asp Leu Leu Pro Leu Val
 275 280 285
 Glu Gly Cys Thr Val Ser Thr Lys His Gly Met Val Lys Thr Asp His
 290 295 300
 Ile Leu Phe Ile Ala Ser Gly Ala Phe Gln Ile Ala Ser Pro Ser Asp
 305 310 315 320
 Leu Ile Pro Glu Leu Gln Gly Arg Leu Pro Ile Arg Val Glu Leu Gln
 325 330 335
 Ala Leu Thr Thr Glu Asp Phe Glu Arg Ile Leu Thr Glu Pro Ile Leu
 340 345 350
 Thr Pro Arg Leu Glu Asn
 355

<210> 6717

<211> 775

<212> PRT

<213> Enterobacter cloacae

<400> 6717

Val	Leu	Trp	Arg	Lys	Ile	His	Gln	Arg	Arg	Arg	Ile	Ile	Gln	Asn	Leu
1				5				10						15	
Thr	Asn	Val	Cys	Lys	Leu	Ile	Arg	Thr	Pro	Leu	Ser	Leu	Met	Cys	Ile
		20					25					30			
Leu	Thr	Arg	His	Phe	Ser	Ser	Gln	Glu	Asp	Ser	Met	Pro	Val	Ala	His
		35					40					45			
Val	Ala	Leu	Pro	Val	Pro	Leu	Pro	Arg	Thr	Phe	Asp	Tyr	Leu	Leu	Pro
	50					55					60				
Asp	Ser	Met	Ser	Ala	Lys	Ala	Gly	Cys	Arg	Val	Thr	Val	Pro	Phe	Gly
65					70					75					80
Lys	Gln	Gln	Arg	Val	Gly	Ile	Val	Val	Ser	Val	Ser	Asp	Lys	Ser	Glu
				85				90						95	
Leu	Pro	Leu	Asn	Glu	Leu	Lys	Ser	Val	Glu	Val	Leu	Asp	Ser	Glu	
			100					105					110		
Pro	Val	Tyr	Ser	Thr	Ser	Thr	Trp	Arg	Leu	Leu	Leu	Trp	Ala	Ala	Asp
		115					120						125		
Tyr	Tyr	His	His	Pro	Ile	Gly	Asp	Val	Leu	Phe	His	Ala	Leu	Pro	Ile
	130					135						140			
Met	Leu	Arg	Gln	Gly	Lys	Ser	Ala	Ser	His	Ala	Pro	Met	Trp	Tyr	Trp
145					150					155					160
Phe	Ala	Thr	Glu	Gln	Gly	Gln	Ala	Val	Asp	Ile	Asn	Ser	Leu	Lys	Arg
				165					170						175
Ser	Gln	Lys	Gln	Gln	Gln	Ala	Leu	Ala	Ala	Leu	Arg	Gln	Gly	Lys	Ile
			180					185					190		
Trp	Arg	His	Gln	Val	Asp	Glu	Leu	Glu	Val	Ser	Glu	Thr	Ala	Leu	Gln
		195					200						205		
Ala	Leu	Arg	Lys	Lys	Gly	Leu	Ser	Glu	Leu	Ala	Ser	Glu	Ala	Pro	Ala
	210					215						220			
Leu	His	Asp	Trp	Arg	Asp	Gly	Phe	Ser	Val	Ser	Gly	Asp	Arg	Leu	Arg
225					230					235					240
Leu	Asn	Thr	Glu	Gln	Ala	Thr	Ala	Val	Gly	Ala	Ile	His	Ser	Ala	Ala
				245						250					255
Asp	Arg	Phe	Ser	Ala	Trp	Leu	Leu	Ala	Gly	Val	Thr	Gly	Ser	Gly	Lys
			260					265					270		
Thr	Glu	Val	Tyr	Leu	Ser	Val	Leu	Glu	Asn	Val	Leu	Ala	Gln	Gly	Lys
		275					280						285		
Gln	Ala	Leu	Val	Met	Val	Pro	Glu	Ile	Gly	Leu	Thr	Pro	Gln	Thr	Ile
	290					295						300			
Ala	Arg	Phe	Arg	Glu	Arg	Phe	Asn	Ala	Pro	Val	Glu	Val	Leu	His	Ser
305					310					315					320
Gly	Leu	Asn	Asp	Ser	Glu	Arg	Leu	Ser	Ala	Trp	Leu	Lys	Ala	Lys	Asn
				325						330				335	
Gly	Glu	Ala	Ala	Ile	Val	Ile	Gly	Thr	Arg	Ser	Ser	Leu	Phe	Thr	Pro
			340					345					350		
Phe	Lys	Asn	Leu	Gly	Val	Ile	Val	Ile	Asp	Glu	Glu	His	Asp	Ser	Ser
		355					360					365			
Tyr	Lys	Gln	Gln	Glu	Gly	Trp	Arg	Tyr	His	Ala	Arg	Asp	Leu	Ala	Val
	370					375						380			
Tyr	Arg	Ala	His	Ser	Glu	Gln	Ile	Pro	Ile	Ile	Leu	Gly	Ser	Ala	Thr
385					390						395				400
Pro	Ala	Leu	Glu	Thr	Leu	His	Asn	Val	Arg	Gln	Arg	Lys	Tyr	His	Met
				405					410					415	
Leu	Arg	Leu	Thr	Arg	Arg	Ala	Gly	Asn	Ala	Arg	Pro	Ala	Ile	Gln	His
			420					425					430		

Val Leu Asp Leu Lys Gly Gln Gln Val Gln Ala Gly Leu Ala Pro Ala
 435 440 445
 Leu Ile Ser Arg Met Arg Gln His Leu Gln Ala Gly Asn Gln Val Ile
 450 455 460
 Leu Phe Leu Asn Arg Arg Gly Phe Ala Pro Ala Leu Leu Cys His Asp
 465 470 475 480
 Cys Gly Trp Ile Ala Glu Cys Pro Arg Cys Asp His Tyr Tyr Thr Phe
 485 490 495
 His Gln Ala Gln Arg His Leu Arg Cys His His Cys Asp Ser Gln Arg
 500 505 510
 Pro Val Pro Arg Gln Cys Pro Ser Cys Gly Ser Thr His Ile Val Pro
 515 520 525
 Val Gly Leu Gly Thr Glu Gln Leu Glu Gln Ala Leu Ala Pro Phe Phe
 530 535 540
 Pro Asp Val Pro Ile Ser Arg Ile Asp Arg Asp Thr Thr Ser Arg Lys
 545 550 555 560
 Gly Ala Leu Glu Gln Gln Leu Ala Glu Val His Arg Gly Gly Ala Arg
 565 570 575
 Ile Leu Ile Gly Thr Gln Met Leu Ala Lys Gly His His Phe Pro Asp
 580 585 590
 Val Thr Leu Val Ala Leu Leu Asp Val Asp Gly Ala Leu Phe Ser Ala
 595 600 605
 Asp Phe Arg Ser Ala Glu Arg Phe Ala Gln Leu Tyr Thr Gln Val Ala
 610 615 620
 Gly Arg Ala Gly Arg Ala Gly Lys Gln Gly Glu Val Val Leu Gln Thr
 625 630 635 640
 His His Pro Glu His Pro Leu Leu Gln Thr Leu Leu His Lys Gly Tyr
 645 650 655
 Asp Ala Phe Ala Asp Gln Ala Leu Ala Glu Arg Gln Thr Met Gln Leu
 660 665 670
 Pro Pro Trp Thr Ser His Val Ile Ile Arg Ala Glu Asp His Asn Asn
 675 680 685
 Gln Gln Ala Pro Leu Phe Leu Gln Gln Leu Arg Asn Leu Leu Gln Ala
 690 695 700
 Ser Pro Leu Val Asp Asn Gln Leu Trp Ile Leu Gly Pro Val Pro Ala
 705 710 715 720
 Leu Ala Pro Lys Arg Gly Gly Arg Phe Arg Trp Gln Leu Leu Leu Gln
 725 730 735
 His Pro Ser Arg Ile Arg Leu Gln Gln Ile Val Ser Gly Thr Leu Ala
 740 745 750
 Leu Ile Asn Thr Leu Pro Glu Ala Arg Lys Val Lys Trp Val Leu Asp
 755 760 765
 Val Asp Pro Ile Glu Gly
 770 775

<210> 6718

<211> 109

<212> PRT

<213> Enterobacter cloacae

<400> 6718

Arg Tyr Leu Met Ala Glu Trp Ser Gly Glu Tyr Ile Ser Pro Tyr Ala
 1 5 10 15
 Glu His Gly Lys Lys Ser Glu Gln Val Lys Lys Ile Thr Val Ser Ile
 20 25 30
 Pro Leu Lys Val Leu Lys Ile Leu Thr Asp Glu Arg Thr Arg Arg Gln
 35 40 45
 Val Asn Asn Leu Arg His Ala Thr Asn Ser Glu Leu Leu Cys Glu Ala
 50 55 60
 Phe Leu His Ala Phe Thr Gly Gln Pro Leu Pro Asn Asp Asp Asp Leu
 65 70 75 80

Arg Lys Glu Arg Ser Asp Glu Ile Pro Glu Glu Ala Lys Val Ile Met
 85 90 95
 Arg Glu Leu Gly Ile Asp Pro Glu Thr Trp Glu Tyr
 100 105

<210> 6719

<211> 332

<212> PRT

<213> Enterobacter cloacae

<400> 6719

Arg Thr Asn Lys Tyr Ser Glu Thr Ile Val Ala Gln Arg Asp Tyr Val
 1 5 10 15
 Arg Arg Gly Gln Pro Ala Pro Ser Arg Arg Lys Lys Ser Ser Ser Lys
 20 25 30
 Ser Lys Gln Arg Ser Leu Ser Ala Val Ser Pro Ala Met Val Ala Ile
 35 40 45
 Ala Ala Ala Val Leu Val Ala Phe Ile Gly Gly Leu Tyr Phe Ile Thr
 50 55 60
 His His Lys Lys Glu Glu Ser Glu Ala Leu Gln Gly Asn Lys Val Val
 65 70 75 80
 Gly Asn Gly Leu Pro Pro Lys Pro Glu Glu Arg Trp Arg Tyr Ile Lys
 85 90 95
 Glu Leu Glu Ser Arg Gln Pro Gly Val Arg Ala Pro Thr Glu Pro Ser
 100 105 110
 Ala Gly Gly Glu Val Lys Asn Ala Asp Gln Leu Thr Asp Glu Gln Arg
 115 120 125
 Gln Leu Leu Ala Gln Met Gln Ala Asp Met Arg Gln Gln Pro Thr Gln
 130 135 140
 Leu Asn Glu Val Pro Trp Asn Glu Gln Thr Pro Ala Gln Arg Gln Gln
 145 150 155 160
 Thr Leu Gln Arg Gln Arg Gln Ala Gln Gln Gln Thr Gln Gln Gln Gln
 165 170 175
 Trp Thr Gln Thr Gln Pro Val Gln Gln Pro Arg Ser Gln Pro Gln Gln
 180 185 190
 Gln Thr Arg Thr Val Gln Thr Gln Pro Val Gln Gln Gln Pro Lys Ala
 195 200 205
 Gln Pro Gln Lys Gln Thr Ala Gln Pro Tyr Gln Asp Leu Leu Gln Thr
 210 215 220
 Pro Ala His Thr Thr Ala Gln Gln Pro Lys Thr Gln Gln Ala Ala Pro
 225 230 235 240
 Val Thr Lys Glu Thr Glu Val Pro Lys Gln Thr Ala Glu Lys Lys Asp
 245 250 255
 Glu Arg Arg Trp Met Val Gln Cys Gly Ser Phe Lys Gly Ala Glu Gln
 260 265 270
 Ala Glu Thr Val Arg Ala Gln Leu Ala Phe Glu Gly Phe Asp Ser Arg
 275 280 285
 Ile Thr Thr Asn Asn Gly Trp Asn Arg Val Val Ile Gly Pro Val Lys
 290 295 300
 Gly Lys Glu Asn Ala Asp Gly Thr Ile Ser Arg Leu Lys Val Ala Gly
 305 310 315 320
 His Thr Asn Cys Ile Arg Leu Ala Ser Gly Gly
 325 330

<210> 6720

<211> 714

<212> PRT

<213> Enterobacter cloacae

<400> 6720

Leu Asn Gly Asp Gln His Ala Gly Leu Leu Val Leu Pro Gly Met Asp

1				5					10				15	
Pro	Asn	Ala	Cys	His	Leu	Pro	Asp	Leu	Arg	Val	Arg	Ala	Ile	Arg
			20					25				30		Ser
His	His	Gln	Leu	Tyr	Gly	Gln	Leu	Ile	Val	Val	Val	Gln	Arg	Gln
		35					40					45		Glu
Ile	Pro	Ala	Leu	Met	Thr	Met	Gln	Ala	Phe	Gln	Arg	Val	Arg	His
	50					55					60			Ala
Gln	Arg	His	Leu	Arg	Val	Arg	Leu	Gln	Arg	Leu	Pro	Glu	Cys	Leu
65					70					75				80
Glu	His	Val	Val	Phe	His	His	Ile	Ala	Gln	Ala	Arg	Gln	Phe	Gln
			85						90				95	Leu
Gly	Gly	Ile	Lys	Arg	His	Met	Ser	Ile	Phe	Pro	Leu	Pro	Gly	Phe
			100					105					110	Glu
Thr	Ala	Val	Arg	Met	Arg	Ala	His	Arg	Gln	His	Arg	Leu	Pro	Asp
		115					120					125		Ala
Gln	Pro	Ala	Lys	Gln	Ile	Asn	Arg	Gly	Arg	Ala	Asp	Gly	Gly	Asn
	130					135					140			Thr
Tyr	Val	Arg	Leu	Ala	Gly	Arg	Ile	Glu	Cys	Arg	Arg	Ser	Arg	Leu
145					150				155					Phe
Asn	Asn	Gly	Tyr	Val	Lys	Ser	Leu	Leu	Arg	Gln	Pro	Gln	Arg	Gln
			165						170					Cys
Ala	Ala	Asp	His	Thr	Ala	Ala	Asn	Asn	Gly	Asn	Phe	Gly	Val	Gln
			180					185					190	Glu
Cys	His	Gly	His	Tyr	Ser	Leu	Leu	Lys	Asn	Thr	Leu	Ser	Leu	Pro
		195				200					205			Asp
Phe	Cys	Gly	Pro	Glu	Val	Asp	Asn	Leu	His	Thr	Gly	His	Asn	Arg
	210					215					220			Thr
Lys	Ala	Leu	Gln	Tyr	Ala	Ala	Cys	Asn	Pro	Glu	Leu	Ser	Lys	Ser
225					230					235				Met
Thr	Lys	Lys	Leu	His	Ile	Lys	Thr	Trp	Gly	Cys	Gln	Met	Asn	Glu
			245						250					Tyr
Asp	Ser	Ser	Lys	Met	Ala	Asp	Leu	Leu	Asp	Thr	Thr	His	Gly	Tyr
			260				265						270	Gln
Leu	Thr	Glu	Asn	Ala	Lys	Glu	Ala	Asp	Val	Leu	Leu	Leu	Asn	Thr
		275					280					285		Cys
Ser	Ile	Arg	Glu	Lys	Ala	Gln	Glu	Lys	Val	Phe	His	Val	Leu	Gly
	290					295				300				Arg
Trp	Lys	Leu	Leu	Lys	Arg	Lys	Asn	Pro	Asp	Leu	Ile	Ile	Gly	Val
305					310					315				Gly
Gly	Cys	Val	Ala	Ser	Gln	Glu	Gly	Lys	Leu	Ile	Arg	Gln	Arg	Ala
			325						330					Pro
Tyr	Val	Asp	Ile	Val	Phe	Gly	Pro	Gln	Thr	Leu	His	Arg	Leu	Pro
		340					345						350	Glu
Met	Ile	Asn	Gln	Val	Arg	Gly	Ser	Arg	Ser	Pro	Val	Val	Asp	Val
		355					360					365		Ser
Phe	Pro	Glu	Ile	Glu	Lys	Phe	Asp	Arg	Leu	Pro	Glu	Pro	Arg	Ala
	370					375					380			Asp
Gly	Pro	Thr	Ala	Phe	Val	Ser	Ile	Met	Glu	Gly	Cys	Asn	Lys	Tyr
385					390				395					Cys
Thr	Tyr	Cys	Val	Val	Pro	Tyr	Thr	Arg	Gly	Glu	Glu	Val	Ser	Arg
			405						410					Pro
Ala	Asp	Asp	Ile	Leu	Phe	Glu	Ile	Ala	Gln	Leu	Ala	Ala	Gln	Gly
			420					425					430	Val
Arg	Glu	Val	Asn	Leu	Leu	Gly	Gln	Asn	Val	Asn	Ala	Trp	Arg	Gly
		435					440					445		Glu
Asn	Tyr	Asp	Gly	Thr	Thr	Gly	Ser	Phe	Ala	Glu	Leu	Leu	Arg	Leu
	450					455					460			Val
Ala	Ala	Ile	Asp	Gly	Ile	Asp	Arg	Ile	Arg	Phe	Thr	Thr	Ser	His
465					470					475				Pro
Met	Glu	Phe	Thr	Asp	Asp	Ile	Ile	Asp	Val	Tyr	Arg	Asp	Thr	Pro
			485						490					Glu

Leu Val Ser Phe Leu His Leu Pro Ile Gln Cys Gly Ser Asp Arg Val
 500 505 510
 Leu Asn Leu Met Gly Arg Pro His Thr Val Leu Glu Tyr Lys Ser Thr
 515 520 525
 Ile Arg Lys Leu Arg Glu Ala Arg Pro Asp Ile Gln Ile Ser Ser Asp
 530 535 540
 Phe Ile Val Gly Phe Pro Gly Glu Thr Ala Asp Asp Phe Glu Arg Thr
 545 550 555 560
 Met Lys Leu Ile Gly Glu Val Asn Phe Asp Val Ser Tyr Ser Phe Ile
 565 570 575
 Phe Ser Ala Arg Pro Gly Thr Pro Ala Ala Asp Met Val Asp Asp Val
 580 585 590
 Pro Glu Glu Glu Lys Lys Gln Arg Leu Tyr Ile Leu Gln Glu Arg Ile
 595 600 605
 Asn Gln Gln Ala Asn Ala Trp Ser Arg Arg Met Leu Gly Thr Val Gln
 610 615 620
 Arg Ile Leu Val Glu Gly Thr Ser Arg Lys Ser Ile Met Glu Leu Ser
 625 630 635 640
 Gly Arg Thr Glu Asn Asn Arg Val Val Asn Phe Glu Gly Thr Pro Asp
 645 650 655
 Met Ile Gly Lys Phe Val Asp Val Glu Ile Val Glu Val Leu Thr Asn
 660 665 670
 Ser Leu Arg Gly Lys Val Val Arg Thr Glu Asp Glu Met Gly Leu Arg
 675 680 685
 Ile Ala Gln Thr Pro Glu Ser Val Ile Ser Arg Thr Arg Lys Val Asn
 690 695 700
 Asp Ser Gly Val Gly Ile Tyr Gln Pro
 705 710

<210> 6721

<211> 158

<212> PRT

<213> Enterobacter cloacae

<400> 6721

Thr Glu Met Ser Gln Val Ile Leu Asp Leu Gln Leu Ala Cys Glu Asp
 1 5 10 15
 Asn Ser Gly Met Pro Glu Glu Ala Gln Phe Gln Lys Trp Leu Asp Ala
 20 25 30
 Val Ile Pro Gln Phe Gln Glu Glu Ser Glu Val Thr Ile Arg Leu Val
 35 40 45
 Asp Glu Ala Glu Ser His Glu Leu Asn Leu Thr Tyr Arg Gly Lys Asp
 50 55 60
 Lys Pro Thr Asn Val Leu Ser Phe Pro Phe Glu Ala Pro Pro Gly Ile
 65 70 75 80
 Glu Met Pro Leu Leu Gly Asp Leu Ile Ile Cys Arg Gln Val Val Glu
 85 90 95
 Gln Glu Ala Lys Glu Gln Gln Lys Pro Leu Glu Ala His Trp Ala His
 100 105 110
 Met Val Val His Gly Ser Leu His Leu Leu Gly Tyr Asp His Ile Glu
 115 120 125
 Asp Asp Glu Ala Glu Glu Met Glu Ser Leu Glu Thr Glu Ile Met Leu
 130 135 140
 Ala Leu Gly Tyr Glu Asp Pro Tyr Ile Ala Glu Lys Glu
 145 150 155

<210> 6722

<211> 321

<212> PRT

<213> Enterobacter cloacae

<400> 6722

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Ser Val Thr Asp Tyr His Ala Ala Ala Gln Gly His Ser Ala Ala Val
1      5      10      15
Asn Val Glu Leu Thr Arg Glu Pro Leu Thr Asn Ala Met Ser Asp Asp
      20      25      30
Asn Ser His Ser Ser Asp Thr Thr Thr Thr Lys Lys Gly Phe Phe Ser
      35      40      45
Leu Ile Leu Asn Gln Leu Phe His Gly Glu Pro Lys Asn Arg Asp Glu
      50      55      60
Leu Leu Glu Leu Ile Arg Asp Ser Gly Gln Asn Asp Leu Ile Asp Glu
65      70      75      80
Asp Thr Arg Glu Met Leu Glu Gly Val Met Asp Ile Ala Asp Gln Arg
      85      90      95
Val Arg Asp Ile Met Ile Pro Arg Ser Gln Met Ile Thr Leu Lys Arg
      100     105     110
Asn Gln Thr Leu Asp Glu Cys Leu Asp Val Ile Ile Glu Ser Ala His
      115     120     125
Ser Arg Phe Pro Val Ile Ser Glu Asp Lys Asp His Ile Glu Gly Ile
      130     135     140
Leu Met Ala Lys Asp Leu Leu Pro Phe Met Arg Ser Asp Ala Glu Ala
145     150     155     160
Phe Ser Met Glu Lys Val Leu Arg Pro Ala Val Val Val Pro Glu Ser
      165     170     175
Lys Arg Val Asp Arg Met Leu Lys Glu Phe Arg Ser Gln Arg Tyr His
      180     185     190
Met Ala Ile Val Ile Asp Glu Phe Gly Gly Val Ser Gly Leu Val Thr
      195     200     205
Ile Glu Asp Ile Leu Glu Leu Ile Val Gly Glu Ile Glu Asp Glu Tyr
      210     215     220
Asp Glu Glu Glu Asp Ile Asp Phe Arg Gln Leu Ser Arg His Thr Trp
225     230     235     240
Thr Val Arg Ala Leu Ala Ser Ile Glu Asp Phe Asn Asp Thr Phe Gly
      245     250     255
Thr Ser Phe Ser Asp Glu Glu Val Asp Thr Ile Gly Gly Leu Val Met
      260     265     270
Gln Ala Phe Gly His Leu Pro Ala Arg Gly Glu Thr Val Asp Ile Asp
      275     280     285
Gly Tyr Gln Phe Lys Val Ala Met Ala Asp Ser Arg Arg Ile Ile Gln
      290     295     300
Val His Val Arg Met Pro Asp Asp Ser Pro Val Pro Lys Leu Glu Asp
305     310     315     320

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<210> 6723

<211> 409

<212> PRT

<213> Enterobacter cloacae

<400> 6723

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Val Phe Thr Ser Arg Asp Pro Pro Gly Leu Pro Val Arg Gln Ala Leu
1      5      10      15
Tyr Phe Leu Ser Ser Pro Pro Ile Ser Thr Ala Thr Leu Ala Pro Leu
      20      25      30
Phe Cys Gly Val Asn Asn Phe Gly Asn Asp Arg Phe Ile Thr Pro Cys
      35      40      45
Gly His Arg Ser Val Asn Gln Leu Lys Arg Asn Ser Leu Asn Ile Asp
      50      55      60
Thr Arg Glu Ile Ser Leu Glu Pro Ala Asp Asn Ala Arg Leu Leu Ser
65      70      75      80
Leu Cys Gly Pro Phe Asp Asp Asn Ile Lys Gln Leu Glu Arg Arg Leu

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<210> 6724
<211> 256
<212> PRT
<213> Enterobacter cloacae
```

Gln 1	Ala	Cys	Ile	Thr 5	Leu	His	Ser	His	Cys 10	Ala	Arg	Tyr	Asn	Asn 15	Ile
Thr	Met	Gly	Ile 20	Tyr	Ala	Ser	Leu	Ala 25	Leu	Ile	Arg	Lys	Glu 30	Leu	Gly
Met	Gln	Leu	Arg 35	Lys	Leu	Ala	Thr 40	Ala	Met	Leu	Val	Met 45	Gly	Met	Ser
Ala	Gly 50	Val	Val	His	Ala	Glu 55	Asp	Ala	Pro	Ala	Ala 60	Gly	Ser	Thr	Leu
Asp 65	Lys	Ile	Ala	Lys 70	Asn	Gly	Val	Ile	Val 75	Val	Gly	His	Arg	Glu 80	Ser
Ser	Val	Pro	Phe	Ser 85	Tyr	Tyr	Asp	Asn 90	Thr	Gln	Lys	Val	Val 95	Gly	Tyr
Ser	Gln	Asp	Tyr	Ser	Asn	Ala	Ile	Val	Glu	Ala	Val	Lys	Lys	Lys	Leu


```
<210> 6725
<211> 513
<212> PRT
<213> Enterobacter cloacae
```

<400> 6725																
Met	Ala	Phe	Ala	Pro	Leu	Val	Glu	Arg	Gln	Arg	Val	Arg	Leu	Leu	Leu	
1				5					10					15		
Ala	Leu	Leu	Leu	Gly	Ala	Ser	Gly	Thr	Leu	Ala	Phe	Ser	Pro	Tyr	Asp	
			20					25					30			
Ile	Trp	Pro	Ala	Ala	Ile	Leu	Ser	Leu	Met	Gly	Leu	Gln	Gly	Leu	Thr	
		35					40					45				
Leu	Asn	Arg	Arg	Pro	Val	Gln	Ala	Ala	Ala	Ile	Gly	Tyr	Phe	Trp	Gly	
	50					55					60					
Leu	Gly	Leu	Phe	Gly	Ser	Gly	Ile	Asn	Trp	Val	Tyr	Val	Ser	Ile	Ala	
65					70					75					80	
Gln	Phe	Gly	Gly	Met	Pro	Gly	Pro	Val	Asn	Val	Phe	Leu	Val	Val	Leu	
				85					90					95		
Leu	Ala	Ala	Tyr	Leu	Ser	Leu	Tyr	Thr	Gly	Leu	Phe	Ala	Gly	Ile	Leu	
			100					105					110			
Ser	Arg	Leu	Trp	Pro	Lys	Thr	Thr	Trp	Leu	Arg	Val	Ala	Ile	Ala	Ala	
		115					120					125				
Pro	Val	Val	Trp	Gln	Ile	Thr	Glu	Phe	Leu	Arg	Gly	Trp	Val	Leu	Thr	
		130				135					140					
Gly	Phe	Pro	Trp	Leu	Gln	Phe	Gly	Tyr	Ser	Gln	Val	Asp	Gly	Pro	Leu	
145					150					155					160	
Lys	Gly	Leu	Ala	Pro	Val	Met	Gly	Val	Glu	Ala	Ile	Asn	Phe	Leu	Leu	
				165					170					175		
Met	Ile	Val	Ser	Gly	Leu	Leu	Val	Leu	Ala	Leu	Val	Thr	Arg	Asn	Trp	
			180					185					190			
Lys	Pro	Leu	Val	Ala	Ala	Leu	Ile	Leu	Phe	Ala	Leu	Pro	Phe	Pro	Leu	
		195					200					205				
Arg	Tyr	Ile	Gln	Trp	Phe	Thr	Leu	Glu	Pro	Ala	Arg	Ala	Thr	Gln	Val	
	210					215					220					
Ser	Leu	Val	Gln	Gly	Asp	Ile	Pro	Gln	Ser	Leu	Lys	Trp	Asp	Glu	Asn	
225					230					235					240	
Gln	Leu	Leu	Asn	Thr	Leu	Lys	Ile	Tyr	Ala	Asn	Ala	Thr	Glu	Lys	Val	
				245					250					255		
Met	Gly	Lys	Ser	Gln	Leu	Ile	Ile	Trp	Pro	Glu	Ser	Ala	Ile	Pro	Asp	
			260					265					270			
Leu	Glu	Ile	Asn	Gln	Gln	Pro	Phe	Leu	Lys	Met	Met	Asp	Asp	Leu	Leu	

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<210> 6726
<211> 396
<212> PRT
<213> Enterobacter cloacae
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<400> 6726															
Gly 1	Ile	Val	Thr	Met 5	Thr	Leu	Leu	Asn 10	Thr	Glu	Val	Ala	Val	Val 15	Gly
Gly	Gly	Met	Val	Gly	Gly	Ala	Leu	Ala 25	Leu	Gly	Leu	Ala	Gln 30	Gln	Gly
Phe	Asp	Val	Thr	Val	Ile	Glu	Gln	Ala 40	Ala	Pro	Pro	Ala	Phe 45	Asp	Pro
Ala	Ser	Gln	Pro	Asp	Val	Arg	Ile	Ser 55	Ala	Ile	Ser	Ala	Ala 60	Ser	Val
Asp 65	Leu	Leu	Arg	Gly	Leu	Gly	Val	Trp 70	Glu	Ala	Val	Leu	Ala	Met 80	Arg
Ala	His	Pro	Tyr	Ser 85	Arg	Leu	Glu	Thr 90	Trp	Glu	Trp	Glu	Asn 95	Ala	His
Val	Ser	Phe	Asp	Ala 100	Ala	Glu	Leu	Lys 105	Leu	Pro	Arg	Leu	Gly 110	Tyr	Met
Val	Glu	Asn 115	Val	Leu	Gln	Gln 120	Ala	Leu	Trp	Gln	Ala	Leu	Glu 125	Ala	
His	Pro	Lys	Val	Thr	Leu	Arg	Val	Pro	Asp	Ser	Leu	Lys	Gly	Leu	His
Arg 145	His	Glu	Gly	Gly	Tyr 150	Leu	Leu	Thr	Leu	Asp 155	Asn	Asn	Asp	Glu	Leu
Ala	Val	Lys	Leu	Val	Gly	Ala	Asp	Gly	Ala	Asn	Ser	Gln	Val	Arg	
Gln	Met	Ala	Gly	Ile	Gly	Ile	His	Ala	Trp	Gln	Tyr	Gln	Gln	Ser	Cys

180 185 190
 Met Leu Ile Thr Val Gln Ser Glu Asn Ala Pro Gly Glu Ser Thr Trp
 195 200 205
 Gln His Phe Thr Pro Asn Gly Pro His Ala Phe Leu Pro Leu Phe Asp
 210 215 220
 Asn Trp Ala Ser Leu Val Trp Tyr Asp Lys Pro Ala Arg Ile Arg Gln
 225 230 235 240
 Leu Gln Gly Leu Ser Met Asp Gln Leu Gln Arg Glu Ile Arg Gln His
 245 250 255
 Phe Pro Ser Arg Leu Gly Asn Val Thr Pro Val Ala Ala Gly Ala Phe
 260 265 270
 Pro Leu Met Arg Arg His Ala Leu Gln Tyr Ala Arg Glu Gly Leu Val
 275 280 285
 Leu Val Gly Asp Ala Ala His Thr Ile His Pro Leu Ala Gly Gln Gly
 290 295 300
 Val Asn Leu Gly Tyr Arg Asp Val Asp Ala Leu Leu Asp Val Leu Gly
 305 310 315 320
 Asn Ala Arg Ala His Ala Glu Ala Trp Ala Ser His Gln Val Leu Lys
 325 330 335
 Arg Tyr Gln Thr Arg Arg Met Ala Asp Asn Phe Ile Met Gln Ser Gly
 340 345 350
 Met Asp Leu Phe Tyr Ala Gly Phe Ser Asn Asp Val Gly Pro Val Arg
 355 360 365
 Ile Val Arg Asn Ile Gly Leu Met Ala Ala Glu Arg Ala Gly Gly Leu
 370 375 380
 Lys Arg Gln Ala Leu Lys Tyr Ala Leu Gly Leu
 385 390 395

<210> 6727

<211> 99

<212> PRT

<213> Enterobacter cloacae

<400> 6727

Gly Glu Gly Ile Arg Pro His Tyr Ser Glu Gln Gln Lys Gln Lys Ser
 1 5 10 15
 Pro Gln Ser Gly Leu Val Cys Leu Lys Trp Leu Gly Cys Arg Asp Ser
 20 25 30
 Asn Pro Gly Met Leu Val Ser Glu Thr Arg Ala Leu Pro Leu Gly Asp
 35 40 45
 Thr Pro Ile Ala Leu Asn Lys Leu Leu Asn Asp Phe Lys Val Ala Gly
 50 55 60
 Val Arg Gly Phe Glu Pro Arg Asn Ala Gly Ile Arg Ile Arg Cys Leu
 65 70 75 80
 Thr Ala Trp Arg Tyr Pro Asn Asn Val Gln Phe Thr Glu Ser Tyr Ser
 85 90 95
 Ile Thr

<210> 6728

<211> 82

<212> PRT

<213> Enterobacter cloacae

<400> 6728

Pro Val Leu Gln Ser Ser Met Ala Gly Val Pro Gly Phe Glu Pro Gly
 1 5 10 15
 Asn Ala Gly Ile Lys Asn Arg Cys Leu Thr Ala Trp Arg Tyr Pro Asn
 20 25 30
 Thr Ala Glu Asn Arg Met Ile Glu Glu Ile Trp Leu Gly Tyr Leu Asp
 35 40 45

Ser Asn Gln Gly Met Pro Val Ser Lys Thr Gly Ala Leu Pro Leu Gly
 50 55 60
 Asp Thr Pro Ser Val Gln Arg Leu Pro Gly Asn Gly Ala Gly Gly Glu
 65 70 75 80
 Thr

<210> 6729

<211> 82

<212> PRT

<213> Enterobacter cloacae

<400> 6729

Ser Lys Lys Tyr Gly Trp Gly Thr Trp Ile Arg Thr Arg Glu Cys Arg
 1 5 10 15
 Tyr Gln Lys Pro Val Pro Tyr Arg Leu Ala Ile Pro His Pro Cys Asn
 20 25 30
 Ala Tyr Leu Gly Met Val Arg Glu Ala Arg Leu Glu Leu Ala His Leu
 35 40 45
 Ala Ala Pro Glu Pro Lys Ser Gly Ala Ser Thr Asn Phe Ala Thr Pro
 50 55 60
 Ala Lys Lys Met Val Ala Thr Thr Gly Phe Glu Pro Val Thr Pro Ser
 65 70 75 80
 Leu

<210> 6730

<211> 126

<212> PRT

<213> Enterobacter cloacae

<400> 6730

Val Met Cys Ser Asn Gln Leu Ser Tyr Val Ala Ser Thr Ala Ile Phe
 1 5 10 15
 Asp Gly Trp Gly Thr Trp Ile Arg Thr Arg Glu Cys Arg Tyr Gln Lys
 20 25 30
 Pro Val Pro Tyr Arg Leu Ala Ile Pro Gln Tyr Arg Gly Glu Pro His
 35 40 45
 Asp Arg Arg Asn Met Ala Gly Val Pro Gly Phe Glu Pro Gly Asn Ala
 50 55 60
 Gly Ile Lys Asn Arg Cys Leu Thr Ala Trp Arg Tyr Pro Ile Arg Ala
 65 70 75 80
 Thr Leu Thr Trp Glu Trp Cys Gly Arg Arg Asp Leu Asn Ser His Thr
 85 90 95
 Leu Arg Arg Gln Asn Leu Asn Leu Val Arg Leu Pro Ile Ser Pro Leu
 100 105 110
 Pro Gln Lys Arg Trp Trp Leu Arg Arg Asp Ser Asn Leu
 115 120 125

<210> 6731

<211> 196

<212> PRT

<213> Enterobacter cloacae

<400> 6731

Phe Phe Cys Arg Lys Tyr Trp Val Lys Asn Met Gln Ile Gly Tyr Val
 1 5 10 15
 Arg Val Ser Thr Asn Asp Gln Asn Thr Asp Leu Gln Arg Gln Ala Leu
 20 25 30
 Glu Arg Ala Gly Cys Glu Gln Val Phe Glu Glu Lys Met Ser Gly Thr
 35 40 45

Val Ala Asn Arg Pro Ala Leu Lys Lys Leu Leu Gln Thr Leu Asn Glu
 50 55 60
 Gly Asp Thr Leu Val Val Trp Lys Leu Asp Arg Leu Gly Arg Ser Met
 65 70 75 80
 Arg Asn Leu Val Leu Leu Val Asp Glu Leu Arg Gln Arg Gly Ile His
 85 90 95
 Phe Lys Ser Leu Thr Asp Ser Ile Asp Thr Ser Ser Pro Met Gly Arg
 100 105 110
 Phe Ile Phe His Ile Met Ser Ala Leu Ala Glu Met Glu Arg Glu Leu
 115 120 125
 Ile Val Glu Arg Thr Arg Ala Gly Leu Ala Ala Arg Glu Lys Gly
 130 135 140
 Arg Ile Gly Gly Arg Arg Pro Lys Leu Thr Pro Glu Gln Trp Ala Gln
 145 150 155 160
 Ala Gly Arg Leu Ile Ala Asn Gly Val Asp Arg Lys Gln Val Ala Ile
 165 170 175
 Ile Tyr Asp Val Ala Val Cys Thr Leu Tyr Lys Lys Phe Pro Ala Ser
 180 185 190
 Lys Pro Ala
 195

<210> 6732

<211> 167

<212> PRT

<213> Enterobacter cloacae

<400> 6732

Thr Val Ala Thr Thr Lys Val Tyr Cys Ala Leu Thr Glu Thr Lys Leu
 1 5 10 15
 Leu Tyr Ile Lys Thr Val Leu Glu Val Cys Val Met Glu Phe Ile Arg
 20 25 30
 Pro Thr Glu Leu Arg Glu Ile Ile Ala Ile Pro Leu Tyr Ser Asp Leu
 35 40 45
 Val Gln Cys Gly Phe Pro Ser Pro Ala Ala Asp Tyr Val Glu Gln Arg
 50 55 60
 Ile Asp Leu Asn Glu Leu Leu Val Ser His Pro Ser Ser Thr Tyr Phe
 65 70 75 80
 Val Lys Ala Ala Gly Asp Ser Met Ile Glu Ala Gly Ile Ser Asp Gly
 85 90 95
 Asp Leu Leu Val Val Asp Ser Ser Arg Thr Val Glu His Gly Asp Ile
 100 105 110
 Val Ile Ala Ala Val Asp Gly Glu Phe Thr Val Lys Arg Leu Gln Leu
 115 120 125
 Arg Pro Thr Val Gln Leu Asn Pro Met Asn Gly Ala Tyr Ser Pro Ile
 130 135 140
 Val Val Gly Ser Glu Asp Thr Leu Asp Val Phe Gly Val Val Thr Phe
 145 150 155 160
 Ile Val Lys Ser Ala Ser
 165

<210> 6733

<211> 177

<212> PRT

<213> Enterobacter cloacae

<400> 6733

Gly Ser Phe Gln Pro Arg Gly Glu Asp Trp Ser Met Asp Phe Val Met
 1 5 10 15
 Asp Ala Leu Ser Thr Gly Arg Arg Ile Lys Cys Leu Thr Cys Val Asp
 20 25 30
 Asp Phe Thr Lys Glu Cys Leu Thr Val Thr Val Ala Phe Gly Ile Ser

	35		40		45										
Gly	Val	Gln	Val	Thr	Arg	Ile	Leu	Asp	Ser	Ile	Ala	Leu	Phe	Arg	Gly
	50					55					60				
Tyr	Pro	Ala	Thr	Ile	Arg	Thr	Asp	Gln	Gly	Pro	Glu	Phe	Thr	Cys	Arg
65					70				75					80	
Ala	Leu	Asp	Gln	Trp	Ala	Phe	Glu	His	Gly	Val	Glu	Leu	Arg	Leu	Ile
			85						90					95	
Gln	Pro	Gly	Lys	Pro	Thr	Gln	Asn	Gly	Phe	Ile	Glu	Ser	Phe	Asn	Gly
		100						105					110		
Arg	Phe	Arg	Asp	Glu	Cys	Leu	Asn	Glu	His	Trp	Phe	Ser	Asp	Ile	Val
	115						120					125			
His	Ala	Arg	Lys	Ile	Ile	Asn	Asp	Trp	Arg	Gln	Asp	Tyr	Asn	Glu	Cys
	130					135					140				
Arg	Pro	His	Ser	Thr	Leu	Asn	Tyr	Gln	Thr	Pro	Ser	Glu	Phe	Ala	Ala
145					150					155					160
Gly	Trp	Arg	Lys	Gly	His	Ser	Glu	Asn	Glu	Asp	Ser	Asp	Val	Thr	Asn
			165						170					175	

<210> 6734

<211> 215

<212> PRT

<213> Enterobacter cloacae

<400> 6734

Ser	Ser	Glu	Ala	Leu	Met	Asn	Gln	Thr	Gln	Phe	Gln	Lys	Ala	Ala	Gly
1				5					10					15	
Ile	Ser	Ala	Gly	Leu	Ser	Ala	Arg	Trp	Phe	Pro	His	Ile	Asp	Ala	Ala
		20						25					30		
Met	Lys	Glu	Tyr	Gly	Ile	Thr	Thr	Pro	Leu	Asp	Gln	Ala	Met	Phe	Ile
		35					40					45			
Ala	Gln	Met	Gly	His	Glu	Ser	Thr	Arg	Phe	Thr	Arg	Val	Val	Glu	Asn
	50					55					60				
Leu	Asn	Tyr	Ala	Ala	Glu	Asn	Leu	Val	Pro	Thr	Phe	Gly	Ser	His	Arg
65					70				75					80	
Ile	Thr	Pro	Gln	Gln	Ala	Ala	Ala	Leu	Gly	Arg	Thr	Ala	Ala	His	Pro
			85						90					95	
Ala	Asn	Gln	Lys	Ala	Ile	Ala	Asn	Leu	Val	Tyr	Gly	Gly	Glu	Trp	Gly
		100					105					110			
Lys	Glu	His	Leu	Gly	Asn	Gln	Val	Ala	Gly	Asp	Gly	Trp	Lys	Tyr	Arg
	115					120						125			
Gly	Arg	Gly	Leu	Lys	Gln	Val	Thr	Gly	Leu	Ser	Asn	Tyr	His	Ser	Cys
	130				135						140				
Gly	Tyr	Ala	Leu	Lys	Leu	Asp	Leu	Val	Thr	His	Pro	Glu	Leu	Leu	Glu
145				150					155						160
Gln	Asp	Glu	Tyr	Ala	Ala	Arg	Ser	Ala	Ala	Trp	Phe	Tyr	Ala	Ser	Arg
			165					170						175	
Gly	Cys	Leu	Leu	His	Ser	Gly	Asp	Val	Glu	Arg	Val	Thr	Leu	Leu	Ile
		180					185					190			
Asn	Gly	Gly	Arg	Asn	Gly	Leu	Asp	Lys	Arg	Arg	Glu	Leu	Phe	Asn	Leu
	195					200					205				
Ala	Lys	Ser	Val	Leu	Val										
	210					215									

<210> 6735

<211> 341

<212> PRT

<213> Enterobacter cloacae

<400> 6735

Gly Arg Phe Phe Ile Gly Val Tyr Met Ala Lys Pro Asp Trp Gly Glu
 1 5 10 15
 Leu Gln Gln Arg Phe Leu Ser Glu His Ala Ala Thr Gly Val Ser Pro
 20 25 30
 Lys Glu Trp Cys Glu Ala Gln Gly Leu Asn Tyr Ala Thr Ala Arg Arg
 35 40 45
 Tyr Ile Lys Lys Pro Ser Ala Gln Ser Val Gln Lys Ser Ala Gln Lys
 50 55 60
 Lys Val Arg Thr Ala Gln Lys Glu Gln Ser Ala Glu Glu Leu Val Asp
 65 70 75 80
 Asp Asp Gly Leu Thr Ala Gln Gln Arg Arg Phe Val Ala Glu Tyr Leu
 85 90 95
 Lys Asp Gly Asn Ala Thr Gln Ala Ala Ile Arg Ala Gly Tyr Ser Lys
 100 105 110
 Lys Ser Ala Glu Gln Ile Gly Tyr Gln Leu Leu Gln Lys Thr Ser Val
 115 120 125
 Ala Gln Ala Ile Ala Gln Gln Gln Lys Ala Ser Ile Ala Arg Thr Leu
 130 135 140
 Gly Ser Ala Asp Glu Val Leu Ala Gln Met Trp Gln Leu Ala Thr Phe
 145 150 155 160
 Asp Ala Asn Gln Leu Ser Gln Tyr Arg Arg Gly Ala Cys Arg Tyr Cys
 165 170 175
 Trp Gly Phe Gly His His Tyr Gln Trp Arg Asp Ala Val Glu Phe Glu
 180 185 190
 Glu Lys Arg Leu Glu Ala Val Glu Arg Asp Arg Arg Glu Pro Glu Asp
 195 200 205
 Ser Gly Gly Tyr Gly Tyr Asp His Asn Arg Glu Pro Asn Pro Glu Cys
 210 215 220
 Pro Arg Cys Asn Gly Asp Gly Ile Gly Gln Pro Tyr Phe Pro Asp Thr
 225 230 235 240
 Arg Lys Leu Pro Ala Val Ser Arg Leu Ala Tyr Ser Gly Val Lys Val
 245 250 255
 Gly Lys Asn Gly Val Glu Ile Thr Ala Ile Ser Arg Glu Arg Met Phe
 260 265 270
 Glu Ala Val Met Lys Arg Leu Gly Leu Ala Asp Ser Glu Phe Ala Gln
 275 280 285
 Arg Leu Gln Gln Ile Glu Ile Asp Arg Arg Leu Leu Glu Val Glu Lys
 290 295 300
 Leu Arg Lys Glu Leu Ala Gly Asp Gly Asp Asp Glu Pro Thr Pro
 305 310 315 320
 Val Gln Ile Asn Ile Asn Val Val Asp Ala Arg Ala Glu Asp Gly Asp
 325 330 335
 Gln Pro Asp Thr
 340

<210> 6736

<211> 433

<212> PRT

<213> Enterobacter cloacae

<400> 6736

Leu Leu Ser Leu Leu Asn Arg Pro Ala Asp Met Phe Ala Leu Cys Asp
 1 5 10 15
 Val Asn Ser Phe Tyr Ala Ser Cys Glu Thr Val Phe Arg Pro Asp Leu
 20 25 30
 Arg Gly Arg Pro Val Val Val Leu Ser Asn Asn Asp Gly Cys Val Ile
 35 40 45
 Ala Arg Ser Ala Glu Ala Lys Ala Ala Gly Ile Ala Met Gly Glu Pro
 50 55 60
 Phe Phe Lys Gln Lys Glu Leu Phe Arg Arg Ala Gly Val Val Cys Phe
 65 70 75 80

Ser Ser Asn Tyr Glu Leu Tyr Ala Asp Met Ser Asn Arg Val Met Thr
 85 90 95
 Thr Leu Glu Glu Met Ser Pro Arg Val Glu Ile Tyr Ser Ile Asp Glu
 100 105 110
 Ala Phe Cys Asp Leu Thr Gly Val Arg Ser Cys Arg Asp Leu Thr Asp
 115 120 125
 Phe Gly Lys Glu Ile Arg Ala Thr Val Leu Lys Arg Thr His Leu Thr
 130 135 140
 Val Gly Val Gly Ile Ala Gln Thr Lys Thr Leu Ala Lys Leu Ala Asn
 145 150 155 160
 His Ala Ala Lys Lys Trp Gln Arg Gln Thr Gly Gly Val Val Asp Leu
 165 170 175
 Ser Asn Ile Asp Arg Gln Arg Arg Leu Leu Ala Ile Val Pro Val Glu
 180 185 190
 Asp Val Trp Gly Val Gly Arg Arg Ile Ile Lys Lys Leu Asn Ala Met
 195 200 205
 Gly Ile Lys Thr Ala Leu Asp Leu Ser Glu Gln Ser Thr Trp Ile Ile
 210 215 220
 Arg Lys His Phe Asn Val Val Leu Glu Gly Thr Val Arg Glu Leu Arg
 225 230 235 240
 Gly Glu Pro Cys Leu Glu Leu Glu Glu Phe Ala Pro Ser Lys Gln Glu
 245 250 255
 Ile Val Cys Ser Arg Ser Phe Gly Glu Arg Val Thr Glu Tyr Glu Gln
 260 265 270
 Met Arg Gln Ala Ile Cys Ser Tyr Ala Ala Arg Gly Ala Glu Lys Leu
 275 280 285
 Arg Gly Glu His Gln Tyr Cys Arg Phe Ile Ser Ala Phe Val Lys Thr
 290 295 300
 Ser Pro Phe Ala Leu Asn Glu Pro Tyr Tyr Gly Asn Ser Ala Ser Met
 305 310 315 320
 Lys Leu Leu Thr Pro Thr Gln Asp Thr Arg Asp Ile Phe Asn Ala Ala
 325 330 335
 Val Lys Cys Leu Asp Lys Ile Trp Lys Asp Gly His Arg Tyr Gln Lys
 340 345 350
 Ala Gly Ile Met Leu Gly Asp Phe Phe Ser Gln Gly Val Ala Gln Leu
 355 360 365
 Asn Leu Phe Asp Glu Asn Ala Pro Arg Ala Gly Ser Glu Arg Leu Met
 370 375 380
 Glu Val Leu Asp His Leu Asn Ala Lys Asp Gly Lys Gly Thr Leu Tyr
 385 390 395 400
 Phe Ala Gly Gln Gly Ile Gln Gln Gln Trp Gln Met Lys Arg Ser Met
 405 410 415
 Leu Ser Pro Arg Tyr Thr Thr Arg Phe Ser Asp Leu Leu His Val Arg
 420 425 430

<210> 6737

<211> 120

<212> PRT

<213> Enterobacter cloacae

<400> 6737

Thr Ser Leu Ala Ala Trp Pro Gly Asp Met Leu Arg Arg Leu Met Val
 1 5 10 15
 Arg Met Glu Lys Gly Arg Arg Gln Glu Thr Ala Leu Leu His Ser Pro
 20 25 30
 Ser Arg Arg Asp Ala Glu Gly Phe Leu Ile Val Thr Ser Ala Ala Asp
 35 40 45
 Lys Gly Leu Val Asp Ile His Asp Arg Arg Pro Leu Val Leu Ser Pro
 50 55 60

Glu Val Ala Leu Glu Trp Met Arg Gln Asp Val Gly Gly Lys Lys Ala
 65 70 75 80
 Glu Glu Leu Ala Ser Asp Gly Val Val Pro Thr Glu Lys Phe Ile Trp
 85 90 95
 His Ala Ile Ser Arg Ala Val Gly Asn Thr Ala Asn Asn His Phe Ser
 100 105 110
 Leu Ile Glu Ser Ile Asn Leu
 115 120

<210> 6738

<211> 212

<212> PRT

<213> Enterobacter cloacae

<400> 6738

Asn Val Gly Leu Gly Ser Ser Ala Thr Lys Asp Val Gly Thr Asp Ser
 1 5 10 15
 Gly Asn Val Met Gln Val Gly Ala Phe Gly Val Gly Thr Tyr Gln Ala
 20 25 30
 Pro Arg Pro Asn Asp Ala Asn Ser Ser Phe Ile Ser Asp Ala Asp Gly
 35 40 45
 Asn Thr Ser Trp Ala Pro Ala Asn Gly Cys Gly Tyr Gln Ser Ser Tyr
 50 55 60
 Asn Thr Gln Arg Ile Ala Gln Met Trp Val Thr Thr Gly Gly Ala Gly
 65 70 75 80
 Tyr Cys Arg Phe Leu Leu Asn Thr Asn Pro Gln Thr Ala Lys Thr Asp
 85 90 95
 Ala Pro Trp Thr Val Phe Gln Ser Ala Gly Thr Ser Asp Ile Asn Phe
 100 105 110
 Lys Lys Val Thr Gly Asp Leu Asp Leu Asn Glu Ser Leu Ser Asn Ile
 115 120 125
 Ala Ala Met Asp Phe Lys Thr Phe Tyr Tyr Leu Ala Asp Glu Asp Lys
 130 135 140
 Val Ile Arg Arg Gly Val Ile Ala Gln Glu Leu Glu Lys Ile Asp Pro
 145 150 155 160
 Gln Tyr Val His Ser Ala Glu Glu Ser Gly Lys Met Thr Leu Asp Leu
 165 170 175
 Asn Pro Leu Val Leu Asp Ala Leu Ala Ala Ile Lys Ala Leu Thr Ile
 180 185 190
 Arg Val Arg Glu Leu Glu Asn Glu Ala Gln Ala Val Val Pro Val Ser
 195 200 205
 Ser Ala Asp
 210

<210> 6739

<211> 106

<212> PRT

<213> Enterobacter cloacae

<400> 6739

Leu Glu Val Ser Met Cys Gly Arg Phe Ala Gln Ala Gln Thr Arg Glu
 1 5 10 15
 Glu Tyr Leu Val Tyr Leu Ala Asp Glu Ala Asp Arg Asp Ile Ala Tyr
 20 25 30
 Asp Pro Glu Pro Ile Gly Arg Tyr Asn Val Ala Pro Gly Thr Lys Val
 35 40 45
 Leu Leu Leu Ser Glu Arg Asp Glu Gln Leu His Leu Asp Pro Val Leu
 50 55 60
 Trp Ser Tyr Ala Pro Gly Trp Trp Asp Lys Pro Pro Leu Ile Asn Ala
 65 70 75 80
 Arg Ile Glu Thr Thr Ala Thr Ser Arg Met Phe Lys Pro Leu Trp Gln

85 90 95
 His Gly Arg Ala Ile Cys Phe Ala Asp
 100 105

<210> 6740

<211> 382

<212> PRT

<213> Enterobacter cloacae

<400> 6740

Ser Lys Arg Ile Asp Val Lys Val Leu Thr Val Phe Gly Thr Arg Pro
 1 5 10 15
 Glu Ala Ile Lys Met Ala Pro Leu Val His Ala Leu Ala Arg Asp Pro
 20 25 30
 Asp Ile Glu Ala Lys Val Cys Val Thr Ala Gln His Arg Glu Met Leu
 35 40 45
 Asp Gln Val Leu Thr Leu Phe Ser Ile Val Pro Asp Tyr Asp Leu Asn
 50 55 60
 Ile Met Lys Pro Gly Gln Gly Leu Thr Glu Ile Thr Cys Arg Ile Leu
 65 70 75 80
 Gln Glu Leu Lys Pro Ile Leu Glu Ser Phe Lys Pro Asp Val Val Leu
 85 90 95
 Val His Gly Asp Thr Thr Thr Thr Val Ala Thr Ser Leu Ala Ala Phe
 100 105 110
 Tyr Gln Arg Ile Pro Val Gly His Ile Glu Ala Gly Leu Arg Thr Gly
 115 120 125
 Asn Leu Tyr Ser Pro Trp Pro Glu Glu Ala Asn Arg Thr Leu Thr Gly
 130 135 140
 His Leu Ala Met Tyr His Phe Ala Pro Thr Glu Asn Ser Arg Gln Asn
 145 150 155 160
 Leu Leu Arg Glu Asn Ile Ser Asp Ser Lys Ile Phe Val Thr Gly Asn
 165 170 175
 Thr Val Ile Asp Ala Leu Ile Trp Val Arg Asp Arg Val Leu Ala Asn
 180 185 190
 Ser Glu Leu Gln Ala Glu Leu Ala Ala Arg Tyr Pro Phe Leu Asn Asn
 195 200 205
 Gly Lys Lys Thr Ile Leu Val Thr Gly His Arg Arg Glu Ser Phe Gly
 210 215 220
 Arg Gly Phe Glu Gln Ile Cys His Ala Leu Ala Glu Ile Ala Ala Gln
 225 230 235 240
 Asn Glu Asp Val Gln Ile Val Tyr Pro Val His Leu Asn Pro Asn Val
 245 250 255
 Ser Glu Pro Val Asn Arg Ile Leu Gly His Val Glu Asn Val Leu Leu
 260 265 270
 Ile Glu Pro Gln Asp Tyr Leu Pro Phe Val Trp Leu Met Asn His Ala
 275 280 285
 Trp Leu Ile Leu Thr Asp Ser Gly Gly Ile Gln Glu Glu Ala Pro Ser
 290 295 300
 Leu Gly Lys Pro Val Leu Val Met Arg Glu Thr Thr Glu Arg Pro Glu
 305 310 315 320
 Ala Val Thr Ala Gly Thr Val Arg Leu Val Gly Thr Asp Pro Arg Arg
 325 330 335
 Ile Val Glu Glu Val Thr Arg Leu Leu His Asp Asp Glu Glu Tyr Gln
 340 345 350
 Ala Met Ser Arg Ala His Asn Pro Tyr Gly Asp Gly Gln Ala Cys Gly
 355 360 365
 Arg Ile Leu His Ala Leu Lys His Asn Arg Val Thr Leu
 370 375 380

<210> 6741

<211> 422

<212> PRT

<213> Enterobacter cloacae

<400> 6741

Val Ile Ser Pro Asp Met Ser Leu Ala Lys Ala Ser Val Trp Thr Ala
 1 5 10 15
 Ala Ser Thr Leu Val Lys Ile Gly Ala Gly Leu Leu Val Val Lys Leu
 20 25 30
 Leu Ala Val Ser Phe Gly Pro Ser Gly Val Gly Leu Ala Gly Asn Phe
 35 40 45
 Arg Gln Leu Val Thr Val Leu Gly Val Leu Ala Gly Ala Gly Ile Phe
 50 55 60
 Asn Gly Val Thr Lys Tyr Val Ala Gln His His Asp Asp Ala Glu Lys
 65 70 75 80
 Leu Arg Thr Val Val Gly Thr Ser Ser Ala Met Val Leu Gly Phe Ser
 85 90 95
 Thr Leu Leu Ala Val Val Phe Leu Leu Ala Ala Ala Pro Ile Ser Gln
 100 105 110
 Gly Leu Phe Gly His Thr His Tyr Gln Gly Leu Val Arg Leu Val Ala
 115 120 125
 Leu Val Gln Met Gly Ile Ala Trp Ala Asn Leu Leu Leu Ala Leu Met
 130 135 140
 Lys Gly Phe Arg Asp Ala Ala Gly Asn Ala Leu Ala Leu Ile Leu Gly
 145 150 155 160
 Ser Ile Ile Gly Val Ile Ala Tyr Tyr Phe Cys Tyr Arg Leu Gly Gly
 165 170 175
 Tyr Glu Gly Ala Leu Leu Gly Leu Ala Leu Val Pro Ala Leu Val Val
 180 185 190
 Ile Pro Ala Ala Phe Met Leu Met Arg Arg Gly Asn Val Pro Leu Ser
 195 200 205
 Tyr Leu Lys Pro Gln Trp Asp Lys Ile Leu Ala Gly Gln Leu Gly Lys
 210 215 220
 Phe Thr Leu Met Ala Leu Ile Thr Ser Val Thr Leu Pro Val Ala Tyr
 225 230 235 240
 Val Met Met Arg Asn Leu Leu Ala Ala His Tyr Ser Trp Asp Glu Val
 245 250 255
 Gly Ile Trp Gln Gly Val Ser Ser Ile Ser Asp Ala Tyr Leu Gln Phe
 260 265 270
 Ile Thr Ala Ser Phe Ser Val Tyr Leu Leu Pro Thr Leu Ser Arg Leu
 275 280 285
 Thr Ser Arg Gln Asp Ile Thr Arg Glu Ile Phe Arg Ser Leu Arg Phe
 290 295 300
 Val Leu Pro Ala Val Ala Ile Ala Ser Phe Thr Val Trp Leu Leu Arg
 305 310 315 320
 Asp Phe Ala Ile Trp Leu Leu Phe Ser Ala Lys Phe Thr Ala Met Arg
 325 330 335
 Asp Leu Phe Ala Trp Gln Leu Val Gly Asp Val Leu Lys Val Gly Ala
 340 345 350
 Tyr Val Phe Gly Tyr Leu Val Ile Ala Lys Ala Ser Leu Arg Leu Tyr
 355 360 365
 Ile Leu Ala Glu Ile Gly Gln Phe Ala Leu Leu Thr Ala Phe Ser His
 370 375 380
 Trp Leu Ile Pro Thr His Gly Ala Leu Gly Ala Ala Gln Ala Tyr Met
 385 390 395 400
 Ala Thr Tyr Ile Val Tyr Phe Ala Ala Cys Cys Gly Val Phe Leu Leu
 405 410 415
 Trp Arg Lys Arg Ala
 420

<210> 6742

<211> 327

<212> PRT

<213> Enterobacter cloacae

<400> 6742

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Phe Arg Val Leu Trp Gln Gly Arg Leu Trp Ile Val Gly Ile Ala Leu
1      5      10      15
Gly Phe Ala Leu Leu Ala Leu Ala Tyr Thr Phe Phe Ala Lys Gln Glu
20      25      30
Trp Ser Ala Thr Ala Ile Thr Asp Arg Pro Thr Val Asn Met Leu Gly
35      40      45
Gly Tyr Tyr Ser Gln Gln Gln Phe Leu Arg Asn Leu Asp Ile Lys Ala
50      55      60
Asn Leu Ala Thr Pro Asp Gln Ala Ser Val Met Asp Glu Ser Tyr Lys
65      70      75      80
Glu Phe Val Met Gln Leu Ala Ser Trp Asp Thr Arg Arg Asp Phe Trp
85      90      95
Ser Gln Thr Asp Tyr Tyr Lys Gln Arg Met Val Gly Asn Ser Lys Ala
100     105     110
Asp Ala Ala Leu Leu Asp Asp Leu Ile Asn Asn Ile Gln Phe Met Pro
115     120     125
Gly Asp Val Leu Arg Asn Val Ser Asp Ser Val Lys Leu Ile Ala Glu
130     135     140
Thr Ala Pro Asp Ala Asn Asn Leu Leu Arg Gln Tyr Val Ala Phe Ala
145     150     155     160
Ser Gln Arg Ala Ala Ser His Leu Asn Asp Glu Leu Lys Gly Ala Trp
165     170     175
Ala Ala Arg Thr Ile Gln Met Lys Ala Gln Val Lys Arg Gln Glu Glu
180     185     190
Val Ala Lys Ala Ile Phe Ala Arg Val His Asn Leu Glu Gln Ala
195     200     205
Leu Lys Ile Ala Glu Gln His Asn Ile Ser Arg Ser Glu Thr Asp Val
210     215     220
Pro Ala Asp Glu Leu Pro Asp Ser Glu Met Phe Leu Leu Gly Arg Pro
225     230     235     240
Met Leu Gln Ala Arg Leu Glu Asn Ile Gln Ala Val Gly Pro Asp Phe
245     250     255
Asp Leu Asp Tyr Asp Gln Asn Arg Ala Met Leu Asn Thr Leu Asn Val
260     265     270
Gly Pro Thr Leu Asp Pro Arg Phe Gln Thr Tyr Arg Tyr Leu Arg Thr
275     280     285
Pro Glu Glu Pro Val Lys Arg Asp Ser Pro Arg Arg Ala Phe Leu Met
290     295     300
Ile Met Trp Gly Ile Val Gly Ala Leu Thr Gly Ala Gly Val Ala Leu
305     310     315     320
Leu Arg Arg Arg Thr Asn
325

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<210> 6743

<211> 232

<212> PRT

<213> Enterobacter cloacae

<400> 6743

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Tyr Gln Arg Arg Val Ala Leu Ser Ile Leu Asn Gly Val Leu Glu Ser
1      5      10      15
Leu Glu Trp Glu Ser Ala Phe Phe Ala Arg Pro Ser Ala Ile Val Arg
20      25      30
Leu Arg Asp Asn Ala Pro Ala Leu Gln Asp Ala Asp Phe Ser Ala Trp
35      40      45
Gln Arg Val Gln Ala Lys Ile Pro Ala Asp Arg Ala Asp Leu Leu Asp
50      55      60

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Ala	Leu	Gln	Gln	His	Gly	Phe	Arg	Leu	Val	Glu	Gly	Glu	Val	Asp	Leu
65					70					75					80
Ser	Val	Thr	Val	Ala	Arg	Tyr	Ala	Ser	Pro	Gly	Ala	Glu	Ile	Ala	Thr
				85					90					95	
Glu	Gln	Asp	Ile	Pro	Thr	Leu	Arg	Lys	Met	Ala	Ala	Leu	Ala	Phe	Ala
			100					105						110	
Gln	Ser	Arg	Phe	Arg	Ala	Pro	Trp	Tyr	Ala	Pro	Asp	Asp	Ser	Gly	Arg
		115					120					125			
Phe	Tyr	Ala	Gln	Trp	Ile	Glu	Asn	Ala	Val	Lys	Gly	Thr	Phe	Asp	His
	130					135					140				
Val	Cys	Leu	Val	Phe	Arg	Thr	Asp	Gly	Gly	Gln	Ile	Gln	Gly	Phe	Val
145					150					155					160
Ser	Leu	Arg	Arg	Leu	Thr	Glu	His	Glu	Ala	Arg	Ile	Gly	Leu	Leu	Ala
				165					170					175	
Gly	Arg	Gly	Met	Gly	Glu	Lys	Leu	Met	Gln	Ala	Ala	Leu	His	Trp	Ala
			180					185					190		
Glu	Gln	Gln	Gln	Val	Ser	Thr	Leu	Arg	Val	Ala	Thr	Gln	Met	Gly	Asn
		195					200					205			
Thr	Ala	Ala	Leu	Lys	Arg	Tyr	Ile	Ala	Ser	Gly	Ala	Ser	Ile	Asp	Ala
	210					215					220				
Thr	Ala	Tyr	Trp	Leu	Tyr	Arg									
225					230										

<210> 6744

<211> 475

<212> PRT

<213> Enterobacter cloacae

<400> 6744

His	Arg	Leu	Phe	Gln	Pro	Glu	Leu	Pro	His	Ala	Val	Ala	Pro	Arg	Ala
1				5					10					15	
Ala	Tyr	Cys	Phe	Arg	Arg	Gln	Arg	Met	Ser	Gln	Leu	Gln	Phe	Ser	Gly
			20					25					30		
Leu	Leu	Val	Val	Trp	Leu	Leu	Ser	Thr	Leu	Phe	Ile	Ala	Thr	Leu	Thr
		35				40						45			
Trp	Phe	Glu	Phe	Arg	Arg	Val	Ser	Phe	Asn	Phe	Asn	Val	Phe	Phe	Ser
	50				55					60					
Leu	Leu	Phe	Leu	Leu	Thr	Phe	Phe	Phe	Gly	Phe	Pro	Leu	Thr	Ser	Ile
65					70					75					80
Leu	Val	Phe	Arg	Phe	Asp	Val	Gly	Val	Ala	Pro	Pro	Glu	Ile	Leu	Leu
				85					90					95	
Gln	Ala	Leu	Leu	Ser	Ala	Thr	Cys	Phe	Tyr	Ala	Val	Tyr	Tyr	Val	Thr
		100						105					110		
Tyr	Lys	Thr	Arg	Leu	Arg	Ala	Ala	Lys	Asp	Thr	Ala	Pro	Arg	Arg	Pro
		115				120						125			
Leu	Phe	Thr	Met	Asn	Arg	Val	Glu	Thr	His	Leu	Thr	Trp	Val	Met	Leu
	130					135					140				
Met	Thr	Ile	Ala	Leu	Val	Ser	Val	Ala	Ile	Phe	Phe	Met	His	Asn	Gly
145					150					155					160
Phe	Leu	Leu	Phe	Lys	Leu	Gln	Ser	Tyr	Ser	Gln	Ile	Phe	Ser	Ala	Glu
				165					170					175	
Val	Ser	Gly	Val	Ala	Leu	Lys	Arg	Phe	Phe	Tyr	Phe	Phe	Ile	Pro	Ala
			180					185					190		
Met	Leu	Val	Val	Phe	Phe	Leu	Arg	Gln	Asp	Ser	Lys	Ala	Trp	Leu	Phe
	195					200						205			
Phe	Leu	Val	Ser	Thr	Val	Ala	Phe	Gly	Ile	Leu	Thr	Tyr	Met	Ile	Val
	210					215					220				
Gly	Gly	Thr	Arg	Ala	Asn	Ile	Ile	Ile	Ala	Phe	Ala	Ile	Phe	Leu	Phe
225					230					235					240
Ile	Gly	Ile	Ile	Arg	Gly	Trp	Ile	Ser	Leu	Trp	Met	Leu	Ala	Ala	Ala
				245					250					255	

Gly Val Phe Gly Ile Val Gly Met Phe Trp Leu Ala Leu Lys Arg Tyr
 260 265 270
 Gly Leu Asn Val Ala Gly Asp Glu Ala Phe Tyr Thr Phe Leu Tyr Leu
 275 280 285
 Thr Arg Asp Thr Phe Ser Pro Trp Glu Asn Leu Ala Leu Leu Leu Gln
 290 295 300
 Asn Tyr Asp Lys Ile Glu Phe Gln Gly Leu Ala Pro Ile Val Arg Asp
 305 310 315 320
 Phe Tyr Val Phe Ile Pro Thr Trp Leu Trp Pro Asp Arg Pro Gly Ile
 325 330 335
 Val Leu Asn Thr Ala Asn Tyr Phe Thr Trp Glu Val Leu Asn Asn His
 340 345 350
 Ser Gly Leu Ala Ile Ser Pro Thr Leu Ile Gly Ser Leu Val Val Met
 355 360 365
 Gly Gly Thr Trp Phe Ile Leu Pro Gly Ala Ile Ala Val Gly Leu Ile
 370 375 380
 Ile Lys Trp Phe Asp Trp Leu Tyr Thr Leu Gly Asn Glu Glu Thr Asn
 385 390 395 400
 Arg Tyr Lys Ala Ala Val Leu His Ser Phe Cys Phe Gly Ala Ile Phe
 405 410 415
 Asn Met Ile Val Leu Ala Arg Glu Gly Leu Asp Ser Phe Val Ser Arg
 420 425 430
 Val Val Phe Phe Met Val Val Phe Gly Leu Cys Leu Leu Leu Ala Lys
 435 440 445
 Leu Leu Tyr Trp Leu Phe Asp Ser Ala Gly Leu Val His Arg Arg Glu
 450 455 460
 Pro Gln Gly Ser Thr Thr Leu Ser Gln Val
 465 470 475

<210> 6745

<211> 251

<212> PRT

<213> Enterobacter cloacae

<400> 6745

Val Gly Ile Ile Met Thr Asp Thr Thr Ser Ala Pro Arg Tyr Ala Leu
 1 5 10 15
 Arg Gly Leu Gln Leu Ile Gly Trp Arg Asp Met Gln His Ala Leu Asp
 20 25 30
 Phe Leu Phe Ala Asp Gly Gln Met Lys Ser Gly Thr Leu Val Ala Ile
 35 40 45
 Asn Ala Glu Lys Met Leu Ala Val Glu Asp Asn Ala Glu Val Lys Ser
 50 55 60
 Leu Ile Glu Ala Ala Glu Phe Lys Tyr Ala Asp Gly Ile Ser Val Val
 65 70 75 80
 Arg Ser Ile Arg Lys Lys Phe Pro Asp Ala Asn Val Ser Arg Val Ala
 85 90 95
 Gly Ala Asp Leu Trp Glu Arg Leu Met Glu Arg Ala Gly Ala Glu Gly
 100 105 110
 Thr Pro Val Phe Leu Ile Gly Gly Lys Pro Glu Val Leu Ala Gln Thr
 115 120 125
 Glu Gln Lys Leu Arg Asn Gln Trp Asn Val Asn Ile Val Gly Ser Gln
 130 135 140
 Asp Gly Tyr Phe Arg Pro Glu Asp Arg Gln Thr Leu Tyr Glu Arg Val
 145 150 155 160
 Arg Asp Ser Gly Ala Lys Ile Val Thr Val Ala Met Gly Ser Pro Arg
 165 170 175
 Gln Glu Ile Leu Met Arg Asp Cys Arg Leu Val Ser Pro Asp Ala Leu
 180 185 190
 Tyr Met Gly Val Gly Gly Thr Tyr Asp Val Phe Thr Gly His Val Lys
 195 200 205

Arg Ala Pro Lys Val Trp Gln Asn Leu Gly Leu Glu Trp Leu Tyr Arg
 210 215 220
 Leu Leu Ser Gln Pro Thr Arg Ile Lys Arg Gln Ile Arg Leu Leu Arg
 225 230 235 240
 Tyr Leu Ala Trp His Tyr Thr Gly Lys Met
 245 250

<210> 6746

<211> 328

<212> PRT

<213> Enterobacter cloacae

<400> 6746

Glu Thr Ile Arg Ser Val Phe Gln Tyr Pro Ser Lys Thr Ile Pro Gly
 1 5 10 15
 Asn Lys Ser Gly Asn Ser Lys His Asn Arg Gly Ile Met Ala Glu Lys
 20 25 30
 Lys Pro Glu Leu Gln Arg Gly Leu Glu Ala Arg His Ile Glu Leu Ile
 35 40 45
 Ala Leu Gly Gly Thr Ile Gly Val Gly Leu Phe Met Gly Ser Ala Ser
 50 55 60
 Thr Leu Lys Trp Ala Gly Pro Ser Val Leu Leu Ala Tyr Ile Ile Ala
 65 70 75 80
 Gly Leu Phe Val Phe Phe Ile Met Arg Ser Met Gly Glu Met Leu Phe
 85 90 95
 Leu Glu Pro Val Thr Gly Ser Phe Ala Val Asn Ala His Arg Tyr Met
 100 105 110
 Ser Pro Phe Phe Gly Tyr Leu Thr Ala Trp Ser Tyr Trp Phe Met Trp
 115 120 125
 Met Ala Val Gly Ile Ser Glu Ile Thr Ala Ile Gly Val Tyr Val Gln
 130 135 140
 Phe Trp Phe Pro Glu Met Ala Gln Trp Ile Pro Ala Leu Ile Ala Val
 145 150 155 160
 Gly Leu Val Ala Leu Ala Asn Ile Ala Ala Val Arg Leu Tyr Gly Glu
 165 170 175
 Ile Glu Phe Trp Phe Ala Met Ile Lys Val Thr Thr Ile Ile Val Met
 180 185 190
 Ile Val Val Gly Leu Gly Val Ile Phe Phe Gly Phe Gly Asn Gly Gly
 195 200 205
 His Ala Val Gly Phe Gly Asn Leu Thr Gly His Gly Gly Phe Phe Ala
 210 215 220
 Gly Gly Trp Lys Gly Phe Leu Thr Ala Leu Cys Ile Val Val Ala Ser
 225 230 235 240
 Tyr Gln Gly Val Glu Leu Ile Gly Ile Thr Ala Gly Glu Ala Lys Asn
 245 250 255
 Pro Gln Val Thr Leu Arg Ser Ala Val Gly Lys Val Leu Trp Arg Ile
 260 265 270
 Leu Ile Phe Tyr Val Gly Ala Ile Phe Val Ile Val Thr Ile Phe Pro
 275 280 285
 Trp Asn Glu Ile Gly Thr Thr Gly Ser Pro Phe Val Leu Thr Phe Ala
 290 295 300
 Lys Ile Gly Ile Thr Ala Ala Ala Ala Ile Ile Asn Phe Val Val Leu
 305 310 315 320
 Thr Ala Ala Leu Ser Arg Leu
 325

<210> 6747

<211> 427

<212> PRT

<213> Enterobacter cloacae

<400> 6747

```

Thr Gln Ser Gly Asn Ala Met Ser Phe Thr Thr Ile Ser Val Val Gly
1      5      10      15
Leu Gly Tyr Ile Gly Leu Pro Thr Ala Ala Ala Phe Ala Ser Arg Gln
20      25      30
Lys Gln Val Val Gly Val Asp Ile Asn Ala His Ala Val Glu Thr Ile
35      40      45
Asn Arg Gly Glu Ile His Ile Val Glu Pro Asp Leu Asp Arg Val Val
50      55      60
Lys Lys Ala Val Asp Gly Gly Phe Leu Arg Ala Ser Thr Thr Pro Val
65      70      75      80
Glu Ala Asp Ala Tyr Leu Ile Ala Val Pro Thr Pro Phe Lys Gly Asp
85      90      95
His Glu Pro Asp Met Val Tyr Val Glu Ala Ala Ala Lys Ser Ile Ala
100     105     110
Pro Val Leu Lys Lys Gly Ala Leu Val Ile Leu Glu Ser Thr Ser Pro
115     120     125
Val Gly Ala Thr Glu Gln Met Ala Gln Trp Leu Ala Glu Ala Arg Pro
130     135     140
Asp Leu Ser Phe Pro Gln Val Gly Asp Gln Ala Asp Ile Asn Ile
145     150     155     160
Ala Tyr Cys Pro Glu Arg Val Leu Pro Gly Gln Val Met Val Glu Leu
165     170     175
Ile Lys Asn Asp Arg Val Ile Gly Gly Met Thr Pro Val Cys Ser Ala
180     185     190
Arg Ala Ser Glu Leu Tyr Lys Ile Phe Leu Glu Gly Glu Cys Val Val
195     200     205
Thr Asn Ser Arg Thr Ala Glu Met Cys Lys Leu Thr Glu Asn Ser Phe
210     215     220
Arg Asp Val Asn Ile Ala Phe Ala Asn Glu Leu Ser Leu Ile Cys Ala
225     230     235     240
Asp Gln Gly Ile Asn Val Trp Glu Leu Ile Arg Leu Ala Asn Arg His
245     250     255
Pro Arg Val Asn Ile Leu Gln Pro Gly Pro Gly Val Gly Gly His Cys
260     265     270
Ile Ala Val Asp Pro Trp Phe Ile Val Ala Gln Asn Pro Glu Gln Ala
275     280     285
Arg Leu Ile Arg Thr Ala Arg Glu Val Asn Asp His Lys Pro His Trp
290     295     300
Val Ile Asn Gln Val Lys Ala Thr Val Ala Asp Cys Leu Ala Asp Ser
305     310     315     320
Gly Lys Arg Ala Ser Glu Leu Lys Ile Ala Cys Phe Gly Leu Ala Phe
325     330     335
Lys Pro Asn Ile Asp Asp Leu Arg Glu Ser Pro Ala Met Glu Ile Ala
340     345     350
Glu Met Ile Ala Ala Trp His Ser Gly Glu Thr Leu Val Val Glu Pro
355     360     365
Asn Ile His Ala Leu Pro Ala Lys Leu Ala Gly His Cys Thr Leu Thr
370     375     380
Ala Leu Asp Asp Ala Leu Ala Thr Ala Asp Val Leu Val Leu Leu Val
385     390     395     400
Asp His Asn Ala Phe Lys Ala Val Ser Gly Asp Ala Val Arg Gln Gln
405     410     415
Tyr Val Val Asp Thr Lys Gly Val Trp Arg
420     425

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<210> 6748

<211> 435

<212> PRT

<213> Enterobacter cloacae

<400> 6748

Pro Gly Ala Ala Trp Ala Arg Asn Ser Cys Arg Arg Arg Cys Thr Gly
 1 5 10 15
 Arg Ser Asn Asn Arg Tyr Arg Arg Cys Gly Ser Gln Pro Arg Trp Ala
 20 25 30
 Thr Pro Leu Arg Leu Asn Val Ile Leu Arg Val Val Pro Ala Ser Thr
 35 40 45
 Pro Pro Pro Thr Gly Tyr Thr Gly Asp Lys Met Ile Pro Phe Asn Ala
 50 55 60
 Pro Pro Val Val Gly Thr Glu Leu Asp Tyr Met Gln Ser Ala Met Gly
 65 70 75 80
 Ser Gly Lys Leu Cys Gly Asp Gly Gly Phe Thr Arg Arg Cys Gln Gln
 85 90 95
 Trp Met Glu Gln Arg Phe His Ser Ala Lys Val Leu Leu Thr Pro Ser
 100 105 110
 Cys Thr Ala Ser Leu Glu Met Ala Ala Leu Leu Leu Asp Ile Gln Pro
 115 120 125
 Gly Asp Glu Val Ile Met Pro Ser Tyr Thr Phe Val Ser Thr Ala Asn
 130 135 140
 Ala Phe Val Leu Arg Gly Ala Lys Ile Val Phe Val Asp Ile Arg Pro
 145 150 155 160
 Asp Thr Met Asn Ile Asp Glu Thr Leu Ile Glu Ala Ala Ile Thr Asp
 165 170 175
 Lys Thr Arg Ala Ile Val Pro Val His Tyr Ala Gly Val Ala Cys Glu
 180 185 190
 Met Asp Thr Ile Met Ala Ile Ala Lys Lys His Asn Leu Phe Val Val
 195 200 205
 Glu Asp Ala Ala Gln Gly Val Met Ser Thr Tyr Lys Gly Arg Ala Leu
 210 215 220
 Gly Thr Ile Gly His Ile Gly Cys Phe Ser Phe His Glu Thr Lys Asn
 225 230 235 240
 Tyr Thr Ala Gly Gly Glu Gly Gly Ala Thr Leu Ile Asn Asp Arg Ala
 245 250 255
 Leu Val Glu Arg Ala Glu Val Ile Arg Glu Lys Gly Thr Asn Arg Ser
 260 265 270
 Gln Phe Phe Arg Gly Gln Val Asp Lys Tyr Thr Trp Arg Asp Ile Gly
 275 280 285
 Ser Ser Tyr Leu Met Ala Asp Leu Gln Ala Ala Tyr Leu Trp Ala Gln
 290 295 300
 Leu Glu Ala Ala Glu Arg Ile Asn Leu Gln Arg Leu Ser Leu Trp Gln
 305 310 315 320
 Thr Tyr Tyr Asp Ala Leu Glu Pro Leu Ala Lys Ala Gly Arg Ile Glu
 325 330 335
 Leu Pro Thr Ile Pro Ala Asp Cys Ile His Asn Ala His Met Phe Tyr
 340 345 350
 Ile Lys Leu Arg Asp Asn Asp Asp Arg Ser Lys Leu Ile Ala Trp Leu
 355 360 365
 Lys Glu Ala Glu Ile Met Ala Val Phe His Tyr Ile Pro Leu His Ser
 370 375 380
 Ser Pro Ala Gly Glu Ala Phe Gly Met Phe Ala Gly Glu Asp Arg Tyr
 385 390 395 400
 Thr Thr Lys Glu Ser Glu Arg Leu Leu Arg Leu Pro Leu Phe Tyr Asn
 405 410 415
 Leu Ala Pro Val Asn Gln Arg Thr Val Ile Asn Ser Leu Leu Ser Tyr
 420 425 430
 Phe Ala
 435

<210> 6749

<211> 362

<212> PRT

<213> Enterobacter cloacae

<400> 6749

```

Thr Arg Met Thr Ala Leu Ile His Ile Leu Gly Ser Asp Ile Pro His
1          5          10          15
His Asn Gln Thr Val Leu Arg Phe Phe Asn Asp Glu Leu Ala Ser Gly
          20          25          30
Thr Pro Asp Ala Arg Glu Phe Met Val Val Gly Arg Asp Asn Gly Leu
          35          40          45
Ser Val Ala Cys Pro Ala Leu His Ile Thr Phe Trp Pro Asp Lys Ala
          50          55          60
Ala Leu Thr Lys Ala Val Val Ala Lys Ala Lys Ala Asp Arg Ser Gln
          65          70          75          80
Arg Phe Phe Phe His Gly Gln Phe Asn Thr Gly Leu Trp Leu Ala Leu
          85          90          95
Leu Ser Gly Gly Ile Lys Pro Ser Gln Phe Ser Trp His Ile Trp Gly
          100          105          110
Ala Asp Leu Tyr Glu Val Ser Arg Gly Trp Lys Phe Arg Leu Phe Tyr
          115          120          125
Pro Leu Arg Arg Leu Ala Gln Ala Arg Val Gly Cys Val Phe Ala Thr
          130          135          140
Arg Gly Asp Leu Asn Tyr Phe Ala Lys Gln His Pro Lys Val Arg Gly
          145          150          155          160
Glu Leu Leu Tyr Phe Pro Thr Arg Met Asp Pro Ala Leu Asn Thr Leu
          165          170          175
Ala Asn Asp Ala Val Arg Glu Gly Lys Leu Thr Ile Leu Val Gly Asn
          180          185          190
Ser Gly Asp Arg Ser Asn Glu His Val Ala Ala Leu Arg Ala Val His
          195          200          205
Gln Gln Phe Gly Asp Thr Val Asn Val Val Val Pro Met Gly Tyr Pro
          210          215          220
Ala Asn Asn Asp Ala Tyr Ile Asn Asp Val Arg Gln Gln Gly Leu Ala
          225          230          235          240
Leu Phe Ser Ala Glu Asn Leu His Ile Leu Asn Asp Lys Leu Glu Phe
          245          250          255
Asp Asp Tyr Leu Ala Leu Leu Arg Lys Cys Asp Leu Gly Tyr Phe Ile
          260          265          270
Phe Ala Arg Gln Gln Gly Ile Gly Thr Leu Cys Leu Leu Ile Gln Ala
          275          280          285
Gly Val Pro Cys Val Leu Asn Arg Glu Asn Pro Phe Trp Gln Asp Met
          290          295          300
Ala Glu Gln His Ile Pro Val Leu Phe Thr Ser Asp Thr Leu Asn Val
          305          310          315          320
Glu Val Val Arg Glu Ala Gln Arg Gln Leu Thr Leu Val Asp Lys Asn
          325          330          335
Ser Ile Asp Phe Phe Ser Pro Asn Tyr Leu Thr Pro Trp His His Ala
          340          345          350
Leu Arg Ile Ala Ser Gly Asp Asn Ala
          355          360

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<210> 6750

<211> 291

<212> PRT

<213> Enterobacter cloacae

<400> 6750

```

Gln Pro Ile Pro Ala Val Val Cys Arg Leu Thr Lys Ala Lys Ser Glu
1          5          10          15
Leu Ser Arg Leu Ser Asn Gln Pro Ala Ala Ala Arg Arg Val Asn Pro
          20          25          30
Leu Asn Gly Val Leu Met Gln Ile Ser Thr Glu Val Leu Asn Val Leu

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```

      35              40              45
Ser Arg Cys Arg Ala Glu Gly Asn Phe Leu Phe Leu Ala Asp Gln Leu
  50              55              60
Asp Arg Ser Ile Tyr Val Lys Thr Asn Lys Val Leu Glu Ala Ala Gly
  65              70              75              80
Gly Lys Trp Asn Arg Lys Glu Gln Ala His Ile Phe Thr Ala Asp Ala
      85              90              95
Ala Glu Arg Ile Glu Gln Ile Ile Leu Thr Gly Ser Val Asp Ile Pro
      100              105              110
Arg Asp Leu Phe Asn Phe Phe Pro Thr Pro Glu Asn Leu Val Thr Asp
      115              120              125
Met Val Leu Arg Ala Glu Pro Ala Ala Gly Glu Arg Val Leu Glu Pro
      130              135              140
Glu Phe Gly Asp Gly Arg Ile Leu Lys Ala Leu Lys Leu Ala Ala Pro
      145              150              155              160
Asp Ala Leu Ile Thr Gly Ile Glu Leu Asn Asp Glu Arg Phe Leu Ala
      165              170              175
Val Lys Asn Asp Ser Val Leu Ser Thr Gly Val Glu Leu Val His Thr
      180              185              190
Asp Phe Leu Gly Tyr Gln Pro Asp Glu Thr Phe Asp Val Ile Val Met
      195              200              205
Asn Pro Pro Phe Leu Lys Arg Ser Asp Val Lys His Val Met His Ala
      210              215              220
Ile Ala Met Leu Ala Lys Arg Gly Arg Leu Gln Ala Ile Leu Ser Ala
      225              230              235              240
Gly Val Leu Phe Arg Glu Asp Thr Leu Thr Lys Ala Leu Arg Glu Arg
      245              250              255
Val Lys Gln Leu Gly Gly Gln Ile Ser Pro Leu Pro Asp Asp Thr Phe
      260              265              270
Arg Glu Ser Gly Tnr Lys Val Lys Thr Ala Arg Leu Glu Ile Asp Leu
      275              280              285
Arg Arg
      290

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<210> 6751

<211> 365

<212> PRT

<213> Enterobacter cloacae

<400> 6751

```

Leu Ile Met Thr Lys Glu Lys Asp Thr Glu Gln Gln Asp Leu Val Thr
  1              5              10              15
Arg Ala Phe Ser Val Arg Glu Lys Glu Ser Gly Lys Asp Ile Ile Leu
      20              25              30
Arg Pro Asn Ser Asn Arg Thr Val Gln Ser Ile Ala Leu Met Arg Leu
      35              40              45
Gly Leu Phe Val Pro Ser Pro Lys Ser Val Gly Arg Gln Asn Arg Glu
      50              55              60
Tyr Lys Thr Val Gly Phe Asp Ala Thr Lys Glu Leu Gln Thr Leu Ser
      65              70              75              80
Leu Met Glu Ser Glu Gly Phe Thr Asn Ile Ser Ile Val Gly Glu Arg
      85              90              95
Leu Asp Met Ser Val Asp Phe Lys Thr Trp Met Gly Ile Ile Arg Thr
      100              105              110
Tyr Ala Asn His Pro Ile Asn Asn Asp Thr Ile Ser Leu Lys Phe Thr
      115              120              125
Glu Phe Leu Lys Leu Cys Thr Pro Glu Asn Tyr Arg Ser Ser Thr Ala
      130              135              140
Ser Arg Lys Arg Ile Asp Ala Ser Leu Arg Arg Leu Ala Ser Val Thr
      145              150              155              160
Leu Ser Phe Thr Ser Asn Asn Ser Ser Lys Val Tyr Thr Thr His Leu

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                165                170                175
Val Gln Ser Ala Leu Leu Asp Pro Glu Ser Asp Gln Val Val Leu Gln
                180                185                190
Val Asp Pro Lys Ile Phe Glu Leu Tyr Gln Tyr Asp His Lys Val Leu
                195                200                205
Met Gln Leu Lys Ala Ile Lys Glu Leu Ala Lys Lys Glu Ser Ala Gln
                210                215                220
Ala Leu Tyr Thr Phe Ile Glu Ser Leu Pro Pro Asn Pro Ile Pro Ile
                225                230                235                240
Ser Leu Thr Arg Leu Lys Asn Arg Leu Asn Leu Lys Thr Arg Ala Asn
                245                250                255
Ser Gln Asn Ala Thr Val Arg Lys Ala Leu Glu Glu Leu Ala Ser Ile
                260                265                270
Gly Tyr Leu Gln Tyr Thr Glu Ile Lys Lys Asp Gly Lys Val Tyr Phe
                275                280                285
Gln Ile His Lys Arg Asp Pro Asp Leu Asn Leu Asn Asn Thr Gln Pro
                290                295                300
Pro Leu Glu Val Val Glu Asp Glu Glu Glu Asn Ser Gly Ser Ser Val
                305                310                315                320
Leu Glu Gly Glu Leu Cys Pro Pro Ala Asp Pro Ile Asp Gly Asp Asp
                325                330                335
Val Leu Thr Val His Asp Leu Thr Ala Glu Glu Leu Arg Tyr Ile Arg
                340                345                350
Ser Leu Arg Ser Gln Lys Lys Asn Ser Asn Ala Ser
                355                360                365

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<210> 6752

<211> 273

<212> PRT

<213> Enterobacter cloacae

<400> 6752

```

Arg Pro Tyr Val Lys Asp Met Thr Gly Gly Gly Pro Phe Gln Leu Arg
1          5          10          15
Ala Gly Glu Trp Thr Asp Asp Thr Ser Met Ala Leu Cys Leu Ala Glu
20          25          30
Thr Leu Leu Glu Lys Gly Asp Ala Asp Thr Ile Cys Phe Arg Asn Lys
35          40          45
Leu Leu Glu Trp Tyr Gln His Gly Tyr Asn Ser Ser Ile Gly Val Cys
50          55          60
Phe Asp Ile Gly Asn Thr Thr Arg Phe Ala Leu Glu Gln Tyr Leu Thr
65          70          75          80
Ile Gly Pro Gly Trp Ser Gly Asn Thr Ala Pro Glu Thr Ala Gly Asn
85          90          95
Ala Ser Ile Ile Arg Gln Ala Pro Val Ser Ile Phe Phe Arg Lys Ser
100         105         110
Leu Ser Lys Ala Phe Tyr Glu Ala Lys Lys Gln Cys Ile Ala Thr His
115         120         125
Gly Ala Ala Glu Ala Ile Asn Ser Thr Gln Tyr Leu Ser Tyr Leu Leu
130         135         140
Val His Met Ile Asn Gly Ser Asn Lys Asp Phe Val Phe Ser Pro His
145         150         155         160
Val Met Pro Leu Gln Pro Arg Val Met Ile Ile Asn Ala Gly Glu Tyr
165         170         175
Lys Gln Lys Thr Arg Asp Gln Ile Arg Ser Ser Gly Tyr Val Ile Asp
180         185         190
Thr Leu Glu Ala Ala Met Trp Ser Val Trp Asn Thr Asp Asn Phe Arg
195         200         205
Asp Ala Ile Leu Leu Ala Ala Asn Leu Ala Asp Asp Ala Asp Ser Val
210         215         220
Ala Ala Thr Ala Gly Gln Ile Ala Gly Ala Leu Tyr Gly Tyr Ser Gly

```

225					230					235				240
Ile	Pro	Gln	Glu	Trp	Lys	Asn	Asn	Leu	Val	Gln	His	Glu	Arg	Ile
				245					250					255
Lys	Met	Ala	Gly	Glu	Leu	Phe	Asp	Arg	Ala	Pro	Glu	Asp	Thr	Phe
			260					265					270	Leu

<210> 6753

<211> 1457

<212> PRT

<213> Enterobacter cloacae

<400> 6753

Gly	Met	Ser	Asp	Asn	Asn	Ala	Ala	Arg	Lys	Gly	Asp	Glu	Ile	Ile	His
1				5					10					15	
Ser	Ser	Ile	Phe	Ala	Asp	Ile	Thr	Ser	Ile	Val	Ala	Glu	Gly	Ala	Ala
			20					25					30		
Tyr	Ala	Val	Ile	Gly	Ala	Ala	Val	Gly	Ala	Ala	Ala	Thr	Val	Ala	Ala
		35					40					45			
Pro	Leu	Leu	Gly	Ala	Gly	Ala	Ala	Ala	Ala	Gly	Val	Ala	Ala	Ile	Gly
		50				55					60				
Ser	Ser	Cys	Leu	Leu	Ser	Gly	Ile	Ile	Gly	Gly	Val	Leu	Ala	Asn	Val
65					70				75					80	
Ala	Gly	Ile	Thr	Asp	Asp	Ile	Ser	Asn	Ala	Ala	Glu	Gly	Leu	Gly	Asn
				85				90						95	
Ala	Leu	Phe	Pro	Pro	Ser	Pro	Ala	Gly	Lys	Ile	Thr	Thr	Gly	Ser	Asn
			100				105						110		
Asn	Val	Leu	Thr	Asn	Ala	Ile	Pro	Ala	Ala	Arg	Ala	Ala	Gly	Thr	Leu
		115					120					125			
Thr	Pro	Ala	Asp	Thr	Pro	Ser	Pro	Glu	Pro	Gln	Ser	Pro	Gly	Ser	Phe
		130				135					140				
Ala	Asp	Tyr	Ala	Gly	Met	Leu	Leu	Ser	Ala	Ala	Gly	Gln	Phe	Gly	Ser
145					150				155					160	
Glu	Met	Trp	Gln	Pro	Ser	Val	Ala	Ser	Ala	Ala	Ala	Gly	Thr	Ser	Pro
			165					170						175	
Leu	Glu	Glu	Asp	Lys	Val	Ala	Cys	Glu	Lys	His	Ser	Gly	Pro	Gln	Tyr
		180						185				190			
Leu	Ala	Glu	Gly	Ser	Lys	Ser	Val	Phe	Ile	Asn	Gly	Gln	Pro	Ala	Val
		195					200					205			
Arg	Ala	Lys	Asp	Arg	Thr	Thr	Cys	Glu	Gly	Thr	Val	Ser	Asp	Asp	Val
		210				215					220				
Ser	Pro	Asn	Val	Ile	Ile	Gly	Gly	Asp	Thr	Leu	Thr	Val	Arg	Asp	Ile
225					230				235					240	
Lys	Ser	Gly	Lys	Thr	Pro	Gly	Leu	Ala	Leu	Gly	Met	Ile	Ala	Leu	Ser
			245					250						255	
Leu	Leu	Arg	Gly	Arg	Pro	Gly	Lys	Ile	Leu	Lys	Asn	Met	Pro	Cys	Ala
		260					265					270			
Leu	Ala	Ala	Ala	Gly	Gly	Gly	Met	Leu	Ala	Asp	Met	Ala	Val	Asn	Ala
		275					280				285				
Val	Phe	Gly	Ser	Ser	His	Pro	Val	His	Ala	Ala	Thr	Gly	Val	Lys	Val
		290				295					300				
Leu	Asn	Asp	Asp	Asp	Glu	Leu	Asp	Phe	Ser	Leu	Pro	Gly	Arg	Phe	Pro
305					310				315					320	
Leu	Arg	Trp	Gln	Arg	Ser	Tyr	Asn	Ser	Leu	Thr	Thr	Arg	Glu	Gly	Leu
			325					330					335		
Phe	Gly	Leu	Gly	Trp	Ala	Thr	Thr	Phe	Asp	Ser	Tyr	Leu	Thr	Leu	Glu
		340					345					350			
Glu	Asn	Asn	Ala	Thr	Trp	Phe	Asp	Glu	Thr	Gly	Arg	Glu	Leu	Ser	Phe
		355				360					365				
Glu	Leu	Pro	Pro	Val	Asp	Arg	Ala	Phe	Tyr	Ser	Ile	Ser	Glu	Gly	Ile

370	375	380
Ile Ile Arg Arg Asn Glu Ser Gly Asp Val Ala Ile Ala Asp Asp Asp		
385	390	395
Gly Ala Val Trp Arg Leu Tyr Lys Pro Thr Arg Ala Asn Pro Ser Ile		400
	405	410
Leu Arg Leu Ala Ser Leu Ser Asp Glu Tyr Gly Asn Ala Leu Leu Thr		415
	420	425
Ala Trp Asp Glu His Gly Arg Leu Val Gly Ile His Asp Glu Pro Arg		430
	435	440
Ala Ile Asp Val Ser Leu Arg Tyr Asp Asp Glu Arg Phe Pro Gln Arg		445
	450	455
Val Thr Ala Ala Ser His Phe Asp Gly Asn Gln Thr Trp Pro Leu Met		460
465	470	475
His Trp Gly Tyr Asp Ala Arg Gly Gln Leu Ala Ser Ala Thr Asp Ala		480
	485	490
Ser Gly Val Val Thr Arg Glu Tyr Arg Tyr Asn Asp His Gly Leu Met		495
	500	505
Val Trp His Arg Met Pro Gly Gly Leu Glu Ser Glu Tyr Arg Trp Gln		510
	515	520
Lys Phe Asp His Trp Arg Val Val Glu Asn Arg Thr Ser Thr Gly Asp		525
	530	535
Gly Cys Arg Phe Thr Tyr Asp Leu Ala Ala Gly Leu Thr Thr Val Glu		540
545	550	555
His Tyr Asp Gly Gln Thr Arg Lys His Tyr Trp Asn Ala Gln Asn Leu		560
	565	570
Ile Val Arg Tyr Val Asp Glu Ser Gly Glu Asn Trp Arg Tyr Glu Trp		575
	580	585
Asp Asp Asn Glu Leu Leu Thr Arg Ile Asp Pro Leu Gly Asn Ala		590
	595	600
Val Thr Phe Val Tyr Asp Asp Met Gly Asn Arg Val Gln Glu Ile Asp		605
	610	615
Ala Asp Gly Asn Thr Arg Thr Thr Thr Trp Leu Glu His Arg Ala Leu		620
625	630	635
Pro Ala Ala Ile Ile Glu Ala Asp Gly Asn Ala Thr Arg Phe Trp Tyr		640
	645	650
Asp Glu His His Gly Leu Lys Arg Val Val Asp Pro Met Gly Gln Thr		655
	660	665
Thr Leu Leu Arg Arg Asp Glu Phe Gly Gln Val Val Glu Glu Val Asp		670
	675	680
Ala Ala Gly Asn Ser Arg Tyr Gln Glu Tyr Asn Glu Ala Gly Gln Met		685
	690	695
Val Arg Ala Thr Asp Cys Ser Gly Arg Val Thr Gln Tyr Arg Tyr His		700
705	710	715
Pro Leu Gly Trp Leu Met Ala Glu Thr Ala Ala Asp Gly Glu Glu Thr		720
	725	730
Arg Tyr Arg Tyr Asp Ala Ala Gly Arg Pro Val Gln Leu Asp Arg Pro		735
	740	745
Glu Gly Trp Thr Glu Ser Leu Lys Trp Asn Glu Arg Gly Leu Pro Val		750
	755	760
Lys His Ala Gly Ala Asp Gly Lys Glu Ser Glu Phe Arg Tyr Asp Glu		765
	770	775
Ala Gly Arg Leu Thr Ala Thr Arg Asn Thr Gln Gly Glu Glu Val Arg		780
785	790	795
Arg Arg Trp Asp Ser Arg Gly Arg Leu Ile Ala Leu Glu Asn Glu Asn		800
	805	810
Gly Glu Ala Tyr Gln Phe Arg Trp Gly Pro Asp Ser Leu Leu Glu		815
	820	825
Glu Val Gly Leu Asp Gly Val Ala Ser Gln Tyr Arg Tyr Asp Ala Cys		830
	835	840
Gly Arg Thr Ile Ala Arg Thr Phe Ala Ala Gly His Pro Glu Ala Ile		845
850	855	860

Thr His Ala Phe Ala Trp Ser Ala Ser Gly Gln Leu Val Ala Arg Thr
 865 870 875 880
 Thr Pro Glu Gly Gln Thr Arg Tyr His Tyr Thr Pro Ser Gly Leu Leu
 885 890 895
 Ser Arg Ile Gly Leu His Pro Ala Leu Ser Ala Asp Ala Trp Ser Ala
 900 905 910
 Glu Ala Glu Gln Glu Leu Val Phe Glu Tyr Asp Ala Leu Gly Arg Val
 915 920 925
 Thr Arg Glu Thr Gly Glu His Gly Glu Leu Ala Trp Glu Tyr Asp Ala
 930 935 940
 Leu Gly Asn Arg Thr Ser Val Thr Leu Pro Asp Gly Arg Glu Leu Lys
 945 950 955 960
 Gln Phe Tyr Tyr Gly Ser Gly His Leu Leu Ser Ile Ala Leu Asp Lys
 965 970 975
 Leu Ser Val Ser Asp Phe Thr Arg Asp Glu Leu His Arg Glu Thr Ser
 980 985 990
 Arg Thr Gln Gly Leu Leu Thr Thr Arg Ser Glu Tyr Asp Arg Leu Gly
 995 1000 1005
 Arg Leu His Arg Arg Asp Val Phe Thr Gly Asn Ala Gln Arg Pro Ser
 1010 1015 1020
 Pro Arg Arg Trp Ser Arg Arg Trp Asp Tyr Asp Tyr Arg Asn Asn Leu
 1025 1030 1035 1040
 Val Arg Glu Glu Arg Asp Asp Asn Pro Phe Asn Trp Tyr Arg Trp Gln
 1045 1050 1055
 Tyr Asp Ser Ala Gly Arg Leu Leu Val Gln Asp Gly Thr Leu Pro Gly
 1060 1065 1070
 Gln Glu Gln Trp Arg Trp Asp Ala Ala Gly Asn Pro Leu Glu Gly Ser
 1075 1080 1085
 Val Glu Lys Val Thr His Asn Arg Leu Thr Gln Leu Asn Gly Ile Arg
 1090 1095 1100
 Trp Arg Tyr Asp Val His Gly Arg Thr Val Glu Lys Asp Asn Gly Gln
 1105 1110 1115 1120
 Thr Arg Trp His Tyr Arg Tyr Asp Gly Glu His Arg Leu Thr Glu Val
 1125 1130 1135
 Ile Ser Gln Pro Arg Asp Arg Asn Arg Pro Gln Thr Gln Val Ser Phe
 1140 1145 1150
 Arg Tyr Asp Pro Leu Gly Arg Arg Ile Ser Lys Thr Arg Arg Gln Met
 1155 1160 1165
 Leu Gly Gly Gln Pro Ala Gly Lys Pro Val Thr Thr Arg Phe Val Trp
 1170 1175 1180
 Glu Gly Phe Arg Leu Leu Gln Glu Val His Gly Glu Val Pro Leu Thr
 1185 1190 1195 1200
 Tyr Val Tyr Ser Asp Gln Asp Ser Tyr Asp Pro Leu Ala Arg Ile Asp
 1205 1210 1215
 Gly Val Asp Ala Pro Glu Ile Phe Trp Phe His Cys Gln Pro Asn Gly
 1220 1225 1230
 Thr Pro Glu Arg Met Thr Asp Ser Glu Gly Gln Val Arg Trp Val Gly
 1235 1240 1245
 Val Asn Ser Ala Trp Gly Lys Leu Leu Arg Glu Ser Glu Thr Gln Val
 1250 1255 1260
 Ser Gly Tyr Ser Gln Asn Leu Arg Met Gln Gly Gln Tyr Leu Asp Arg
 1265 1270 1275 1280
 Glu Thr Gly Leu His Tyr Asn Leu Phe Arg Tyr Tyr Asp Pro Asp Cys
 1285 1290 1295
 Gly Leu Phe Thr Gln Gln Asp Pro Ile Gly Leu Ala Gly Gly Ile Asn
 1300 1305 1310
 Leu Tyr Gln Tyr Ala Pro Asn Ala Leu Gly Trp Val Asp Pro Trp Gly
 1315 1320 1325
 Leu Lys Cys Gly Phe Ser Gln Lys Asp Arg Ile Thr Gln Arg Trp Val
 1330 1335 1340
 Asp Arg Leu Thr Gly Lys Lys Pro Ala Asp Val His Asn Ile Leu Thr

1345 1350 1355 1360
 Ser Lys Gly Trp Thr Arg Thr Tyr Pro Gln Ala Asn Lys Pro Gly Ala
 1365 1370 1375
 Ile Gln His Ile Gln Tyr Val Lys Thr Thr Lys Ser Gly Thr Thr Tyr
 1380 1385 1390
 Lys Leu Asp Tyr His Pro Gly Gly Thr Pro Thr Gln Pro Asn Ile His
 1395 1400 1405
 Gly Asn Asp Tyr Trp Lys Val Tyr Arg Glu Val Asp Gly Ala Asp Val
 1410 1415 1420
 Val Tyr Gly Arg Ile Gly His Gly Glu Phe Lys Asn Tyr Asp Leu Ile
 1425 1430 1435 1440
 Thr Asp Ser Pro Val Tyr Val Asp Gly Val Leu Leu Asn Gly Gly Val
 1445 1450 1455

<210> 6754

<211> 761

<212> PRT

<213> Enterobacter cloacae

<400> 6754

Asn Ala Thr Val Thr Cys Val Ser Ser Asn Ala Gln Thr Val Arg Arg
 1 5 10 15
 Leu Ser Lys Pro Cys Trp Val Ser Ile Lys Leu Asn Leu Gln Lys Gln
 20 25 30
 Leu Thr Gly Ser Tyr Arg Val Trp Asp Tyr Cys Val Gln Tyr Gln Glu
 35 40 45
 Ser Ser Leu Asp Phe Ile Ser Arg Leu Met Glu Leu Glu Gly Ile Ala
 50 55 60
 Tyr Tyr Phe Arg His Glu Ala Asp Lys His Thr Leu Val Leu Thr Asp
 65 70 75 80
 Ala Ala Thr Gln His Gln Pro Phe Ser Gly Tyr Glu Val Ile Pro Tyr
 85 90 95
 His Gln Thr Pro Ser Gly Gly Ser Thr Asp Glu Glu Gly Ile Ser Gln
 100 105 110
 Trp Ala Leu Glu Asp Cys Val Thr Pro Gly Ile Tyr Ser Leu Asp Asp
 115 120 125
 Tyr Asp Phe Arg Lys Pro Asn Ala Trp Leu Phe Gln Ala Gln Gln Asn
 130 135 140
 Pro Ala Ser Pro Lys Pro Gly Ser Ile Asp Val Tyr Asp Trp Pro Gly
 145 150 155 160
 Arg Phe Val Glu Thr Gly His Ala Glu Phe Tyr Ala Arg Ile Arg Gln
 165 170 175
 Glu Arg Trp Gln Val Glu His Gln Gln Ile Gln Ala Thr Ala Thr Ala
 180 185 190
 Ala Gly Ile Ala Pro Gly His Ile Phe Thr Leu Thr Asn Ala Pro Phe
 195 200 205
 Phe Ser Asp Asn Gly Glu Tyr Leu Val Thr Ala Ala Gly Tyr His Phe
 210 215 220
 Glu Glu Asn Arg Tyr Ala Ser Gly Glu Gly Glu Thr Ile His Arg Thr
 225 230 235 240
 Asp Phe Thr Val Ile Pro Ala Ser Val Ser Tyr Arg Pro Ala Gln Ser
 245 250 255
 Thr Ala Trp Pro Arg Thr Tyr Gly Pro Gln Thr Ala Lys Val Val Gly
 260 265 270
 Pro Gln Gly Glu Ser Ile Trp Thr Asp Lys Tyr Gly Arg Val Lys Val
 275 280 285
 Lys Phe His Trp Asp Arg Leu Ala Lys Gly Asp Asp Thr Ser Ser Cys
 290 295 300
 Trp Val Arg Val Ser Ser Ala Trp Ala Gly Gln Gly Tyr Gly Gly Val


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305          310          315          320
Gln Ile Pro Arg Val Gly Asp Glu Val Val Val Asp Phe Ile Asn Gly
          325          330          335
Asp Pro Asp Arg Pro Ile Ile Thr Gly Arg Val Tyr Asn Asp Ala Ser
          340          345          350
Met Pro Pro Trp Ala Leu Pro Ala Ala Ala Thr Gln Met Gly Phe Met
          355          360          365
Ser Arg Thr Lys Asp Gly Ser Val Asp Asn Ala Asn Ala Leu Arg Phe
          370          375          380
Glu Asp Lys Ala Gly Ala Glu Gln Val Trp Ile Gln Ala Glu Arg Asn
385          390          395          400
Leu Asp Thr Ser Val Lys Asn Asp Glu Thr His Ser Val Gly Gly Ala
          405          410          415
Arg Ser His Tyr Val Lys Lys Asn Glu Leu His Arg Val Glu Ala Asn
          420          425          430
Gln Ile Gln Ala Val Lys Gly Gly Thr Glu Ile Leu Thr Gly Lys Gly
          435          440          445
Lys Leu Asp Ala Ala Val Glu Gln Tyr Val Ile Ala Ser Gly Thr Lys
450          455          460
Leu Arg Leu Val Ser Gly Glu Ser Ala Ile Glu Leu Asn Ala Asn Gly
465          470          475          480
Lys Ile Asn Leu Ile Gly Lys Glu Phe Asn Phe Phe Val Glu Gly Asp
          485          490          495
Gly Tyr Ile Thr Thr Gly Gly Lys Leu His Leu Asn Thr Ser Gly Thr
          500          505          510
Lys Pro Gly Thr Thr Ala Pro Gly Ser Gly His Lys Gly Asp Ile Asp
          515          520          525
Ala Ala Val Gln Glu Lys Phe Ser Pro Asn Lys Ser Ala Lys Asn Pro
530          535          540
Ala Pro Ala Ala Ser Ala Pro Ala Ala Thr Arg Pro Lys Pro Thr Thr
545          550          555          560
Lys Phe Ala Ser Ala Pro Pro Leu Lys Gly Ser Tyr Val Tyr Gln Asn
          565          570          575
Asn Ser Tyr Asn Ser Asp Val Met Pro Phe Ser Glu Asp Val Val Lys
          580          585          590
Glu Ile Asn Lys Ser Pro Thr Leu Gln Thr Gln Leu Lys Asp Leu Lys
          595          600          605
Asp Lys Gly Trp Ala Ile Gln Pro Gly Ala Ala Gly Gly Gly Ser Tyr
610          615          620
Ala Asp Thr Asn Asn Lys Leu Ile Val Met Asp Pro Glu His Met Glu
625          630          635          640
Asp Thr Ala Thr Thr Val Gln Thr Leu Ala His Glu Ala Gly His Ala
          645          650          655
Thr Tyr Pro Val Ala Val Asp Ser Ser Ser Lys Glu Ser Phe Ile Asn
          660          665          670
Ser Gln Leu Met Asp Glu Gly Gly Ala Thr Leu Asn Asn Ile Lys Ile
          675          680          685
Gln Arg Glu Ile Leu Ala Asn Gly Gly Ile Asp Ile Asp Ile Ala Gly
690          695          700
Ser Ala Glu Asn Leu Lys Ala Tyr Asn Ser Ala Tyr Asp Lys Met Val
705          710          715          720
Ser Gly Glu Leu Ser Arg Ile Asp Ala Ala Lys Ala Ile Gly Lys Val
          725          730          735
Tyr Gly Lys Gly Glu Ile Ala Ser Gly Thr Asn Leu Asn Tyr Asn Asp
          740          745          750
Tyr Tyr Gly Gly Phe Tyr Gly Lys
          755          760

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<210> 6755

<211> 357

<212> PRT

<213> Enterobacter cloacae

<400> 6755

Lys Pro Cys Ile Ile Gly Ser Thr Val Leu Phe Ile Ala Cys Ser Thr
 1 5 10 15
 Ala Ala Pro Ser Thr Leu Met Ala Thr Ser Ala Ala Pro Lys Leu Pro
 20 25 30
 Pro Asn Thr Ile Ser Pro Arg Ala Asn Ile Ser Gly Glu Ala Asn His
 35 40 45
 Ser Ala Thr Leu Arg Pro Ser Ile Pro Thr Thr Ala Gln His Met Val
 50 55 60
 Val Arg Ile Thr Ala Arg Val Pro Lys Arg Phe Thr Ser Gln Ala Glu
 65 70 75 80
 Gln Arg Met Pro Leu Ile Glu Pro Ile Asp Arg Pro Asn Ser Thr Ile
 85 90 95
 Pro Ile Ser Ala Val Glu Thr Asp Ser Val Ser Arg Ile Ala Gly Val
 100 105 110
 Arg Val Ala Gln Glu Ala Ile Ser Ser Pro Gly Met Lys Lys Asn Ile
 115 120 125
 Asn Ser Ala His Met Arg Arg Cys Arg Ala Leu Arg Gly Glu Val Ser
 130 135 140
 Val Ile Gly Ile Ser Thr Arg Ser Thr Thr Ile Ala Thr Thr Leu Ala
 145 150 155 160
 Thr Leu Cys Thr Phe Val His Lys Leu Asp Glu Asp Phe Met Ser Arg
 165 170 175
 Pro Pro Asn Asp Pro Asn Arg Arg Glu Lys Ile Leu Gln Ala Thr Leu
 180 185 190
 Asp Thr Ile Ala Glu His Gly Ile His Ala Val Thr His Arg Lys Ile
 195 200 205
 Ala Thr Cys Ala Gly Val Pro Leu Gly Ser Met Thr Tyr Tyr Phe Asp
 210 215 220
 Gly Met Glu Ser Leu Leu Glu Glu Ala Phe Thr Trp Phe Thr Gln Gln
 225 230 235 240
 Met Ser Gln Gln Tyr Arg Asp Phe Phe Ala Gly Val Thr Gly Arg Glu
 245 250 255
 Arg Ala Cys Glu Ala Ile Thr Thr Leu Ile Asn Ser Ser Ala Val Thr
 260 265 270
 Thr Pro His Asn Met Ala Leu Met Tyr Gln Leu Tyr Ala Phe Met His
 275 280 285
 Arg Ser Ala Ala Leu Lys Thr Val Met Gln Asp Trp Met Lys Met Ser
 290 295 300
 Gln Thr Thr Leu Glu Gln Trp Phe Asp Ser Ala Thr Ala Arg Ala Leu
 305 310 315 320
 Asp Ala Phe Ile Glu Gly Met Thr Leu His Phe Val Thr Asp Arg Ser
 325 330 335
 Pro Leu Thr Arg Glu Glu Ile Arg Val Met Val Gly Arg Ile Ala Gly
 340 345 350
 Glu Asp Thr Val
 355

<210> 6756

<211> 246

<212> PRT

<213> Enterobacter cloacae

<400> 6756

Met Ser Thr Arg Lys Lys Leu Gly Leu Thr Asn Thr Thr Phe Lys Thr
 1 5 10 15
 Val His Gly Leu Asp Ala Pro Gly Gln Phe Ser Thr Ala Arg Asp Met
 20 25 30
 Ala Leu Leu Gly Lys Ala Leu Ile His Asp Val Pro Asp Glu Tyr Ala

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<210> 6757
<211> 414
<212> PRT
<213> Enterobacter cloacae
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<400> 6757															
Arg	Asp	Cys	Met	Ile	Asn	Arg	Ser	Ser	Ser	Gly	Asn	Arg	Leu	Gly	Arg
1				5					10					15	
Gln	Ala	Leu	Leu	Phe	Pro	Leu	Cys	Leu	Val	Leu	Tyr	Glu	Phe	Ser	Thr
			20					25					30		
Tyr	Ile	Gly	Asn	Asp	Met	Ile	Gln	Pro	Gly	Met	Leu	Ala	Val	Val	Glu
		35					40					45			
Gln	Tyr	Asn	Ala	Gly	Ile	Glu	Trp	Val	Pro	Thr	Ser	Met	Thr	Ala	Tyr
	50					55					60				
Leu	Ala	Gly	Gly	Met	Phe	Leu	Gln	Trp	Leu	Leu	Gly	Pro	Leu	Ser	Asp
65					70					75					80
Arg	Ile	Gly	Arg	Arg	Pro	Val	Met	Leu	Thr	Gly	Val	Val	Trp	Phe	Ile
				85						90				95	
Val	Thr	Cys	Leu	Ala	Thr	Leu	Leu	Ala	Gln	Asn	Ile	Glu	Gln	Phe	Thr
			100					105					110		
Leu	Leu	Arg	Phe	Leu	Gln	Gly	Val	Ser	Leu	Cys	Phe	Ile	Gly	Ala	Val
		115					120					125			
Gly	Tyr	Ala	Ala	Ile	Gln	Glu	Ser	Phe	Glu	Glu	Ala	Val	Cys	Ile	Lys
	130					135					140				
Ile	Thr	Ala	Leu	Met	Ala	Asn	Val	Ala	Leu	Ile	Ala	Pro	Leu	Leu	Gly
145					150					155					160
Pro	Leu	Val	Gly	Ala	Ala	Trp	Val	His	Val	Ala	Pro	Trp	Glu	Gly	Met
			165							170				175	
Phe	Val	Leu	Phe	Ala	Ala	Leu	Ala	Ala	Ile	Ser	Phe	Phe	Gly	Leu	His
			180					185					190		
Arg	Ala	Met	Pro	Glu	Thr	Ala	Thr	Arg	Leu	Gly	Glu	Lys	Leu	Ser	Leu
		195					200					205			
Lys	Glu	Leu	Gly	Arg	Asp	Tyr	Lys	Ala	Val	Leu	Gln	Asn	Gly	Arg	Phe

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      210              215              220
Val Ala Gly Ala Leu Ala Thr Gly Phe Val Ser Leu Pro Leu Leu Ala
225              230              235              240
Trp Ile Ala Gln Ser Pro Val Ile Ile Ile Ser Gly Glu Gln Leu Ser
      245              250              255
Ser Tyr Glu Tyr Gly Leu Leu Gln Val Pro Ile Phe Gly Ala Leu Ile
      260              265              270
Ile Gly Asn Leu Val Leu Ala Arg Leu Thr Ser Arg Arg Thr Val Arg
      275              280              285
Ser Leu Ile Ile Met Gly Gly Trp Pro Ile Ala Ala Gly Leu Ile Ile
      290              295              300
Ala Ala Val Ala Thr Val Ala Ser Ser His Ala Tyr Leu Trp Met Thr
305              310              315              320
Ala Gly Leu Ser Ile Tyr Ala Phe Gly Ile Gly Val Ala Asn Ala Gly
      325              330              335
Leu Val Arg Leu Thr Leu Phe Ala Ser Glu Met Ser Lys Gly Thr Val
      340              345              350
Ser Ala Ala Met Gly Met Leu Gln Met Leu Ile Phe Thr Val Gly Ile
      355              360              365
Glu Val Ser Lys His Ala Tyr Ala Phe Gly Gly Asn Gly Leu Phe Ser
      370              375              380
Leu Phe Asn Leu Ala Asn Gly Val Leu Trp Ile Ala Leu Met Val Val
385              390              395              400
Phe Leu Lys Asp Lys Arg Val Gly Asn Ala Leu Gln Pro
      405              410

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<210> 6758

<211> 163

<212> PRT

<213> Enterobacter cloacae

<400> 6758

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Gly Asn Tyr Met Ser Thr Pro Ala His Leu Trp Leu Glu Asp Glu Asn
1              5              10              15
Gly Ser Pro Ile Ile Gly Ser Cys Met Met Pro Thr Arg Leu Gly Ser
      20              25              30
Ile Glu Leu Lys Ser Phe Ser His Gly Val Thr Ile Pro Ala Asp Pro
      35              40              45
Ser Trp Gly Lys Leu Thr Gly Thr Arg Val His Arg Pro Ile Thr Ile
      50              55              60
Val Lys Glu Phe Asp Gln Thr Thr Pro Leu Leu Tyr Arg Ala Val Cys
65              70              75              80
Glu Gly Arg Val Met Lys Lys Gly Ile Ile Lys Met Tyr Arg Ile Leu
      85              90              95
Glu Ser Gly Ile Glu Ala Glu Tyr Phe Asn Ile Val Met Glu Asn Val
      100              105              110
Lys Phe Thr Thr Val Ala Pro Phe Met Thr Pro Asn Gly Met Ser Ser
      115              120              125
Thr His Leu Glu Thr Leu Glu Leu Arg Tyr Glu Ala Ile Ser Trp Lys
      130              135              140
Tyr Thr Glu Gly Asn Ile Ile Tyr Arg Asp Thr Trp Asn Asp Arg Cys
145              150              155              160
Cys Ala

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<210> 6759

<211> 431

<212> PRT

<213> Enterobacter cloacae

<400> 6759

Lys Met Phe Leu Ala Gly Ala Ile Phe Leu Phe Thr Leu Val Leu Val
 1 5 10 15
 Ile Trp Gln Pro Lys Gly Leu Ser Ile Gly Trp Ser Ala Thr Ile Gly
 20 25 30
 Ala Val Leu Ala Leu Met Ser Gly Val Ile His Ile Asn Asp Ile Pro
 35 40 45
 Val Val Trp Asn Ile Val Trp Asn Ala Thr Ala Thr Phe Ile Ala Val
 50 55 60
 Ile Ile Ile Ser Leu Leu Leu Asp Glu Ser Gly Phe Phe Glu Trp Ala
 65 70 75 80
 Ala Leu His Val Ala Arg Trp Gly Asn Gly Arg Gly Arg Leu Leu Phe
 85 90 95
 Thr Trp Ile Val Leu Leu Gly Ala Ala Val Ala Ala Leu Phe Ala Asn
 100 105 110
 Asp Gly Ala Ala Leu Ile Leu Thr Pro Ile Val Ile Ala Met Leu Leu
 115 120 125
 Ala Leu Gly Phe Ser Lys Gln Ala Thr Leu Ala Phe Val Met Ala Ala
 130 135 140
 Gly Phe Ile Ala Asp Thr Ala Ser Leu Pro Leu Ile Val Ser Asn Leu
 145 150 155 160
 Val Asn Ile Val Ser Ala Asp Phe Phe Lys Leu Gly Phe Ser Glu Tyr
 165 170 175
 Ala Ser Val Met Ile Pro Val Asp Ile Ala Ala Ile Ala Ala Thr Leu
 180 185 190
 Val Met Leu His Leu Phe Phe Arg Asn Glu Ile Pro Pro Glu Tyr Asp
 195 200 205
 Leu Ala Lys Leu Arg Glu Pro Ala Leu Ala Ile His Asp Leu Pro Thr
 210 215 220
 Phe Arg Thr Gly Trp Ile Val Leu Leu Leu Leu Val Gly Phe Phe
 225 230 235 240
 Val Leu Glu Pro Leu Gly Ile Pro Val Ser Ala Ile Ala Thr Thr Gly
 245 250 255
 Ala Leu Ile Leu Phe Ala Val Ala Lys Arg Gly His Ala Ile Asn Thr
 260 265 270
 Gly Lys Val Leu Arg Gly Ala Pro Trp Gln Ile Val Ile Phe Ser Leu
 275 280 285
 Gly Met Tyr Leu Val Val Tyr Gly Leu Arg Asn Ala Gly Leu Thr Glu
 290 295 300
 Ser Leu Ser Gly Val Leu Asp Tyr Leu Ala Gly Tyr Gly Leu Trp Val
 305 310 315 320
 Thr Thr Leu Gly Thr Gly Phe Ile Thr Ala Phe Leu Ser Ser Ile Met
 325 330 335
 Asn Asn Met Pro Thr Val Leu Ile Gly Ala Leu Ser Ile Glu Gly Ser
 340 345 350
 Ala Ala Thr Gly Leu Val Lys Glu Ala Met Ile Tyr Ala Asn Val Ile
 355 360 365
 Gly Cys Asp Leu Gly Pro Lys Ile Thr Pro Ile Gly Ser Leu Ala Thr
 370 375 380
 Leu Leu Trp Leu His Val Leu Ala Gln Lys Asn Met Thr Ile Thr Trp
 385 390 395 400
 Gly Tyr Tyr Phe Arg Thr Gly Ile Ile Met Thr Leu Pro Val Leu Phe
 405 410 415
 Val Thr Leu Ala Ala Leu Ala Leu Arg Leu Ser Phe Thr Leu
 420 425 430

<210> 6760

<211> 147

<212> PRT

<213> Enterobacter cloacae

<400> 6760

Val Thr Asp Met Ser His Ile Thr Ile Tyr His Asn Pro Ala Cys Gly
 1 5 10 15
 Thr Ser Arg Asn Thr Leu Glu Met Ile Arg Asn Ser Gly Thr Glu Pro
 20 25 30
 Glu Ile Ile Leu Tyr Leu Glu Asn Pro Pro Ser Arg Asp Glu Leu Thr
 35 40 45
 Arg Leu Ile Ala Asp Met Gly Ile Ser Ile Gly Asp Leu Leu Arg Lys
 50 55 60
 Asn Val Glu Pro Tyr Glu Gln Leu Gly Leu Ser Gln Gly His Phe Thr
 65 70 75 80
 Asp Asp Gln Leu Ile Asp Phe Met Leu Gln Tyr Pro Ile Leu Ile Asn
 85 90 95
 Arg Pro Ile Val Val Thr Pro Leu Gly Thr Arg Leu Cys Arg Pro Ser
 100 105 110
 Glu Val Val Leu Asp Ile Leu Pro Asp Ala Gln Lys Gly Ala Phe Thr
 115 120 125
 Lys Glu Asp Gly Glu Val Val Val Asp Ala Asn Gly Lys Lys Ile Ser
 130 135 140
 Arg Gln
 145

<210> 6761

<211> 459

<212> PRT

<213> Enterobacter cloacae

<400> 6761

Ile Pro Cys Ser Ala Met Val Ser Ser Val Ala Trp Ser Ile Phe Ser
 1 5 10 15
 Arg Arg Leu Gly Ser Phe Gly Gly Leu Leu Ile Lys Ser Ser Ser Ser
 20 25 30
 Leu Cys Thr Asn Val His Lys Val Ala Ser Val Val Ala Ile Val Val
 35 40 45
 Leu Leu Val Leu Ile Pro Met Thr Leu Thr Ser Pro Arg Lys Ala Leu
 50 55 60
 His Leu Arg Met Trp Ala Leu Phe Met Phe Phe Ile Pro Gly Leu
 65 70 75 80
 Leu Met Ala Ser Trp Ala Thr Arg Thr Pro Ala Ile Arg Asp Thr Leu
 85 90 95
 Ser Val Ser Thr Ala Glu Met Gly Ile Val Leu Phe Gly Leu Ser Ile
 100 105 110
 Gly Ser Met Ser Gly Ile Leu Cys Ser Ala Trp Leu Val Lys Arg Phe
 115 120 125
 Gly Thr Arg Ala Val Ile Arg Thr Thr Met Cys Cys Ala Val Val Gly
 130 135 140
 Met Leu Gly Leu Ser Val Ala Leu Trp Phe Ala Ser Pro Leu Met Phe
 145 150 155 160
 Ala Leu Gly Leu Met Val Phe Gly Gly Ser Phe Gly Ala Ala Glu Val
 165 170 175
 Ala Ile Asn Val Glu Gly Ala Ala Val Glu Gln Ala Met Asn Lys Thr
 180 185 190
 Val Leu Pro Met Met His Gly Phe Tyr Ser Leu Gly Thr Leu Ala Gly
 195 200 205
 Ala Gly Val Gly Met Ala Leu Thr Ala Leu Gly Ile Ala Ala Asn Val
 210 215 220
 His Ile Leu Leu Ala Ala Leu Val Cys Ile Ile Pro Ile Leu Thr Gly
 225 230 235 240
 Ile Arg Ala Ile Pro Ala Gly Thr Gly Gln His Ala Thr Asp Glu Gln
 245 250 255
 Lys Ser Ala Glu Lys Gly Leu Pro Phe Tyr Arg Asp Phe Gln Leu Met
 260 265 270

Leu Ile Gly Val Val Val Leu Ala Met Ala Phe Ala Glu Gly Ser Ala
 275 280 285
 Asn Asp Trp Leu Pro Leu Leu Met Val Asp Gly His Gly Phe Ser Pro
 290 295 300
 Thr Ser Gly Ser Leu Ile Tyr Ala Gly Phe Thr Leu Gly Met Thr Val
 305 310 315 320
 Gly Arg Phe Thr Gly Gly Trp Phe Ile Asp Arg Tyr Ser Arg Val Ala
 325 330 335
 Val Val Arg Ala Ser Ala Leu Leu Gly Gly Leu Gly Ile Ala Met Ile
 340 345 350
 Ile Phe Val Asp Val Asp Trp Ile Ala Gly Val Ser Val Ile Leu Trp
 355 360 365
 Gly Leu Gly Ala Ser Leu Gly Phe Pro Leu Thr Ile Ser Ala Ala Ser
 370 375 380
 Asp Thr Gly Pro Asp Ala Pro Thr Arg Val Ser Val Val Ala Thr Thr
 385 390 395 400
 Gly Tyr Leu Ala Phe Leu Val Gly Pro Pro Leu Leu Gly Phe Leu Gly
 405 410 415
 Glu His Tyr Gly Leu Arg Ser Ala Met Leu Val Val Leu Gly Leu Val
 420 425 430
 Ile Ile Ala Ala Leu Val Ala Arg Ala Val Ala Lys Pro Glu Ala Glu
 435 440 445
 Thr Thr Ser Met Glu Lys Gly Tyr Glu Arg
 450 455

<210> 6762

<211> 247

<212> PRT

<213> Enterobacter cloacae

<400> 6762

Trp Asp Ser Gly Arg Ser Cys Ala Ala Arg Ile Phe Ser Leu Thr Thr
 1 5 10 15
 Cys Gly Pro Gly Gly Gly Ser Gly Phe Pro Arg Cys Trp Phe Thr Gly
 20 25 30
 Trp Phe Pro Pro Gly Leu Leu Lys Ser Asn Glu Ile Met Leu Glu Asn
 35 40 45
 Leu Asn Tyr Glu Leu Phe Tyr Leu Leu Asn Ala Thr Pro Ser Ser Pro
 50 55 60
 Glu Trp Met Ile Asp Leu Ala Thr Phe Ile Ala Lys Asp Val Ile Ser
 65 70 75 80
 Ile Val Pro Ala Leu Ala Val Ile Leu Trp Leu Trp Gly Pro Arg Thr
 85 90 95
 Gln Val Thr Ala Gln Arg His Leu Val Ile Lys Met Ala Met Ala Ile
 100 105 110
 Gly Val Ser Val Leu Ala Ser Tyr Val Leu Gly His Ala Phe Pro His
 115 120 125
 Asp Arg Pro Phe Val Asp Arg Val Gly Tyr Asn Phe Leu His His Ala
 130 135 140
 Pro Asp Asp Ser Phe Pro Ser Asp His Gly Thr Val Ile Phe Thr Phe
 145 150 155 160
 Ala Leu Ala Phe Leu Phe Trp His Arg Leu Trp Ser Gly Val Val Leu
 165 170 175
 Met Gly Val Ala Val Ala Ile Ala Trp Ser Arg Val Tyr Leu Gly Val
 180 185 190
 His Trp Pro Leu Asp Met Val Gly Phe Leu Val Gly Leu Met Gly
 195 200 205
 Cys Val Ser Ala Ala Ile Leu Trp Ser Leu Phe Gly Pro Ala Leu Tyr
 210 215 220
 Arg Gly Leu Ser Gln Ala Tyr Arg Val Leu Phe Ala Leu Pro Ile Arg
 225 230 235 240

Lys Gly Trp Ile Arg Asp
245

<210> 6763

<211> 143

<212> PRT

<213> Enterobacter cloacae

<400> 6763

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Arg Val Leu Gln Ser Leu Phe Tyr Pro Ser Cys Tyr Leu Leu Leu Leu
1      5      10      15
Ser Phe Thr Thr Ile Lys Tyr Asp Leu Met His Met Lys Gln Asn Ile
      20      25      30
Gln Asp Asp Arg Met Leu His Pro Leu Gln Leu Phe Lys Thr Leu Ser
      35      40      45
Asp Glu Thr Arg Leu Ser Ile Val Met Leu Leu Arg Glu Ala Gly Glu
      50      55      60
Leu Cys Val Cys Asp Leu Cys Ser Ala Thr Asn Glu Pro Gln Pro Lys
65      70      75      80
Val Ser Arg His Met Ala Leu Leu Arg Glu Ala Gly Leu Val Ile Asp
      85      90      95
Arg Arg Glu Gly Lys Trp Ile Tyr Tyr Arg Leu Ser Pro Asn Met Pro
      100     105     110
Ala Trp Ala Ala Thr Val Ile Asp Asn Ser Trp Asn Cys Leu Arg Glu
      115     120     125
Glu Thr Arg Met Lys Leu Lys Asn Arg Leu Pro Gly Ser Cys
      130     135     140

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<210> 6764

<211> 295

<212> PRT

<213> Enterobacter cloacae

<400> 6764

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Ser Leu Leu Pro Pro Trp Trp Arg Glu Arg Trp Gln Asn Arg Lys Gln
1      5      10      15
Lys Gln Arg Gln Trp Arg Arg Asp Met Ser Val Lys Leu Ile Ala Val
      20      25      30
Asp Met Asp Gly Ser Phe Leu Ser Asp Ala Lys Thr Tyr Asn Arg Ala
      35      40      45
Arg Phe Leu Ala Gln Tyr Ala Arg Met Lys Ala Gln Gly Ile Arg Phe
      50      55      60
Val Val Ala Ser Gly Asn Gln Tyr Tyr Gln Leu Ile Ser Phe Phe Pro
65      70      75      80
Glu Ile Ala His Glu Ile Ala Phe Val Ala Glu Asn Gly Gly Trp Val
      85      90      95
Val Asp Ala Gly Glu Asp Val Phe Asn Gly Glu Leu Ser Lys Glu His
      100     105     110
Phe Leu Thr Val Ala Thr Leu Leu Asn Asp Val Pro Gly Ile Glu Ile
      115     120     125
Ile Ala Cys Gly Lys Asn Ser Ala Tyr Thr Leu Lys Thr Tyr Asn Asp
      130     135     140
Leu Phe Lys Glu Ile Ala Ala Lys Tyr Tyr His Arg Leu Glu Ser Val
145     150     155     160
Ser Ser Phe Asp Asn Leu Asn Asp Ile Phe Phe Lys Phe Gly Leu Asn
      165     170     175
Val Ser Asp Asp Glu Ile Pro Arg Ile Gln Ala Leu Leu His Glu Lys
      180     185     190
Leu Gly Asp Ile Met Val Pro Val Thr Thr Gly His Gly Ser Ile Asp
      195     200     205
Leu Ile Ile Pro Gly Val His Lys Ala Asn Gly Leu Arg Ile Leu Gln

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210	215	220
Ala Arg Trp Gly Ile Glu Asp Ser Glu Val Val Ala Phe Gly Asp Ser		
225	230	235
Gly Asn Asp Val Glu Met Leu Arg Gln Ala Gly Phe Gly Phe Ala Met		
	245	250
Ala Asn Ala Arg Pro His Ile Lys Ala Val Ala Arg Tyr Glu Ala Pro		
	260	265
Asn Asn Asn Asp Glu Gly Val Leu Asp Val Ile Asp Arg Val Leu Asp		
	275	280
Gly Glu Ala Pro Phe Asn		285
290	295	

<210> 6765

<211> 267

<212> PRT

<213> Enterobacter cloacae

<400> 6765

Ala Pro Ala Leu Arg Gly Leu Thr Phe Leu Ala Arg Gly Ser Met Glu	
1	5
Thr Arg Arg Asp Asp Arg Ile Ala Gln Leu Leu Gln Ala Leu Lys Arg	
	20
Ser Asp Lys Leu His Leu Lys Glu Ala Ala Thr Leu Leu Gly Val Ser	
	35
Glu Met Thr Ile Arg Arg Asp Leu Asn Asn Asp Ser Ala Pro Val Val	
	50
Leu Leu Gly Gly Tyr Ile Val Leu Glu Pro Arg Ser Ala Ser His Tyr	
65	70
Leu Leu Ser Asp Gln Lys Thr Arg Leu Val Glu Glu Lys Arg Lys Ala	
	85
Ala Arg Leu Ala Ala Ser Leu Val Gln Pro His Gln Thr Leu Phe Phe	
	100
Asp Cys Gly Thr Thr Thr Pro Trp Ile Ile Glu Ala Ile Asn Ser Thr	
	115
Val Pro Phe Thr Ala Val Cys Tyr Ser Leu Asn Thr Phe Leu Ala Leu	
	130
Gln Glu Lys Pro Ala Cys Arg Val Ile Leu Cys Gly Gly Glu Phe His	
145	150
Ala Ser Asn Ala Ile Phe Lys Pro Leu Asn Ile Gln Asp Thr Leu Ser	
	165
Asn Val Cys Pro Asp Ile Ala Phe Tyr Ser Ala Ala Gly Val Asn Val	
	180
Lys Gln Gly Ala Thr Cys Phe Asn Leu Glu Glu Leu Pro Val Lys Gln	
	195
Trp Ala Leu Asn Ala Ala Gln Gln His Val Leu Val Val Asp His Ser	
	210
Lys Phe Gly Lys Val Arg Pro Ala Arg Met Gly Glu Leu Ser Arg Phe	
225	230
Asp Ala Ile Val Ser Asp Cys Arg Pro Asp Asp Glu Leu Val Ala Tyr	
	245
Ala Lys Ala Gln Gln Val Lys Leu Met Tyr	
	260

<210> 6766

<211> 136

<212> PRT

<213> Enterobacter cloacae

<400> 6766

Gly Phe Thr Glu Lys Asp Lys Val Met Arg His Arg Lys Ser Gly Arg
1
5
10
15

Gln Leu Asn Arg Asn Ser Ser His Arg Gln Ala Met Phe Arg Asn Met
 20 25 30
 Ala Gly Ser Leu Val Arg His Glu Ile Ile Lys Thr Thr Leu Pro Lys
 35 40 45
 Ala Lys Glu Leu Arg Arg Val Val Glu Pro Leu Ile Thr Leu Ala Lys
 50 55 60
 Thr Asp Ser Val Ala Asn Arg Arg Leu Ala Phe Ala Arg Thr Arg Asp
 65 70 75 80
 Asn Glu Ile Val Ala Lys Leu Phe Asn Glu Leu Gly Pro Arg Phe Ala
 85 90 95
 Ser Arg Ala Gly Tyr Thr Arg Ile Leu Lys Cys Gly Phe Arg Ala
 100 105 110
 Gly Asp Asn Ala Pro Met Ala Tyr Ile Glu Leu Val Asp Arg Ser Glu
 115 120 125
 Lys Ala Glu Ala Ala Ala Glu
 130 135

<210> 6767

<211> 162

<212> PRT

<213> Enterobacter cloacae

<400> 6767

Gly Gly His Ala Met Phe Asp Val Leu Met Tyr Leu Phe Glu Thr Tyr
 1 5 10 15
 Ile His Asn Glu Ala Glu Met Gln Val Asp Gln Asp Lys Leu Thr Arg
 20 25 30
 Asp Leu Thr Asp Ala Gly Phe Glu Arg Glu Asp Ile Tyr Asn Ala Leu
 35 40 45
 Met Trp Leu Asp Lys Leu Ala Asp Tyr Gln Asp Gly Leu Ala Glu Pro
 50 55 60
 Met Gln Leu Ala Ser Asp Pro Leu Ser Val Arg Ile Tyr Thr Ala Glu
 65 70 75 80
 Glu Cys Glu Arg Leu Asp Ala Ser Cys Arg Gly Phe Ile Leu Phe Leu
 85 90 95
 Glu Gln Ile Gln Val Leu Asn Leu Glu Thr Arg Glu Met Val Ile Glu
 100 105 110
 Arg Val Met Ala Leu Asp Thr Ala Glu Phe Glu Leu Glu Asp Leu Lys
 115 120 125
 Trp Val Ile Leu Met Val Leu Phe Asn Ile Pro Gly Cys Glu Asn Ala
 130 135 140
 Tyr Gln Gln Met Glu Glu Leu Leu Phe Glu Val Asn Glu Gly Met Leu
 145 150 155 160
 His

<210> 6768

<211> 209

<212> PRT

<213> Enterobacter cloacae

<400> 6768

Asn Ala Phe Ala Pro Val Asn Asn Val Glu Ser Arg Phe Arg Arg Ile
 1 5 10 15
 Lys Ser Val Asn Asn Leu Pro Ser Gly Ser Ile Ala Gln Ala Val
 20 25 30
 Glu Ile Leu Lys Lys Glu Glu Val Ile Ala Tyr Pro Thr Glu Ala Val
 35 40 45
 Phe Gly Val Gly Cys Asp Pro Asp Ser Glu Val Ala Val Asn Arg Leu
 50 55 60
 Leu Ala Leu Lys Gln Arg Pro Val Glu Lys Gly Leu Ile Leu Ile Ala

65				70					75				80		
Ala	Asn	Tyr	Ala	Gln	Leu	Lys	Pro	Tyr	Ile	Asp	Asp	Ser	Met	Leu	Thr
				85					90					95	
Pro	Ala	Gln	Arg	Glu	Thr	Ile	Phe	Ser	Ala	Trp	Pro	Gly	Pro	Val	Thr
			100					105					110		
Phe	Val	Phe	Pro	Ala	Gln	Pro	Thr	Thr	Pro	Arg	Trp	Leu	Thr	Gly	Arg
		115					120					125			
Phe	Asp	Ser	Leu	Ala	Val	Arg	Val	Thr	Asp	His	Pro	Leu	Val	Val	Glu
	130					135					140				
Leu	Cys	Gln	Ala	Phe	Gly	Lys	Pro	Leu	Val	Ser	Thr	Ser	Ala	Asn	Leu
145					150					155					160
Thr	Gly	Leu	Pro	Pro	Cys	Arg	Thr	Thr	Glu	Glu	Val	Leu	Ala	Gln	Phe
				165					170					175	
Gly	Ser	Asp	Phe	Pro	Val	Ala	Val	Gly	Glu	Thr	Gly	Gly	Arg	Leu	Asn
			180					185					190		
Pro	Ser	Glu	Ile	Arg	Asp	Ala	Leu	Thr	Gly	Glu	Arg	Phe	Arg	Gln	Gly
		195					200					205			

<210> 6769
 <211> 122
 <212> PRT
 <213> Enterobacter cloacae

<400> 6769
 Glu Cys Ile Val Ala Arg Ile Ala Gly Ile Asn Ile Pro Asp Gln Lys
 1 5 10 15
 His Ala Val Ile Ala Leu Thr Ser Ile Tyr Gly Val Gly Lys Thr Arg
 20 25 30
 Ser Lys Ala Ile Leu Ala Ala Ala Gly Ile Ala Glu Asp Val Lys Ile
 35 40 45
 Ser Glu Leu Ser Glu Glu Gln Ile Asp Thr Leu Arg Asp Glu Val Ala
 50 55 60
 Lys Phe Val Val Glu Gly Asp Leu Arg Arg Glu Ile Ser Met Ser Ile
 65 70 75 80
 Lys Arg Leu Met Asp Leu Gly Cys Tyr Arg Gly Leu Arg His Arg Arg
 85 90 95
 Gly Leu Pro Val Arg Gly Gln Arg Thr Lys Thr Asn Ala Arg Thr Arg
 100 105 110
 Lys Gly Pro Arg Lys Pro Ile Lys Lys
 115 120

<210> 6770
 <211> 208
 <212> PRT
 <213> Enterobacter cloacae

<400> 6770
 Lys Met Ala Arg Tyr Leu Gly Pro Lys Leu Lys Leu Ser Arg Arg Glu
 1 5 10 15
 Gly Thr Asp Leu Phe Leu Lys Ser Gly Val Arg Ala Ile Asp Thr Lys
 20 25 30
 Cys Lys Ile Glu Gln Ala Pro Gly Gln His Gly Ala Arg Lys Pro Arg
 35 40 45
 Leu Ser Asp Tyr Gly Val Gln Leu Arg Glu Lys Gln Lys Val Arg Arg
 50 55 60
 Ile Tyr Gly Val Leu Glu Arg Gln Phe Arg Asn Tyr Tyr Lys Glu Ala
 65 70 75 80
 Ala Arg Leu Lys Gly Asn Thr Gly Glu Asn Leu Leu Ala Leu Leu Glu
 85 90 95

Gly Arg Leu Asp Asn Val Val Tyr Arg Met Gly Phe Gly Ala Thr Arg
 100 105 110
 Ala Glu Ser Arg Gln Leu Val Ser His Lys Ala Ile Met Val Asn Gly
 115 120 125
 Arg Val Val Asn Ile Ala Ser Tyr Gln Val Lys Ala Asn Asp Val Val
 130 135 140
 Ser Ile Arg Glu Lys Ala Lys Lys Gln Ser Arg Val Lys Ala Ala Leu
 145 150 155 160
 Glu Leu Ala Glu Gln Arg Glu Lys Pro Thr Trp Leu Glu Val Asp Ala
 165 170 175
 Gly Lys Met Glu Ser Thr Phe Lys Arg Gln Pro Glu Arg Pro Asp Leu
 180 185 190
 Ser Ala Asp Ile Asn Glu His Leu Ile Val Glu Leu Tyr Ser Lys
 195 200 205

<210> 6771

<211> 153

<212> PRT

<213> Enterobacter cloacae

<400> 6771

Lys Val Asn Thr Lys Asn Lys Gln Gly Val Ala Met Tyr Arg Ile Gly
 1 5 10 15
 Glu Leu Ala Lys Leu Ala Asn Val Thr Pro Asp Thr Ile Arg Tyr Tyr
 20 25 30
 Glu Lys Gln Gln Met Ile Asp His Glu Val Arg Thr Glu Gly Gly Phe
 35 40 45
 Arg Leu Tyr Thr Asp Asn Asp Leu Gln Arg Leu Arg Phe Ile Arg Tyr
 50 55 60
 Ala Arg Gln Leu Gly Phe Thr Leu Glu Ser Ile Arg Glu Leu Leu Ser
 65 70 75 80
 Ile Arg Ile Asp Pro Glu His His Thr Cys Gln Glu Ser Lys Ser Ile
 85 90 95
 Val Gln Ala Arg Leu Asp Glu Val Glu Gly Arg Ile Gln Glu Leu Gln
 100 105 110
 Ala Met Gln Arg Ser Leu Gln Arg Leu Asn Asp Pro Cys Cys Gly Thr
 115 120 125
 Ala His Ser Ser Val Tyr Cys Ser Ile Leu Glu Ala Leu Glu Gln Gly
 130 135 140
 Ala Ser Ser Glu Ala Gln Gly Cys
 145 150

<210> 6772

<211> 78

<212> PRT

<213> Enterobacter cloacae

<400> 6772

Leu Cys Ser Gly Glu Met Met Ser Arg Tyr Gln His Thr Lys Gly His
 1 5 10 15
 Ile Lys Asp Asn Ala Ile Glu Ala Leu Leu His Asp Pro Leu Phe Arg
 20 25 30
 Gln Arg Val Glu Lys Asn Lys Lys Gly Lys Gly Ser Tyr Leu Arg Lys
 35 40 45
 Gly Lys His Ala Gln Arg Gly Lys Trp Glu Ala Ser Gly Lys Gln Ala
 50 55 60
 Asn Arg Phe Phe Thr Thr Gly Leu Ser Val Ser Val Ser
 65 70 75

<210> 6773

<211> 102

<212> PRT

<213> Enterobacter cloacae

<400> 6773

```

Pro Ala Asn Val Phe Ala Arg Asp Asn Val Met Glu Thr Tyr Ala Val
1          5          10          15
Phe Gly Asn Pro Ile Ala His Ser Lys Ser Pro Leu Ile His Gln Leu
          20          25          30
Phe Ala Glu Gln Leu Gln Ile Asp His Pro Tyr Gly Arg Val Leu Ala
          35          40          45
Pro Val Asp Ala Phe Leu Pro Thr Leu Asn Ser Phe Phe Val Ala Gly
          50          55          60
Gly Lys Gly Ala Asn Val Thr Val Pro Phe Lys Glu Glu Ala Phe Gly
65          70          75          80
Arg Ala Asp Glu Leu Thr Glu Arg Ala Cys Leu Leu Pro Arg Gly Leu
          85          90          95
Ala Gly Pro Leu Ile Glu
          100

```

<210> 6774

<211> 131

<212> PRT

<213> Enterobacter cloacae

<400> 6774

```

Ile Met Ala Lys Ala Pro Val Arg Ala Arg Lys Arg Val Arg Lys Gln
1          5          10          15
Val Ser Asp Gly Val Ala His Ile His Ala Ser Phe Asn Asn Thr Ile
          20          25          30
Val Thr Ile Thr Asp Arg Gln Gly Asn Ala Leu Gly Trp Ala Thr Ala
          35          40          45
Gly Gly Ser Gly Phe Arg Gly Ser Arg Lys Ser Thr Pro Phe Ala Ala
          50          55          60
Gln Val Ala Ala Glu Arg Cys Ala Glu Ala Val Lys Glu Tyr Gly Ile
65          70          75          80
Lys Asn Leu Glu Val Met Val Lys Gly Pro Gly Pro Gly Arg Glu Ser
          85          90          95
Thr Val Arg Ala Leu Asn Ala Ala Gly Phe Arg Ile Thr Asn Ile Thr
          100          105          110
Asp Val Thr Pro Ile Pro His Asn Gly Cys Arg Pro Pro Lys Lys Arg
          115          120          125
Arg Val
          130

```

<210> 6775

<211> 336

<212> PRT

<213> Enterobacter cloacae

<400> 6775

```

Tyr Gln Arg Glu Asp Thr Met Gln Gly Ser Val Thr Glu Phe Leu Lys
1          5          10          15
Pro Arg Leu Val Asp Ile Glu Gln Val Ser Ser Thr His Ala Lys Val
          20          25          30
Thr Leu Glu Pro Leu Glu Arg Gly Phe Gly His Thr Leu Gly Asn Ala
          35          40          45
Leu Arg Arg Ile Leu Leu Ser Ser Met Pro Gly Cys Ala Val Thr Glu
          50          55          60
Val Glu Ile Asp Gly Val Leu His Glu Tyr Ser Thr Lys Glu Ser Val
65          70          75          80
Gln Glu Asp Ile Leu Glu Ile Leu Leu Asn Leu Lys Gly Leu Ala Val

```

```
<210> 6776
<211> 170
<212> PRT
<213> Enterobacter cloacae
```

Ser	Phe	Arg	Glu	Ser	Arg	Ser	Cys	Cys	Arg	Val	Ile	Cys	Ser	Asn	Val
1				5					10					15	
Lys	Lys	Pro	Ala	Ser	Ala	Gly	Phe	Phe	Ile	Ser	Ala	Glu	Ser	Pro	Leu
		20					25					30			
Ile	Tyr	Asn	Val	Cys	Ile	Phe	Ser	Ala	His	Pro	Leu	Glu	Phe	Ile	Met
		35				40					45				
Trp	Leu	Leu	Asp	Gln	Trp	Ser	Glu	Arg	His	Ile	Cys	Asp	Ala	Gln	Asn
	50				55					60					
Lys	Gly	Glu	Phe	Glu	Asn	Leu	Pro	Gly	Ser	Gly	Glu	Pro	Leu	Ile	Leu
65				70					75					80	
Asp	Asp	Asp	Ser	His	Ile	Pro	Pro	Glu	Leu	Arg	Ala	Gly	Tyr	Arg	Leu
			85					90					95		
Leu	Lys	Asn	Ala	Gly	Cys	Leu	Pro	Pro	Glu	Leu	Gln	Gln	Arg	Asn	Glu
		100					105					110			
Ala	Val	Glu	Leu	Ala	Asp	Leu	Leu	Lys	Gly	Ile	His	Lys	Asn	Asp	Pro
		115				120					125				
Arg	Tyr	Ser	Glu	Ile	Ser	Arg	Arg	Leu	Ala	Leu	Ile	Glu	Leu	Lys	Leu
	130				135						140				
Arg	Gln	Thr	Gly	Met	Asn	Thr	Asp	Phe	Leu	His	Gly	Glu	Tyr	Ser	Glu
145				150					155						160
Arg	Leu	Ile	Gln	Lys	Ile	Asn	Lys	Glu							
			165					170							

<210> 6777

<211> 400

<212> PRT

<213> Enterobacter cloacae

<400> 6777

```

Thr Asn Pro Arg Ser Ile Asp Ser Ile Ser Asp Gln Ser Gln Arg Leu
1      5      10      15
Leu Arg Leu Leu Met Ala Gly Lys Arg Met Thr Ser Thr Glu Ile Trp
      20      25      30
Leu Arg Leu Ile Asn Ile Gly Ser Leu Tyr Gly Asp Ala Met Leu Glu
      35      40      45
Ile Ala Gln Arg Leu Leu Arg Gln Ala Thr Val Asp Ala Glu Ala Val
      50      55      60
Asn Ala Ala Gly Leu Ser Pro Lys His Ala Val Lys Phe Phe Ser Phe
65      70      75      80
Ser Glu Ser Glu Leu Glu Arg Ser Leu Glu Trp Leu Glu His Thr Asp
      85      90      95
Asn His Leu Leu Thr Ala Asp Asp Pro Arg Phe Pro Pro Leu Leu Arg
      100      105      110
Ser Ile Pro Asp Phe Pro Gly Ala Leu Phe Val Arg Gly Arg Val Asp
      115      120      125
Val Leu Asn Ser Met Gln Leu Ala Val Val Gly Ser Arg Ala Pro Ser
      130      135      140
Trp Tyr Gly Glu Arg Trp Gly Lys Met Leu Ser Glu Gln Leu Ser Gln
145      150      155      160
Cys Gly Phe Thr Ile Thr Ser Gly Leu Ala Cys Gly Ile Asp Gly Val
      165      170      175
Ala His His Ala Ala Leu Ser Ala Lys Gly Arg Ser Val Ala Val Leu
      180      185      190
Gly Asn Gly Leu Phe Ser Leu Tyr Pro Arg Arg His His Ile Leu Ala
      195      200      205
Glu Gln Leu Ile Ala Ser Glu Gly Ala Ile Val Ser Glu Phe Ser Leu
      210      215      220
Ser Thr Ser Pro Arg Pro Gly Asn Phe Pro Arg Arg Asn Arg Ile Ile
225      230      235      240
Ser Gly Leu Ser Gln Gly Val Leu Val Val Glu Ala Ala Ile Arg Ser
      245      250      255
Gly Ser Leu Val Thr Ala Arg Cys Ala Leu Glu Gln Gly Arg Glu Val
      260      265      270
Phe Ala Leu Pro Gly Pro Leu Gly Asn Pro Gly Cys Glu Gly Pro His
      275      280      285
Trp Leu Ile Lys Gln Gly Ala Thr Leu Val Thr Cys Lys Glu Asp Ile
      290      295      300
Leu Glu Asn Leu Gln Tyr Gly Leu His Trp Leu Gln Asp Asp Leu Gln
305      310      315      320
Lys Arg His Ile Ser Ser Asp Gln Glu Ala Val Ala Leu Pro Phe Pro
      325      330      335
Lys Leu Leu Ala Asn Val Gly Asp Glu Val Thr Pro Val Asp Val Val
      340      345      350
Ala Glu Arg Ala Gly Gln Pro Val Pro Val Thr Val Ala Gln Leu Leu
      355      360      365
Glu Leu Glu Leu Ala Gly Trp Ile Ala Ala Val Pro Gly Gly Tyr Val
      370      375      380
Arg Leu Arg Arg Ala Cys His Val Arg Arg Thr Asp Val Phe Val
385      390      395      400

```

<210> 6778

<211> 199

<212> PRT

<213> Enterobacter cloacae

<400> 6778

Arg Tyr Ala Ala Leu Ile Leu Cys Ala Ala Thr Arg Val Val Met Ala
 1 5 10 15
 Lys Ser Ala Leu Phe Thr Val His Lys Asn Glu Pro Cys Pro Gln Cys
 20 25 30
 Gly Ala Glu Leu Val Ile Arg Ser Gly Lys His Gly Pro Phe Leu Gly
 35 40 45
 Cys Ser His Tyr Pro Glu Cys Asp Tyr Val Arg Ser Leu Lys Ser Gln
 50 55 60
 Ala Asp Gly His Ile Val Lys Ile Leu Glu Gly Gln Leu Cys Pro Leu
 65 70 75 80
 Cys Gly Gly Glu Leu Ala Leu Arg Gln Gly Arg Phe Gly Met Phe Ile
 85 90 95
 Gly Cys Ser Arg Tyr Pro Glu Cys Asp His Thr Glu Gln Ile Asp Lys
 100 105 110
 Pro Asp Glu Thr Ala Ile Ala Cys Pro Gln Cys Gln Arg Gly Gln Leu
 115 120 125
 Val Gln Arg Arg Ser Arg Tyr Gly Lys Thr Phe His Ser Cys Asp Arg
 130 135 140
 Tyr Pro Glu Cys Gln Phe Val Ile Asn Phe Lys Pro Val Ala Gly Val
 145 150 155 160
 Cys His Asn Cys Asp Tyr Pro Leu Leu Ile Glu Lys Lys Thr Ala Gln
 165 170 175
 Gly Leu Lys Arg Phe Cys Ala Ser Lys Gln Cys Gly Lys Pro Val Ser
 180 185 190
 Ala Asp Gln Ile Ser Glu
 195

<210> 6779

<211> 441

<212> PRT

<213> Enterobacter cloacae

<400> 6779

Gly Pro Val Phe Pro Gly Ile Phe Ile Phe Thr Val Met Lys Arg Gln
 1 5 10 15
 Asn Leu Arg Thr Met Ala Ala Gln Ala Val Glu Gln Val Ile Glu Gln
 20 25 30
 Gly Gln Ser Leu Ser Asn Val Leu Pro Pro Leu Gln Gln Lys Val Ser
 35 40 45
 Asp Lys Asp Lys Ala Leu Leu Gln Glu Leu Cys Phe Gly Val Leu Arg
 50 55 60
 Thr Leu Ser Gln Leu Glu Trp Leu Ile Asn Lys Leu Met Ser Arg Pro
 65 70 75 80
 Met Ser Gly Lys Gln Arg Thr Val His Tyr Leu Ile Met Val Gly Phe
 85 90 95
 Tyr Gln Leu Leu His Thr Arg Ile Pro Pro His Ala Ala Leu Ala Glu
 100 105 110
 Thr Val Glu Gly Ala Val Ala Ile Lys Arg Pro Gln Leu Lys Gly Leu
 115 120 125
 Ile Asn Gly Val Leu Arg Gln Phe Gln Arg Gln Gln Asp Glu Leu Leu
 130 135 140
 Ala Glu Phe Ala Gln Ser Glu Ala Arg Phe Leu His Pro Glu Trp Leu
 145 150 155 160
 Leu Asn Arg Leu Lys Lys Ala Tyr Pro Gln Gln Trp Gln Asp Ile Val
 165 170 175
 Asp Ala Asn Asn Gln Arg Pro Pro Met Trp Leu Arg Val Asn Arg Asn
 180 185 190
 His His Thr Arg Asp Ala Trp Leu Ala Leu Leu Glu Glu Thr Gly Met
 195 200 205


```

Ser Gly Phe Thr His Ala Ala Tyr Pro Asp Ala Val Arg Leu Ala Ser
 210          215          220
Pro Ala Pro Val His Ala Leu Pro Gly Phe Glu Glu Gly Trp Val Thr
225          230          235          240
Val Gln Asp Ala Ser Ala Gln Gly Cys Met Ala Trp Leu Glu Pro Lys
          245          250          255
Asp Gly Glu Gln Ile Leu Asp Leu Cys Ala Ala Pro Gly Gly Lys Thr
          260          265          270
Thr His Ile Leu Glu Val Ala Pro Gln Ala Cys Val Met Ala Val Asp
          275          280          285
Val Asp Glu Gln Arg Leu Ser Arg Val Tyr Asp Asn Leu Lys Arg Leu
          290          295          300
Gly Met Lys Ala Gln Val Lys Gln Gly Asp Gly Arg Lys Pro Ala Asp
305          310          315          320
Trp Cys Gly Asp Thr Arg Phe Asp Arg Ile Leu Leu Asp Ala Pro Cys
          325          330          335
Ser Ala Thr Gly Val Ile Arg Arg His Pro Asp Ile Lys Trp Leu Arg
          340          345          350
Arg Asp Arg Asp Ile Lys Glu Leu Ala Gln Leu Gln Ser Glu Ile Leu
          355          360          365
Asp Ala Ile Trp Pro His Leu Lys Pro Gly Gly Thr Leu Val Tyr Ala
          370          375          380
Thr Cys Ser Val Leu Pro Glu Glu Asn Ser Gln Gln Ile Ala Ala Phe
385          390          395          400
Leu Lys Arg Thr Pro Asp Ala Thr Leu His Asp Thr Gly Thr Pro Glu
          405          410          415
His Pro Gly Leu Gln Asn Leu Pro Gly Ala Glu Glu Gly Asp Gly Phe
          420          425          430
Phe Tyr Ala Lys Leu Ile Lys Glu
          435          440

```

<210> 6780

<211> 470

<212> PRT

<213> Enterobacter cloacae

<400> 6780

```

Ser Lys Ser Asp Val Glu Asn Arg Ser Arg Lys Met Lys Ile Ile Ile
1          5          10          15
Leu Gly Ala Gly Gln Val Gly Gly Thr Leu Ala Glu Asn Leu Val Gly
          20          25          30
Glu Asn Asn Asp Ile Thr Ile Val Asp Thr Asn Gly Asp Arg Leu Arg
          35          40          45
Val Leu Gln Asp Lys Phe Asp Leu Arg Val Val Gln Gly His Gly Ser
          50          55          60
His Pro Arg Val Leu Arg Glu Ala Gly Ala Asp Asp Ala Asp Met Leu
65          70          75          80
Val Ala Val Thr Ser Ser Asp Glu Thr Asn Met Val Ala Cys Gln Val
          85          90          95
Ala Tyr Ser Leu Phe Asn Thr Pro Asn Arg Ile Ala Arg Ile Arg Ser
          100          105          110
Pro Asp Tyr Val Arg Asp Ala Glu Lys Leu Phe Asn Ser Glu Ala Val
          115          120          125
Pro Ile Asp His Leu Ile Ala Pro Glu Gln Leu Val Ile Asp Ser Ile
          130          135          140
Tyr Arg Leu Ile Glu Tyr Pro Gly Ala Leu Gln Val Val Asn Phe Ala
145          150          155          160
Glu Gly Lys Val Ser Leu Ala Val Val Lys Ala Tyr Tyr Gly Gly Pro
          165          170          175
Leu Ile Gly Asn Ala Leu Ser Thr Met Arg Glu His Met Pro His Ile
          180          185          190

```

Asp Thr Arg Val Ala Ala Ile Phe Arg His Asp Arg Pro Ile Arg Pro
 195 200 205
 Gln Gly Ser Thr Ile Val Glu Ala Gly Asp Glu Val Phe Phe Ile Ala
 210 215 220
 Ala Ser Gln His Ile Arg Ala Val Met Ser Glu Leu Gln Arg Leu Glu
 225 230 235 240
 Lys Pro Tyr Lys Arg Ile Met Leu Val Gly Gly Gly Asn Ile Gly Ala
 245 250 255
 Gly Leu Ala Arg Arg Leu Glu Lys Asp Tyr Ser Val Lys Leu Ile Glu
 260 265 270
 Arg Asp Gln Gln Arg Ala Ser Glu Leu Ala Glu Lys Leu Gln Asn Thr
 275 280 285
 Ile Val Phe Tyr Gly Asp Ala Ser Asp Gln Glu Leu Leu Ala Glu Glu
 290 295 300
 His Ile Asp Gln Val Asp Leu Phe Ile Ala Val Thr Asn Asp Asp Glu
 305 310 315 320
 Ala Asn Ile Met Ser Ala Met Leu Ala Lys Arg Met Gly Ala Lys Lys
 325 330 335
 Val Met Val Leu Ile Gln Arg Lys Ala Tyr Val Asp Leu Val Gln Gly
 340 345 350
 Ser Val Ile Asp Ile Ala Ile Ser Pro Gln Gln Ala Thr Ile Ser Ala
 355 360 365
 Leu Leu Ser His Val Arg Lys Ala Asp Ile Val Gly Val Ser Ser Leu
 370 375 380
 Arg Arg Gly Val Ala Glu Ala Ile Glu Ala Val Ala His Gly Asp Glu
 385 390 395 400
 Thr Thr Ser Arg Val Val Gly Arg Ala Ile Asp Glu Ile Lys Leu Pro
 405 410 415
 Pro Gly Thr Ile Ile Gly Ala Val Val Arg Gly Asn Asp Val Met Ile
 420 425 430
 Ala Asn Asp Asn Leu Arg Ile Glu Gln Gly Asp His Val Ile Met Phe
 435 440 445
 Leu Thr Asp Lys Lys Phe Ile Thr Asp Val Glu Arg Leu Phe Gln Pro
 450 455 460
 Ser Pro Phe Phe Leu
 465 470

<210> 6781

<211> 176

<212> PRT

<213> Enterobacter cloacae

<400> 6781

Thr Arg Leu Trp Lys Phe Met Ala Val Leu Gln Val Leu His Ile Pro
 1 5 10 15
 Asp Glu Arg Leu Arg Ile Val Ala Glu Pro Val Lys Glu Val Asn Ala
 20 25 30
 Glu Ile Gln Arg Ile Val Asp Asp Met Phe Asp Thr Met Tyr Ala Glu
 35 40 45
 Glu Gly Ile Gly Leu Ala Ala Thr Gln Val Asp Ile His Lys Arg Ile
 50 55 60
 Ile Val Ile Asp Val Ser Glu Asn Arg Asp Glu Arg Leu Val Leu Ile
 65 70 75 80
 Asn Pro Glu Leu Leu Glu Lys Ser Gly Glu Thr Gly Ile Glu Glu Gly
 85 90 95
 Cys Leu Ser Ile Pro Glu Gln Arg Ala Leu Val Pro Arg Ala Glu Lys
 100 105 110
 Val Lys Ile Arg Ala Leu Asp Arg Asp Gly Asn Pro Phe Glu Leu Glu
 115 120 125
 Ala Asp Asp Leu Leu Ala Ile Cys Ile Gln His Glu Met Asp His Leu
 130 135 140

Val Gly Lys Leu Phe Ile Asp Tyr Leu Ser Pro Leu Lys Gln Gln Arg
 145 150 155 160
 Ile Arg Gln Lys Val Glu Lys Leu Asp Arg Leu Arg Ser Arg Ala
 165 170 175

<210> 6782

<211> 324

<212> PRT

<213> Enterobacter cloacae

<400> 6782

Arg Pro Pro Asp Thr Arg Asn Asn Val Ser Thr Ser Leu Arg Ile Ile
 1 5 10 15
 Phe Ala Gly Thr Pro Asp Phe Ala Ala Arg His Leu Asp Ala Leu Leu
 20 25 30
 Ser Ser Gly His Gln Ile Val Gly Val Phe Thr Gln Pro Asp Arg Pro
 35 40 45
 Ala Gly Arg Gly Lys Lys Leu Met Pro Gly Pro Val Lys Val Leu Ala
 50 55 60
 Glu Thr His Gly Leu Pro Val Phe Gln Pro Ala Ser Leu Arg Pro Glu
 65 70 75 80
 Glu Asn Gln Gln Leu Val Ala Asp Leu Asn Ala Asp Val Met Val Val
 85 90 95
 Val Ala Tyr Gly Leu Ile Leu Pro Lys Ala Val Leu Asp Met Pro Arg
 100 105 110
 Leu Gly Cys Val Asn Val His Gly Ser Leu Leu Pro Arg Trp Arg Gly
 115 120 125
 Ala Ala Pro Ile Gln Arg Ala Leu Trp Ala Gly Asp Ala Glu Thr Gly
 130 135 140
 Val Thr Ile Met Lys Met Asp Val Gly Leu Asp Thr Gly Asp Met Leu
 145 150 155 160
 Tyr Lys Leu Ala Cys Pro Ile Thr Ala Glu Asp Thr Ser Ala Thr Leu
 165 170 175
 Tyr Asp Lys Leu Ala Asp Leu Gly Pro Gln Gly Leu Ile Glu Thr Leu
 180 185 190
 Gln Gln Leu Ala Asp Asn Thr Ala Thr Pro Glu Val Gln Asp Glu Ala
 195 200 205
 Gln Val Thr Tyr Ala Glu Lys Leu Ser Lys Glu Glu Ala Arg Ile Asp
 210 215 220
 Trp Ser Leu Ser Ala Ala Gln Leu Glu Arg Cys Ile Arg Ala Phe Asn
 225 230 235 240
 Pro Trp Pro Met Ser Trp Leu Met Ile Asp Glu Gln Pro Val Lys Val
 245 250 255
 Trp Lys Ala Ser Val Ile Asn Gly Asn Thr Ser Ala Glu Pro Gly Thr
 260 265 270
 Ile Ile Asp Ala Ser Lys Asn Gly Ile Gln Val Ala Thr Gly Glu Gly
 275 280 285
 Ile Leu Asn Leu Glu Ser Leu Gln Pro Ala Gly Lys Lys Ala Met Ser
 290 295 300
 Ala Gln Asp Leu Leu Asn Ser Arg Arg Glu Trp Phe Ile Pro Gly Asn
 305 310 315 320
 Arg Leu Ala

<210> 6783

<211> 153

<212> PRT

<213> Enterobacter cloacae

<400> 6783

Ser Phe Val Lys Leu Ile Gly Val Ser Trp His Lys Glu Asn Ile Met

```

1           5           10           15
Ser Phe Ile Lys Glu Phe Arg Glu Phe Ala Met Arg Gly Asn Val Val
20           25           30
Asp Leu Ala Val Gly Val Ile Ile Gly Ala Ala Phe Gly Lys Ile Val
35           40           45
Ser Ser Leu Val Ala Asp Ile Ile Met Pro Pro Leu Gly Leu Leu Ile
50           55           60
Gly Gly Ile Asp Phe Lys Gln Phe Ala Phe Thr Leu Arg Glu Ala Gln
65           70           75           80
Gly Asp Ile Pro Ala Val Val Met His Tyr Gly Val Phe Ile Gln Asn
85           90           95
Val Phe Asp Phe Val Ile Val Ala Phe Ala Ile Phe Met Ala Ile Lys
100          105          110
Leu Ile Asn Arg Leu Asn Arg Lys Lys Glu Glu Pro Ala Ala Ala Pro
115          120          125
Pro Ala Pro Thr Lys Glu Glu Val Leu Leu Thr Glu Ile Arg Asp Leu
130          135          140
Leu Lys Glu Gln Asn Asn Arg Val
145          150

```

<210> 6784

<211> 136

<212> PRT

<213> Enterobacter cloacae

<400> 6784

```

Gln Glu Val Ile Met Ala Gln Ile Pro Ala Gly Ala Asp Cys Pro Gly
1           5           10           15
Gln Leu Ser Arg Lys Gln Thr Gly Asp Ala Trp Glu Leu Lys Ala Arg
20           25           30
Arg Trp Leu Glu Gly Lys Gly Leu Arg Phe Val Ala Ala Asn Val Arg
35           40           45
Gly Arg Gly Gly Glu Ile Asp Leu Ile Met Lys Asp Gly Gln Thr Ile
50           55           60
Val Phe Val Glu Val Arg Tyr Arg Gln Ser Ser Arg Phe Gly Gly Ala
65           70           75           80
Ala Ala Ser Val Thr Leu Ala Lys Gln Gln Lys Leu Leu Gln Thr Ala
85           90           95
His Leu Trp Leu Ala Arg His Asn Gly Ser Phe Asp Thr Val Asp Cys
100          105          110
Arg Phe Asp Val Val Ala Phe Thr Gly Asn Ala Ile Asp Trp Leu Lys
115          120          125
Asn Ala Phe Gly Glu Asp Ala
130          135

```

<210> 6785

<211> 200

<212> PRT

<213> Enterobacter cloacae

<400> 6785

```

Arg Asp Thr Val Leu Glu Arg Ile Lys Val Cys Phe Thr Glu Ser Ile
1           5           10           15
Gln Thr Gln Ile Ala Ala Ala Glu Ala Leu Pro Asp Ala Ile Ser Arg
20           25           30
Ala Ala Met Thr Leu Val Gln Ser Leu Leu Asn Gly Asn Lys Ile Leu
35           40           45
Cys Cys Gly Asn Gly Thr Ser Ala Ala Asn Ala Gln His Phe Ala Ala
50           55           60
Ser Met Ile Asn Arg Phe Glu Thr Glu Arg Pro Ser Leu Pro Ala Ile
65           70           75           80

```

Ala Leu Asn Thr Asp Asn Val Val Leu Thr Ala Ile Ala Asn Asp Arg
 85 90 95
 Leu His Asp Glu Ile Tyr Ala Lys Gln Val Arg Ala Leu Gly His Ala
 100 105 110
 Gly Asp Val Leu Leu Ala Ile Ser Thr Arg Gly Asn Ser Arg Asp Ile
 115 120 125
 Val Lys Ala Val Glu Ala Ala Val Thr Arg Asp Met Thr Ile Val Ala
 130 135 140
 Leu Thr Gly Tyr Asp Gly Gly Glu Leu Ala Gly Leu Leu Gly Pro Gln
 145 150 155 160
 Asp Val Glu Ile Arg Ile Pro Ser His Arg Ser Ala Arg Ile Gln Glu
 165 170 175
 Met His Met Leu Thr Val Asn Cys Leu Cys Asp Leu Ile Asp Asn Thr
 180 185 190
 Leu Phe Pro His Gln Asp Asp
 195 200

<210> 6786

<211> 195

<212> PRT

<213> Enterobacter cloacae

<400> 6786

Gly Val Leu Met Lys Val Leu Ser Ala Leu Ala Val Val Met Ser Ala
 1 5 10 15
 Leu Leu Leu Gln Gly Cys Ile Ala Ala Val Val Gly Thr Ala Ala
 20 25 30
 Val Gly Thr Lys Ala Ala Thr Asp Pro Arg Thr Val Gly Thr Gln Val
 35 40 45
 Asp Asp Gly Thr Leu Glu Leu Arg Val Asn Ser Ala Leu Ser Lys Asp
 50 55 60
 Glu Gln Ile Lys Lys Glu Ala Arg Ile Asn Val Thr Ala Tyr Gln Gly
 65 70 75 80
 Lys Val Leu Leu Ala Gly Gln Ala Pro Asn Pro Glu Leu Ala Ser Arg
 85 90 95
 Ala Lys Gln Ile Ala Met Gly Val Glu Gly Thr Ala Glu Val Tyr Asn
 100 105 110
 Glu Ile Arg Gln Gly Gln Pro Ile Gly Leu Gly Thr Ala Ser Ser Asp
 115 120 125
 Thr Trp Ile Thr Thr Lys Val Arg Ser Gln Leu Leu Gly Thr Asp Gln
 130 135 140
 Val Lys Ser Ser Asn Val Lys Val Thr Thr Glu Asn Gly Glu Val Phe
 145 150 155 160
 Leu Leu Gly Leu Val Thr Glu Arg Glu Gly Lys Ala Ala Ala Asp Ile
 165 170 175
 Ala Ser Arg Val Ser Gly Val Lys His Val Thr Thr Ala Phe Thr Tyr
 180 185 190
 Ile Lys
 195

<210> 6787

<211> 391

<212> PRT

<213> Enterobacter cloacae

<400> 6787

Gly Gly Gly Ile Pro Asn Arg Gly Arg Arg Ala Met Phe Arg Arg Gln
 1 5 10 15
 Cys Gly Arg Gly Ser Ser Pro Asn Phe Val His Glu Arg Phe Gln Asp
 20 25 30
 Thr Val Leu His Asp Ala Phe Ala Phe Phe Ser Gly Ile Arg Ile Val

```

      35      40      45
Pro Ile Val Thr Ala Leu Thr Leu Ser Leu Val Gly Leu Phe Ile Pro
  50      55      60
Leu Leu Trp Glu Tyr Val Ala Met Gly Ile Ala Gly Ile Gly His Ile
  65      70      75      80
Ile Gln Ser Thr Ser Val Phe Gly Pro Phe Leu Tyr Gly Val Gly Val
      85      90      95
Leu Leu Leu Lys Pro Phe Gly Leu His His Ile Leu Leu Ala Met Val
      100      105      110
Arg Phe Thr Pro Ala Gly Gly Ile Glu Met Val Asn Gly Gln Glu Val
      115      120      125
Ala Gly Ala Leu Asn Ile Phe Tyr Ala Glu Leu Lys Ala Gly Leu Pro
      130      135      140
Phe Ser Pro His Val Thr Ala Phe Leu Ser Gln Gly Phe Met Pro Thr
  145      150      155      160
Phe Ile Phe Gly Leu Pro Ala Val Ala Tyr Ala Ile Tyr Arg Thr Ala
      165      170      175
Arg Pro Glu Asn Arg Pro Val Ile Lys Gly Leu Leu Leu Ser Gly Val
      180      185      190
Leu Val Ser Val Val Thr Gly Ile Ser Glu Pro Ile Glu Phe Leu Phe
      195      200      205
Leu Phe Ile Ala Pro Val Leu Tyr Ala Phe His Ile Val Met Ser Gly
      210      215      220
Leu Ala Leu Met Val Met Ala Leu Leu Gly Val Thr Ile Gly Asn Thr
  225      230      235      240
Asp Gly Gly Ile Leu Asp Leu Leu Ile Phe Gly Val Met Gln Gly Met
      245      250      255
Ser Thr Lys Trp Tyr Leu Leu Phe Pro Val Gly Met Ala Trp Phe Ala
      260      265      270
Ile Tyr Phe Phe Val Phe Arg Trp Tyr Ile Leu Arg His Asp Ile Lys
      275      280      285
Thr Pro Gly Arg Glu Val Asp Ala Gln Gly Ala Leu Gln Ala Val Glu
      290      295      300
Ala Asn Thr Arg Ala Arg Gly Lys Ser Lys Tyr Asp His Gly Leu Ile
  305      310      315      320
Leu Arg Ala Leu Gly Gly Lys Glu Asn Ile Glu Ser Leu Asp Asn Cys
      325      330      335
Ile Thr Arg Leu Arg Leu Val Val Lys Asp Met Gly Leu Ile Asp Gln
      340      345      350
Gln Ala Leu Lys Ala Ala Gly Ala Leu Ser Val Val Val Leu Asp Ala
      355      360      365
His Ser Val Gln Val Ile Ile Gly Pro Gln Val Gln Ser Val Lys Ser
      370      375      380
Gly Ile Glu Ala Leu Ile
  385      390

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<210> 6788

<211> 395

<212> PRT

<213> Enterobacter cloacae

<400> 6788

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Gln Gly Asp Val Val Phe Asp Phe Asp Arg Ile Ile Glu Arg Lys Ser
  1      5      10      15
Asp Lys Cys Arg Lys Trp Asp His Ala Phe Val Cys Ser Arg Phe Gly
      20      25      30
Asp Val Pro Glu Gly Phe Ile Pro Leu Trp Ile Ala Asp Met Asp Phe
      35      40      45
Thr Ser Pro Pro Ala Val Ile Glu Gly Phe Gln Arg Ile Val Glu His
      50      55      60
Gly Thr Phe Gly Tyr Thr Trp Cys Phe Asp Glu Phe Tyr Asp Ala Val

```

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65          70          75          80
Ile Ala Phe Gln Arg Thr Arg His Gln Val Glu Val His Lys Ser Trp
      85          90          95
Ile Thr Leu Thr Tyr Gly Thr Val Ser Thr Leu His Tyr Thr Val Gln
      100        105        110
Ala Phe Cys Lys Pro Gly Asp Cys Val Met Met Asn Thr Pro Val Tyr
      115        120        125
Asp Pro Phe Ala Met Ala Thr Gln Arg Gln Gly Val Arg Val Leu Ala
      130        135        140
Asn Pro Leu Ser Val Lys Glu Asn Arg Tyr His Leu Asp Phe Asn Leu
145      150      155      160
Ile Glu Val Gln Leu Lys Thr His Arg Pro Lys Leu Trp Phe Phe Cys
      165        170        175
Ser Pro His Asn Pro Ser Gly Arg Ile Trp Arg Ala Asp Glu Ile Arg
      180        185        190
Gln Val Ser Asp Leu Cys Lys Arg Tyr Gly Thr Ile Leu Val Val Asp
      195        200        205
Glu Val His Ala Glu His Ile Leu Asp Gly Thr Phe Val Ser Cys Leu
210      215      220
Thr Ser Gly Cys Ala Ala Gln Asp Asn Leu Ile Val Leu Thr Ser Pro
225      230      235      240
Asn Lys Ala Phe Asn Leu Gly Gly Leu Lys Thr Ser Tyr Ser Ile Ile
      245        250        255
Pro Asp Asp Ser Leu Arg Gln Arg Phe Arg Gln Gln Leu Glu Lys Asn
      260        265        270
Ser Ile Thr Ser Pro Asn Ile Phe Gly Val Trp Gly Ile Ile Leu Ala
      275        280        285
Tyr Gln Gln Gly Leu Pro Trp Leu Asp Ala Leu Asn Gly Tyr Leu Arg
290      295      300
Gly Asn Ala Arg Tyr Leu Ala Asp Ala Ile Gln Thr His Phe Pro Ala
305      310      315      320
Trp Lys Met Met Asn Pro Glu Ser Ser Tyr Leu Ala Trp Ile Asp Val
      325        330        335
Ser Ala Asp Asp Arg Ser Ala Thr Ala Leu Thr Gln His Phe Ala Lys
      340        345        350
Gln Ala Gly Val Val Ile Glu Asp Gly Ser His Tyr Val Gln Asn Gly
      355        360        365
Glu Asn Tyr Leu Arg Ile Asn Phe Gly Thr Gln Arg Tyr Trp Leu Glu
370      375      380
Gln Ser Ile Asn Arg Met Leu Lys His Tyr
385      390      395

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<210> 6789

<211> 723

<212> PRT

<213> Enterobacter cloacae

<400> 6789

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Ala Leu Arg Lys Lys Ile Thr Gly Tyr Ser Met Val Pro Leu Thr Phe
1          5          10          15
Leu Arg Lys Lys Ala Ala His Ser Val Pro Leu Leu Leu Ala Ala Leu
      20          25          30
Ile Phe Thr Gly Cys Gly Thr Gln Ala Pro Asp Gln Ser Thr Ala His
      35          40          45
Met Gln Gly Ser Ala Gln Ala Asp Ser Gly Phe Tyr Leu Gln Gln Met
50      55      60
Ser Gln Ser Thr Asn Asp Thr Arg Ile Asn Trp Gln Leu Leu Ala Ile
65      70      75      80
Arg Ala Leu Leu Lys Glu Gly Lys Thr Gln Gln Ala Ala Glu Leu Phe
      85      90      95
Ser Gln Leu Pro Gln Asp Leu Asn Asp Thr Gln Arg His Glu Gln Thr

```

			100					105					110				
Leu	Leu	Ser	Ala	Glu	Leu	Lys	Val	Ala	Gln	Lys	Asp	Tyr	Asp	Gly	Ala		
		115					120					125					
Lys	Lys	Ile	Leu	Gly	Thr	Ile	Asp	Leu	Ser	Thr	Leu	Asp	Lys	Asn	Gln		
		130				135					140						
Gln	Thr	Arg	Phe	Trp	Gln	Ala	Gly	Ile	Thr	Ala	Glu	Gln	Gly	Arg	Thr		
145				150					155					160			
Ser	Leu	Thr	Leu	Leu	Arg	Ala	Leu	Ile	Ala	Gln	Glu	Pro	Leu	Leu	Ala		
				165					170					175			
Gly	Ala	Asp	Lys	Gln	Lys	Asn	Ile	Asp	Ala	Thr	Trp	Gln	Ala	Leu	Ala		
			180					185					190				
Ser	Met	Thr	Gln	Asp	Gln	Ala	Lys	Ala	Leu	Val	Ile	Asn	Ala	Asp	Glu		
		195					200					205					
Asn	Val	Leu	Gln	Gly	Trp	Leu	Asp	Leu	Gln	Gln	Met	Trp	Phe	Asn	Asn		
		210				215					220						
Arg	Ser	Asp	Pro	Asn	Met	Leu	Lys	Ala	Gly	Ile	Thr	Asp	Trp	Gln	Lys		
225				230					235					240			
Arg	Tyr	Pro	Gln	Asn	Pro	Gly	Ala	Lys	Met	Leu	Pro	Thr	Gln	Leu	Val		
				245					250					255			
Asn	Val	Gln	Asn	Phe	Lys	Pro	Ala	Ser	Thr	Ser	Lys	Ile	Ala	Leu	Leu		
			260					265					270				
Leu	Pro	Leu	Asn	Gly	Gln	Ala	Ala	Val	Phe	Gly	Arg	Ala	Ile	Gln	Gln		
		275					280					285					
Gly	Phe	Glu	Ala	Ala	Lys	Asn	Gly	Thr	Thr	Ala	Val	Ser	Gly	Ser	Ala		
		290				295					300						
Val	Pro	Thr	Gln	Ala	Ala	Gln	Ala	Ala	Asn	Val	Asn	Asp	Val	Val	Ser		
305				310						315					320		
Pro	Ser	Ala	Ala	Glu	Thr	Ser	Asp	Leu	Thr	Thr	Ala	Gln	Thr	Pro	Ala		
				325					330					335			
Gln	Gly	Thr	Met	Gln	Asn	Pro	Val	Thr	Ala	Pro	Thr	Thr	Gln	Pro	Ala		
			340					345					350				
Pro	Pro	Ala	Pro	Ala	Ala	Thr	Gln	Ala	Pro	Ala	Glu	Thr	Pro	Ala	Pro		
		355					360					365					
Ala	Thr	Ala	Glu	Gln	Pro	Gln	Pro	Gln	Thr	Glu	Gln	Pro	Glu	Gln	Gln		
		370				375					380						
Pro	Ala	Thr	Gln	Pro	Gln	Ala	Val	Ala	Thr	Thr	Ser	Ala	Asn	Pro	Gly		
385				390						395					400		
Ala	Glu	Leu	Lys	Ile	Tyr	Asp	Thr	Ser	Ala	Gln	Pro	Leu	Asp	Gln	Val		
			405						410				415				
Leu	Ala	Gln	Val	Gln	Gln	Asp	Gly	Ala	Ser	Ile	Val	Val	Gly	Pro	Leu		
			420				425					430					
Leu	Lys	Asn	Asn	Val	Glu	Ala	Leu	Met	Lys	Ser	Asn	Thr	Thr	Leu	Asn		
		435					440					445					
Val	Leu	Ala	Leu	Asn	Gln	Pro	Glu	Gln	Val	Gln	Asn	Arg	Ala	Asn	Ile		
		450</															

Phe Ile Lys Pro Met Ile Ala Met Arg Asn Gly Ser Gln Ser Gly Ala
 595 600 605
 Thr Leu Tyr Ala Ser Ser Arg Ser Ala Gln Gly Thr Ala Gly Pro Asp
 610 615 620
 Phe Arg Leu Glu Met Glu Gly Leu Gln Tyr Ser Glu Ile Pro Met Leu
 625 630 635 640
 Ala Gly Ser Asn Pro Gln Leu Met Gln Gln Ala Leu Gly Ala Val Arg
 645 650 655
 Asn Asp Tyr Ser Leu Ala Arg Leu Tyr Ala Met Gly Val Asp Ala Trp
 660 665 670
 Ala Leu Ala Asn His Phe Thr Gln Met Arg Gln Val Pro Gly Phe Glu
 675 680 685
 Leu Asn Gly Asn Thr Gly Asp Leu Thr Ala Asp Gln Asp Cys Val Ile
 690 695 700
 Asn Arg Lys Leu Ser Trp Leu Lys Tyr Gln Gln Gly Gln Ile Val Pro
 705 710 715 720
 Ala Ser

<210> 6790

<211> 295

<212> PRT

<213> Enterobacter cloacae

<400> 6790

Ile Gly Asn Thr Asp Glu Thr Met Lys Gln His Glu Thr Ala Asp Asn
 1 5 10 15
 Ser Gln Gly Gln Leu Tyr Ile Val Pro Thr Pro Ile Gly Asn Leu Ser
 20 25 30
 Asp Ile Thr Gln Arg Ala Leu Thr Val Leu Gln Ala Val Asp Leu Ile
 35 40 45
 Ala Ala Glu Asp Thr Arg His Thr Gly Leu Leu Leu Gln His Phe Ala
 50 55 60
 Ile Asn Ala Arg Leu Phe Ala Leu His Asp His Asn Glu Gln Gln Lys
 65 70 75 80
 Ala Glu Thr Leu Val Ala Lys Leu Lys Glu Gly Gln Asn Ile Ala Leu
 85 90 95
 Val Ser Asp Ala Gly Thr Pro Leu Ile Asn Asp Pro Gly Tyr His Leu
 100 105 110
 Val Arg Thr Cys Arg Glu Ala Gly Ile Arg Val Val Pro Leu Pro Gly
 115 120 125
 Pro Cys Ala Ala Ile Ala Ala Leu Ser Ala Ala Gly Leu Pro Ser Asp
 130 135 140
 Arg Phe Cys Tyr Glu Gly Phe Leu Pro Ala Lys Ser Lys Gly Arg Arg
 145 150 155 160
 Asp Val Leu Glu Asp Leu Glu Ala Glu Pro Arg Thr Leu Ile Phe Tyr
 165 170 175
 Glu Ser Thr His Arg Leu Leu Glu Ser Leu Glu Asp Met Val Thr Val
 180 185 190
 Trp Gly Glu Gly Arg Tyr Val Val Leu Ala Arg Glu Leu Thr Lys Thr
 195 200 205
 Trp Glu Thr Ile His Gly Ala Pro Val Gly Glu Leu Leu Ala Trp Val
 210 215 220
 Lys Glu Asp Glu Asn Arg Arg Lys Gly Glu Met Val Leu Ile Val Glu
 225 230 235 240
 Gly His Lys Ala Gln Glu Asp Ala Leu Pro Ala Asp Ala Leu Arg Thr
 245 250 255
 Leu Ala Leu Leu Gln Ala Glu Leu Pro Leu Lys Lys Ala Ala Ala Leu
 260 265 270
 Ala Ala Glu Ile His Gly Val Lys Lys Asn Ala Leu Tyr Lys Tyr Ala
 275 280 285

Leu Glu Gln Gln Gly Glu
290 295

<210> 6791

<211> 113

<212> PRT

<213> Enterobacter cloacae

<400> 6791

Lys	Tyr	Ile	Leu	Ala	Val	Leu	Val	Leu	Gly	Ala	Ala	Arg	Val	Trp	Leu
1			5					10					15		
Phe	Pro	His	Ala	Asp	Gly	Ala	Ile	Asp	Asn	Thr	Leu	Met	Trp	Val	Ile
		20					25				30				
Ala	Met	Ala	Val	Ala	Gly	Cys	Leu	Phe	Val	Ile	Pro	Thr	Ala	Ala	Glu
	35					40					45				
Ile	Pro	Ile	Ile	Gln	Thr	Met	Met	Met	Ala	Gly	Met	Gly	Thr	Ala	Pro
	50				55			60							
Ala	Leu	Ala	Leu	Leu	Ile	Thr	Leu	Pro	Ala	Val	Ser	Leu	Pro	Ser	Leu
65				70				75							80
Ile	Met	Leu	Arg	Lys	Ser	Phe	Pro	Ala	Lys	Ala	Leu	Trp	Leu	Thr	Ala
			85					90					95		
Gly	Leu	Val	Ala	Leu	Ser	Gly	Val	Ile	Val	Gly	Ser	Met	Ala	Leu	Val
			100				105						110		

<210> 6792

<211> 97

<212> PRT

<213> Enterobacter cloacae

<400> 6792

Gly	Glu	Ala	Val	Leu	His	Pro	Ala	Val	Lys	Thr	Trp	Val	Val	Glu	Gly
1			5					10					15		
Ser	Lys	Lys	Arg	Leu	Gln	Ala	Phe	Glu	Gly	Val	Val	Ile	Ala	Ile	Arg
		20					25					30			
Asn	Arg	Gly	Leu	His	Ser	Ala	Phe	Thr	Val	Arg	Lys	Ile	Ser	Asn	Gly
	35					40					45				
Glu	Gly	Val	Glu	Arg	Val	Phe	Gln	Thr	His	Ser	Pro	Val	Val	Asp	Ser
	50					55				60					
Ile	Ala	Val	Lys	Arg	Arg	Gly	Ala	Val	Arg	Lys	Ala	Lys	Leu	Tyr	Tyr
65				70				75							80
Leu	Arg	Glu	Arg	Thr	Gly	Lys	Ser	Ala	Arg	Ile	Lys	Glu	Arg	Leu	Asn
			85					90						95	

<210> 6793

<211> 332

<212> PRT

<213> Enterobacter cloacae

<400> 6793

Thr	Lys	Lys	Gln	Phe	Met	Ala	Gln	Arg	Val	Glu	Leu	Thr	Ala	Thr	Val
1			5					10					15		
Ser	Glu	Asn	Gln	Leu	Gly	Gln	Arg	Leu	Asp	Gln	Ala	Leu	Ala	Glu	Leu
		20					25					30			
Phe	Pro	Asp	Tyr	Ser	Arg	Ser	Arg	Ile	Lys	Glu	Trp	Ile	Leu	Asp	Gln
	35					40					45				
Arg	Val	Leu	Val	Asn	Gly	Lys	Ile	Trp	Asp	Lys	Pro	Lys	Glu	Lys	Val
	50					55					60				

```

Phe Gly Gly Glu Ala Val Ala Ile Asn Ala Glu Ile Glu Glu Glu Ile
65          70          75          80
Arg Phe Glu Pro Gln Asp Ile Pro Leu Asp Ile Val Tyr Glu Asp Asp
      85          90          95
Asp Ile Leu Val Ile Asn Lys Pro Arg Asp Phe Val Val His Pro Gly
      100        105        110
Ala Gly Asn Pro Asp Gly Thr Val Leu Asn Ala Leu Leu His Tyr Tyr
      115        120        125
Pro Pro Ile Ala Asp Val Pro Arg Ala Gly Ile Val His Arg Leu Asp
      130        135        140
Lys Asp Thr Thr Gly Leu Met Val Val Ala Lys Thr Ile Pro Ala Gln
145          150        155          160
Thr Arg Leu Val Glu Ser Leu Gln Leu Arg Glu Ile Thr Arg Glu Tyr
      165        170        175
Glu Ala Val Ala Ile Gly His Met Thr Ser Gly Gly Thr Val Glu Glu
      180        185        190
Pro Ile Ser Arg His Pro Thr Lys Arg Thr His Met Ser Val His Pro
      195        200        205
Met Gly Lys Pro Ala Val Thr His Tyr Arg Ile Met Glu His Phe Arg
      210        215        220
Ile His Thr Arg Leu Arg Leu Arg Leu Glu Thr Gly Arg Thr His Gln
225          230        235          240
Ile Arg Val His Met Ala His Ile Thr His Pro Leu Val Gly Asp Pro
      245        250        255
Val Tyr Gly Gly Arg Pro Arg Pro Pro Lys Gly Ala Ser Asp Glu Phe
      260        265        270
Ile Ser Val Leu Arg Lys Phe Asp Arg Gln Ala Leu His Ala Thr Met
      275        280        285
Leu Arg Leu Tyr His Pro Ile Thr Gly Ile Gln Met Glu Trp His Ala
      290        295        300
Pro Ile Pro Gln Asp Met Val Glu Leu Ile Asp Ala Met Arg Ala Asp
305          310        315          320
Phe Glu Glu His Lys Asp His Val Asp Trp Leu
      325        330

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<210> 6794

<211> 378

<212> PRT

<213> Enterobacter cloacae

<400> 6794

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Tyr Arg Cys Val Thr Ser Ser Arg Lys Thr Thr Ile Ala Asn Glu Phe
1          5          10          15
Asp Arg Ile Ala Ile Met Gln Lys Asp Ala Leu Asn Asn Val His Ile
      20          25          30
Thr Asp Glu Gln Val Leu Ile Thr Pro Asp Gln Leu Lys Ala Glu Phe
      35          40          45
Pro Leu Ser Val Ala Gln Glu Ala Gln Ile Glu His Ser Arg Gln Thr
      50          55          60
Ile Ser Asp Ile Ile Ala Gly Arg Asp Pro Arg Leu Leu Val Val Cys
65          70          75          80
Gly Pro Cys Ser Ile His Asp Pro Glu Thr Ala Ile Glu Tyr Ala Arg
      85          90          95
Arg Phe Lys Ala Leu Ala Glu Glu Val Ser Asp Ser Leu Tyr Leu Val
      100        105        110
Met Arg Val Tyr Phe Glu Lys Pro Arg Thr Thr Val Gly Trp Lys Gly
      115        120        125
Leu Ile Asn Asp Pro His Met Asp Gly Ser Phe Asp Val Glu Ala Gly
      130        135        140
Leu Lys Ile Ala Arg Arg Leu Leu Val Glu Leu Val Ser Met Gly Leu
145          150        155          160

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Pro Leu Ala Thr Glu Ala Leu Asp Pro Asn Ser Pro Gln Tyr Leu Gly
 165 170 175
 Asp Leu Phe Ser Trp Ser Ala Ile Gly Ala Arg Thr Thr Glu Ser Gln
 180 185 190
 Thr His Arg Glu Met Ala Ser Gly Leu Ser Met Pro Val Gly Phe Lys
 195 200 205
 Asn Gly Thr Asp Gly Ser Leu Ala Thr Ala Ile Asn Ala Met Arg Ala
 210 215 220
 Ala Ala Met Pro His Arg Phe Val Gly Ile Asn Gln Ala Gly Gln Val
 225 230 235 240
 Cys Leu Leu Gln Thr Gln Gly Asn Pro Asp Gly His Val Ile Leu Arg
 245 250 255
 Gly Gly Lys Ala Pro Asn Tyr Ser Pro Ala Asp Val Ala Gln Cys Glu
 260 265 270
 Lys Glu Met Glu Gln Ala Gly Leu Arg Pro Ala Leu Met Val Asp Cys
 275 280 285
 Ser His Gly Asn Ser Asn Lys Asp Tyr Arg Arg Gln Pro Ala Val Ala
 290 295 300
 Glu Ser Val Ile Ala Gln Ile Lys Asp Gly Asn Arg Ser Ile Ile Gly
 305 310 315 320
 Leu Met Ile Glu Ser Tyr Ile His Glu Gly Asn Gln Ser Ser Glu Gln
 325 330 335
 Pro Arg Ile Ala Met Lys Pro Gly Val Ser Val Thr Asp Ala Cys Ile
 340 345 350
 Ser Trp Glu Thr Thr Asp Ala Leu Leu Arg Glu Ile His Lys Asp Leu
 355 360 365
 Asn Gly Gln Leu Ala Thr Arg Leu Ala
 370 375

<210> 6795

<211> 129

<212> PRT

<213> Enterobacter cloacae

<400> 6795

Pro Ile Thr Ala Ser Trp Asn Ile Ser Val Phe Ile Pro Ala Cys Val
 1 5 10 15
 Cys Ala Trp Lys Pro Gly Val Leu Thr Arg Ser Ala Cys Thr Trp Arg
 20 25 30
 Ile Leu Pro Ile Arg Trp Trp Val Thr Arg Phe Thr Ala Val Val Arg
 35 40 45
 Val His Gln Arg Ala His Arg Met Asn Ser Ser Pro Cys Cys Val Asn
 50 55 60
 Ser Ile Ala Arg Arg Cys Met Arg Arg Cys Cys Val Phe Thr Thr Gln
 65 70 75 80
 Ser Pro Glu Phe Arg Trp Asn Gly Met Arg Arg Ser His Arg Ile Trp
 85 90 95
 Trp Asn Leu Ser Thr Arg Cys Ala Gln Ile Ser Lys Asn Ile Arg Ile
 100 105 110
 Thr Trp Thr Gly Tyr Asp Gln Thr Asp Cys Pro Gly Val Ala Thr Ala
 115 120 125

<210> 6796

<211> 518

<212> PRT

<213> Enterobacter cloacae

<400> 6796

Thr Lys Arg Arg Arg Tyr Ile Ala Ile Leu Arg Gly Leu Lys Glu Arg

1				5					10				15
Tyr	Glu	Leu	His	His	Val	Gln	Ile	Thr	Asp	Pro	Ala	Ile	Val
			20				25					30	
Ala	Ala	Thr	Leu	Ser	His	Arg	Tyr	Ile	Ala	Asp	Arg	Gln	Leu
		35					40					45	
Lys	Ala	Ile	Asp	Leu	Ile	Asp	Glu	Ala	Ala	Ser	Ser	Ile	Arg
		50				55					60		
Ile	Asp	Ser	Lys	Pro	Glu	Glu	Leu	Asp	Arg	Leu	Asp	Arg	Arg
65					70				75				80
Gln	Leu	Lys	Leu	Glu	Gln	Gln	Ala	Leu	Asn	Lys	Glu	Ser	Asp
			85						90				95
Ser	Lys	Lys	Arg	Leu	Asp	Met	Leu	Asn	Glu	Glu	Leu	Asp	Glu
			100					105				110	
Arg	Gln	Tyr	Ser	Glu	Leu	Glu	Glu	Glu	Trp	Lys	Ala	Glu	Lys
		115					120					125	
Leu	Ser	Gly	Thr	Gln	Thr	Ile	Lys	Ala	Glu	Leu	Glu	Gln	Ala
		130				135						140	
Ala	Ile	Glu	Gln	Ala	Arg	Arg	Val	Gly	Asp	Leu	Ala	Arg	Met
145					150				155				160
Leu	Gln	Tyr	Gly	Lys	Ile	Pro	Glu	Leu	Glu	Lys	Gln	Leu	Glu
			165						170				175
Thr	Gln	Ser	Glu	Gly	Lys	Thr	Met	Arg	Leu	Leu	Arg	Asn	Lys
			180					185				190	
Asp	Ala	Glu	Ile	Ala	Glu	Val	Leu	Ala	Arg	Trp	Thr	Gly	Ile
		195					200					205	
Ala	Arg	Met	Met	Glu	Ser	Glu	Arg	Glu	Lys	Leu	Leu	Arg	Met
		210				215					220		
Asp	Leu	His	Gln	Arg	Val	Ile	Gly	Gln	Asn	Glu	Ala	Val	Glu
225					230					235			240
Ser	Asn	Ala	Ile	Arg	Arg	Ser	Arg	Ala	Gly	Leu	Ser	Asp	Pro
			245						250				255
Pro	Ile	Gly	Ser	Phe	Leu	Phe	Leu	Gly	Pro	Thr	Gly	Val	Gly
			260					265				270	
Glu	Leu	Cys	Lys	Ala	Leu	Ala	Asn	Phe	Met	Phe	Asp	Ser	Asp
		275					280				285		290
Met	Val	Arg	Ile	Asp	Met	Ser	Glu	Phe	Met	Glu	Lys	His	Ala
		290				295					300		
Arg	Leu	Val	Gly	Ala	Pro	Pro	Gly	Tyr	Val	Gly	Tyr	Glu	Glu
					310					315			320
Tyr	Leu	Thr	Glu	Ala	Val	Arg	Arg	Arg	Pro	Tyr	Ser	Val	Ile
			325						330				335
Asp	Glu	Val	Glu	Lys	Ala	His	Pro	Asp	Val	Phe	Asn	Ile	Leu
			340					345				350	
Val	Leu	Asp	Asp	Gly	Arg	Leu	Thr	Asp	Gly	Gln	Gly	Arg	Thr
		355					360				365		370
Phe	Arg	Asn	Thr	Val	Val	Ile	Met	Thr	Ser	Asn	Leu	Gly	Ser
		370				375					380		
Ile	Gln	Glu	Arg	Phe	Gly	Glu	Leu	Asp	Tyr	Ser	His	Met	Lys
385					390					395			400
Val	Leu	Gly	Val	Val	Ser	Gln	Asn	Phe	Arg	Pro	Glu	Phe	Ile
			405						410				415
Ile	Asp	Glu	Val	Val	Val	Phe	His	Pro	Leu	Gly	Glu	Lys	His
			420					425				430	
Ser	Ile	Ala	Gln	Ile	Gln	Leu	Gln	Arg	Leu	Tyr	Lys	Arg	Leu
		435					440					445	
Arg	Gly	Tyr	Glu	Ile	His	Ile	Ser	Asp	Asp	Ala	Leu	Lys	Leu
		450				455					460		
Glu	Asn	Gly	Tyr	Asp	Pro	Val	Tyr	Gly	Ala	Arg	Pro	Leu	Lys
465					470					475			480
Ile	Gln	Gln	Gln	Ile	Glu	Asn	Pro	Leu	Ala	Gln	Gln	Ile	Leu
				485				490					495

Glu Leu Val Pro Gly Lys Val Ile Arg Leu Glu Ala Asn Glu Asp Arg
 500 505 510
 Ile Val Ala Val Gln
 515

<210> 6797

<211> 533

<212> PRT

<213> Enterobacter cloacae

<400> 6797

Ser Met Arg Leu Leu Arg Ala Val Ser Ala Cys Thr Gly Arg Asp Ala
 1 5 10 15
 Gly Ala Tyr Arg Ser Ala Gln Arg Gly Val Ala Ala Ala Ala Arg Glu
 20 25 30
 Ala Ala Ser Ser Gly Gly Gln Pro Leu Ala Leu Phe Pro Leu Ala Leu
 35 40 45
 Pro Arg Tyr Pro Arg Ala Ala Ala Ser Val Cys Phe Leu Pro Leu Lys
 50 55 60
 Gln Asn His Ser Leu Phe Ala Leu Lys Arg Lys Ser Met Thr Thr Cys
 65 70 75 80
 Thr Pro Arg Ala Ala Trp Gly Asn Leu Leu Arg Arg Leu His Phe Tyr
 85 90 95
 Ile Gly Leu Phe Val Gly Pro Phe Ile Phe Phe Ala Ala Leu Thr Gly
 100 105 110
 Thr Leu Tyr Val Ala Thr Pro Gln Leu Glu Asn Ala Leu Tyr His Tyr
 115 120 125
 Ala Leu His Thr Asp Ala Val Gly Glu Ala Gln Pro Leu Ala Lys Gln
 130 135 140
 Ile Thr Val Ala Glu Lys Ala Val Gly Ser Ala Leu Arg Leu His Ala
 145 150 155 160
 Val Arg Pro Gly Leu Glu Glu Gly Glu Thr Thr Arg Val Met Phe Ala
 165 170 175
 Asp Pro Ala Leu Gly Pro Ser Glu His Arg Ala Ile Phe Ile Asp Pro
 180 185 190
 Ala Ser Leu Glu Val Arg Gly Asp Met Thr Val Tyr Gly Thr Ser Gly
 195 200 205
 Ile Leu Pro Leu Arg Gln Thr Ile Asp Tyr Leu His Thr Ser Leu Met
 210 215 220
 Leu Gly Asn Ile Gly Arg Leu Tyr Ser Glu Leu Ala Ala Ser Trp Met
 225 230 235 240
 Trp Val Ala Ala Leu Gly Gly Ile Ala Leu Trp Phe Tyr Thr Arg Pro
 245 250 255
 Lys Arg Arg Ile Asn Asn Arg Phe Gln Asn Arg Arg Arg Leu His Val
 260 265 270
 Ile Leu Gly Trp Thr Leu Leu Thr Gly Met Leu Leu Phe Ser Val Thr
 275 280 285
 Gly Leu Thr Trp Ser Gln Trp Ala Gly Gly Asn Val Asp Lys Leu Arg
 290 295 300
 Ala Glu Met Asn Trp Leu Thr Pro Gln Val Asn Thr Thr Leu Ser Gly
 305 310 315 320
 Ala Pro Glu Met Arg Asp Glu His Ala Glu His Arg Gly His His Gly
 325 330 335
 Gly Met Thr Met Pro Glu Met Pro Val Glu Leu Ser Leu Phe Asp Ser
 340 345 350
 Val Leu Gln Ala Ala Arg Gln Ser Gly Ile Asp Ala Lys Lys Val Glu
 355 360 365
 Ile Arg Pro Ala Ser Arg Asp Asp Gln Ala Trp Thr Val Thr Glu Ile
 370 375 380
 Asp Arg Arg Trp Pro Thr Gln Val Asp Ala Val Ala Val Asp Pro His
 385 390 395 400

Ser Leu Lys Val Leu Asp Ser Thr Arg Phe Gly Asp Phe Pro Leu Met
 405 410 415
 Ala Lys Leu Thr Arg Trp Gly Val Asp Phe His Met Gly Ile Leu Phe
 420 425 430
 Gly Leu Ala Asn Gln Leu Leu Leu Ile Ala Phe Gly Val Ala Leu Cys
 435 440 445
 Val Leu Ile Ile Trp Gly Tyr Arg Met Trp Trp Met Arg Arg Pro Ala
 450 455 460
 Thr Ser Ala Ala Asn Pro Val Gln Thr Leu Cys Gln Ser Trp Leu Ala
 465 470 475 480
 Leu Pro Leu Trp Gly Arg Gly Val Thr Phe Leu Ile Ser Leu Leu Leu
 485 490 495
 Gly Leu Ala Leu Pro Val Met Gly Val Ser Leu Val Val Phe Ile Val
 500 505 510
 Ile Asp Trp Leu Arg Trp Arg Ala Val Ser Gly Val Ser Leu Ala Gly
 515 520 525
 Thr Ser Val Lys
 530

<210> 6798

<211> 387

<212> PRT

<213> Enterobacter cloacae

<400> 6798

Thr Ala Ser Trp Arg Arg Val Trp His Lys Arg Ile Val Met Val Ala
 1 5 10 15
 Glu Leu Thr Ala Leu Arg Asp Gln Ile Asp Glu Val Asp Lys Ala Leu
 20 25 30
 Leu Asp Leu Leu Ala Arg Arg Met Ala Leu Val Ala Glu Val Gly Glu
 35 40 45
 Val Lys Ser Lys Tyr Gly Leu Pro Ile Tyr Val Pro Glu Arg Glu Ala
 50 55 60
 Ser Met Leu Ala Ser Arg Arg Lys Glu Ala Gln Ala Leu Gly Val Ser
 65 70 75 80
 Pro Asp Leu Ile Glu Asp Val Leu Arg Arg Val Met Arg Glu Ser Tyr
 85 90 95
 Ser Ser Glu Asn Asp Lys Gly Phe Lys Thr Leu Cys Pro Ser Leu Arg
 100 105 110
 Pro Val Val Ile Val Gly Gly Gly Gly Gln Met Gly Arg Leu Phe Glu
 115 120 125
 Lys Met Leu Thr Leu Ser Gly Tyr Gln Val Arg Ile Leu Glu Lys Glu
 130 135 140
 Asp Trp Pro His Ala Pro Glu Leu Met Lys Asp Ala Gly Met Val Ile
 145 150 155 160
 Val Ser Val Pro Ile His Val Thr Glu Gln Ile Ile Ala Lys Leu Pro
 165 170 175
 Pro Leu Pro Glu Asp Cys Ile Leu Val Asp Leu Ala Ser Val Lys Asn
 180 185 190
 Gly Pro Leu Gln Ala Met Leu Ala Ala His Thr Gly Pro Val Leu Gly
 195 200 205
 Leu His Pro Met Phe Gly Pro Asp Ser Gly Ser Leu Ala Lys Gln Val
 210 215 220
 Val Val Tyr Cys Asp Gly Arg Gln Pro Glu Ala Tyr Gln Trp Phe Leu
 225 230 235 240
 Glu Gln Ile Gln Val Trp Gly Ala Arg Leu His Arg Ile Ser Ala Val
 245 250 255
 Glu His Asp Gln Asn Met Ala Phe Ile Gln Ala Leu Arg His Phe Ala
 260 265 270
 Thr Phe Ala Tyr Gly Leu His Leu Ala Glu Glu Asn Val Gln Leu Glu
 275 280 285

Gln Leu Leu Ala Leu Ser Ser Pro Ile Tyr Arg Leu Glu Leu Ala Met
 290 295 300
 Val Gly Arg Leu Phe Ala Gln Asp Pro Gln Leu Tyr Ala Asp Ile Ile
 305 310 315 320
 Met Ser Ser Glu Asn Asn Leu Ala Leu Ile Lys Arg Tyr Tyr Gln Arg
 325 330 335
 Phe Gly Glu Ala Ile Thr Leu Leu Glu His Gly Asp Lys Gln Ala Phe
 340 345 350
 Ile Asp Ser Phe Arg Lys Val Glu His Trp Phe Gly Asp Tyr Ala Thr
 355 360 365
 Arg Phe Gln Ser Glu Ser Arg Thr Leu Leu Arg Gln Ala Asn Asp Ser
 370 375 380
 Arg Gln
 385

<210> 6799

<211> 311

<212> PRT

<213> Enterobacter cloacae

<400> 6799

Cys Asn Asp Val Tyr Thr Glu Ser Gln His Cys Trp Leu Phe Ser Phe
 1 5 10 15
 Trp Gly Thr Val Met Ala Glu Pro Gln Leu Leu Leu Asn Tyr Thr Gly
 20 25 30
 His Leu Pro Glu Cys Pro Thr Trp Ser Ala Glu Glu Lys Ala Leu Tyr
 35 40 45
 Trp Ala Asp Ile Leu Glu Gly Glu Ile His Arg Tyr His Leu Pro Thr
 50 55 60
 Ala Glu His Ser Val Leu Ser Phe His Glu Glu Val Gly Cys Phe Ala
 65 70 75 80
 Leu Arg Glu Arg Gly Gly Phe Ile Val Ala Met Arg Asn Ala Ile Trp
 85 90 95
 Leu Thr Asp Lys His Gly Leu Leu Gln Arg Lys Val Cys Asp Asn Pro
 100 105 110
 Ser Asn Pro Gln Leu Ala Arg Phe Asn Asp Gly Gly Thr Asp His Gln
 115 120 125
 Gly Arg Phe Tyr Ala Gly Thr Phe Trp Gly Pro Gly Asp Tyr Asn Gly
 130 135 140
 Ala Met Leu Met Arg Ile Asp Asn Asp Leu Thr Pro Lys Val Ile Gln
 145 150 155 160
 Cys Asp Ile His Gly His Asn Gly Leu Ala Phe Ser Pro Asp Lys Arg
 165 170 175
 Trp Met Phe Thr Ser Asp Thr Pro Asn Gly Val Ile Tyr Arg Thr Pro
 180 185 190
 Leu Asp Glu Gln Gly Glu Pro Gly Lys Arg Glu Glu Phe Arg Arg Phe
 195 200 205
 Ser Glu Gly Asp Gly Ile Pro Asp Gly Ala Ala Met Asp Glu Glu Gly
 210 215 220
 Cys Tyr Trp Ser Ala Leu Phe Asp Gly Trp Arg Ile Ala Arg Phe Ser
 225 230 235 240
 Pro Gln Gly Glu Gln Leu Glu Glu His Arg Leu Pro Val Arg Cys Pro
 245 250 255
 Thr Met Val Cys Phe Gly Gly Asp Asp Met Lys Thr Leu Phe Ile Thr
 260 265 270
 Thr Thr Arg Glu Asn Met Glu Ala Glu Glu Leu Ala Lys Tyr Pro Leu
 275 280 285
 Ser Gly Ala Ile Phe Thr Leu Pro Val Asn Val Ala Gly Met Lys Lys
 290 295 300
 Ser Arg Phe Ile Glu His
 305 310

<210> 6800
 <211> 250
 <212> PRT
 <213> Enterobacter cloacae

<400> 6800
 Gly Ser Arg Gly Leu Val Met Thr Lys Leu Ile Val Pro Glu Trp Pro
 1 5 10 15
 Leu Pro Glu Gly Val Ala Ala Cys Ser Thr Arg Ile Gly Gly Val
 20 25 30
 Ser Gln Gly Ala Trp Glu Ser Leu Asn Leu Gly Ala His Cys Gly Asp
 35 40 45
 Asn Leu Glu His Val Glu Glu Asn Arg Lys Arg Leu Phe Ala Ala Gly
 50 55 60
 Asn Leu Pro Ser Lys Pro Val Trp Leu Glu Gln Val His Gly Lys Ala
 65 70 75 80
 Val Leu Lys Leu Thr Gly Glu Pro Tyr Ala Ser Lys Arg Ala Asp Ala
 85 90 95
 Ser Tyr Ser Asn Thr Pro Gly Thr Val Cys Ala Val Met Thr Ala Asp
 100 105 110
 Cys Leu Pro Val Leu Phe Cys Asn Gln Ala Gly Thr Glu Val Ala Ala
 115 120 125
 Ala His Ala Gly Trp Arg Gly Leu Cys Glu Gly Val Leu Glu Glu Thr
 130 135 140
 Val Ala Cys Phe Gln Asp Asp Ser Ala Asn Leu Ile Ala Trp Leu Gly
 145 150 155 160
 Pro Ala Ile Gly Pro Gln Ala Phe Glu Val Gly Pro Glu Val Arg Asp
 165 170 175
 Ala Phe Met Glu Lys Asp Pro Gln Ala Val Glu Ala Phe Val Ala Ser
 180 185 190
 Gly Asp Lys Tyr Leu Ala Asp Ile Tyr Gln Leu Ala Arg Gln Arg Leu
 195 200 205
 Asn Asn Val Gly Val Thr Gln Ile Phe Gly Gly Asp Arg Cys Thr Phe
 210 215 220
 Thr Glu Lys Gly Asp Phe Phe Ser Tyr Arg Arg Asp Lys Thr Thr Gly
 225 230 235 240
 Arg Met Ala Ser Phe Ile Trp Leu Ile
 245 250

<210> 6801
 <211> 359
 <212> PRT
 <213> Enterobacter cloacae

<220>
 <221> UNSURE
 <222> (343)

<400> 6801
 Pro Val Met Gly Gly Val Met Arg Leu Asp Arg Leu Thr Asn Lys Phe
 1 5 10 15
 Gln Leu Ala Leu Ala Asp Ala Gln Ser Leu Ala Leu Gly His Asp Asn
 20 25 30
 Gln Phe Ile Glu Pro Leu His Leu Met Ser Ala Leu Leu Asn Gln Glu
 35 40 45
 Gly Gly Ser Val Arg Pro Leu Leu Thr Ser Ala Gly Ile Asn Ala Gly
 50 55 60
 Gln Leu Arg Thr Ala Ile Asp Gln Ala Leu Ser Arg Leu Pro Gln Val
 65 70 75 80
 Glu Gly Thr Gly Gly Asp Val Gln Pro Ser Gln Asp Leu Val Arg Val

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<210> 6802
<211> 233
<212> PRT
<213> Enterobacter cloacae
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Ala	Trp	Leu	Trp	Trp	Ala	Ala	Pro	Val	Trp	Asn	Glu	Gln	Val	Pro	Asp
1				5					10					15	
Asn	Pro	Pro	Asn	Glu	Ile	Tyr	Ala	Thr	Ala	Gln	Gln	Lys	Leu	Gln	Asp
			20					25					30		
Gly	Asn	Trp	Lys	Gln	Ala	Ile	Thr	Gln	Leu	Glu	Ala	Leu	Asp	Asn	Arg
			35				40					45			
Tyr	Pro	Phe	Gly	Pro	Tyr	Ser	Gln	Gln	Val	Gln	Leu	Asp	Leu	Ile	Tyr
	50					55					60				
Ala	Tyr	Tyr	Lys	Asn	Ala	Asp	Leu	Pro	Leu	Ala	Gln	Ala	Thr	Ile	Asp
65					70					75				80	
Arg	Phe	Met	Arg	Leu	Asn	Pro	Thr	His	Pro	Asn	Ile	Asp	Tyr	Val	Met
				85					90					95	
Tyr	Met	Arg	Gly	Leu	Thr	Asn	Met	Ala	Leu	Asp	Asp	Ser	Ala	Leu	Gln
			100					105					110		
Gly	Phe	Phe	Gly	Val	Asp	Arg	Ser	Asp	Arg	Asp	Pro	Gln	His	Ala	Arg
			115				120					125			
Asp	Ala	Phe	Asn	Asp	Phe	Ser	Lys	Leu	Val	Arg	Ser	Tyr	Pro	Asn	Ser
	130					135					140				
Gln	Tyr	Ile	Thr	Asp	Ala	Thr	Lys	Arg	Leu	Val	Phe	Leu	Lys	Asp	Arg

145		150		155		160									
Leu	Ala	Lys	Tyr	Glu	Tyr	Ser	Val	Ala	Glu	Tyr	Tyr	Thr	Arg	Arg	Gly
		165		170		175									
Ala	Trp	Val	Ala	Val	Val	Asn	Arg	Val	Glu	Gly	Met	Leu	Arg	Asp	Tyr
		180		185		190									
Pro	Asp	Thr	Gln	Ala	Thr	Arg	Asp	Gly	Leu	Lys	Leu	Met	Glu	Asn	Ala
		195		200		205									
Tyr	Arg	Gln	Met	Gln	Met	Thr	Ala	Gln	Ala	Asp	Lys	Val	Ala	Lys	Ile
		210		215		220									
Ile	Ala	Ala	Asn	Ser	Ser	Asn	Thr								
225		230													

<210> 6803

<211> 132

<212> PRT

<213> Enterobacter cloacae

<400> 6803

His	Trp	Val	Gly	Tyr	Ala	Gly	Ile	Thr	Lys	Thr	Glu	Arg	Gln	Glu	Val
1			5						10					15	
Lys	Phe	Met	Thr	Met	Asn	Ile	Thr	Ser	Lys	Gln	Met	Glu	Ile	Thr	Pro
			20					25					30		
Ala	Ile	Arg	Gln	His	Val	Ala	Asp	Arg	Leu	Ala	Lys	Leu	Asp	Lys	Trp
			35				40					45			
Gln	Thr	His	Leu	Ile	Asn	Pro	His	Ile	Ile	Leu	Ser	Lys	Glu	Pro	Gln
			50			55					60				
Gly	Phe	Ile	Ala	Asp	Ala	Thr	Ile	Asn	Thr	Pro	Asn	Gly	His	Leu	Val
65				70					75					80	
Ala	Ser	Ala	Lys	His	Glu	Asp	Met	Tyr	Thr	Ala	Ile	Asn	Asp	Leu	Ile
			85					90						95	
Asn	Lys	Leu	Glu	Arg	Gln	Leu	Asn	Lys	Val	Gln	His	Lys	Gly	Glu	Ala
			100				105						110		
Arg	Arg	Ala	Ala	Thr	Ser	Val	Lys	Asp	Ala	Ser	Phe	Ala	Glu	Glu	Val
			115				120					125			
Glu	Glu	Glu													
130															

<210> 6804

<211> 143

<212> PRT

<213> Enterobacter cloacae

<400> 6804

Asn	Tyr	Thr	Arg	Thr	Leu	Val	Ser	Gln	Ala	Met	Leu	Thr	Lys	Arg	Arg
1				5					10					15	
Ile	Ala	Met	Arg	Ser	Ile	Thr	Leu	Met	Leu	Leu	Ser	Leu	Ile	Leu	Ser
			20					25					30		
Gly	Cys	Gln	Ile	Asn	Pro	Tyr	Ala	Phe	Gln	Pro	Gly	Trp	Thr	Ser	Pro
			35				40					45			
Asp	Trp	Phe	Thr	Ala	Gly	Lys	Glu	Asp	Ala	Met	Asn	Gly	Val	Pro	Val
			50			55					60				
Lys	Asp	Asn	Gln	Ala	Leu	Ala	Asp	Ser	Phe	Asn	Asp	Pro	Gln	Val	Asp
65				70					75					80	
Arg	Gly	Glu	Tyr	Leu	Arg	Gly	Tyr	Ala	Asp	Gly	Gln	Lys	Lys	Ile	Cys
			85					90						95	
Glu	Glu	Gly	Phe	Ile	His	Ala	Trp	Gly	Leu	Ala	Gly	Lys	Ser	Phe	Pro
			100				105						110		
Ala	Ser	Cys	Asp	Thr	Thr	Glu	Asn	Ala	Val	Lys	Leu	Tyr	Glu	Ser	Trp
			115				120						125		
Gln	Gln	Gly	Met	Asp	Glu	Ser	Met	Arg	Ser	Ser	Arg	Leu	Asn		
130						135					140				

<210> 6805
 <211> 200
 <212> PRT
 <213> Enterobacter cloacae

<400> 6805
 Thr Met Val Phe Cys Arg Gln Phe Leu Arg Thr Ser Ile Ser Gly Ala
 1 5 10 15
 Val Trp Arg Ile Leu Met Arg Asn Ala Ile Leu Ile Ala Leu Leu Arg
 20 25 30
 Leu Pro Leu Ala Leu Met Leu Phe Ile Leu Val Ala Pro Ala Lys Ala
 35 40 45
 Gly Ser Phe Thr Glu Thr Asp Lys Ser Val Arg Ser Ile Val Ser Gly
 50 55 60
 Ile Val Ser Tyr Thr Arg Trp Pro Ala Leu Ser Gly Gln Pro Lys Leu
 65 70 75 80
 Cys Ile Tyr Ala Ser Ser His Tyr Arg Gln Ala Leu Ser Ser Glu Asp
 85 90 95
 Glu His Asn Pro Leu Pro Tyr Ser Pro Val Ile Val His Ser Asp Arg
 100 105 110
 Glu Ala Leu Thr Ala Arg Cys Asp Ala Leu Tyr Phe Gly Ser Glu Ser
 115 120 125
 Pro Ala Lys Gln Gln Glu Ile Ile Asn Gln Tyr Gln Gly Gln Ala Leu
 130 135 140
 Leu Leu Met Ser Glu Gln Asn Pro Glu Cys Val Ile Gly Ser Ala Phe
 145 150 155 160
 Cys Leu Ile Ile Glu His Asn Gln Val Arg Phe Ser Val Asn Leu Asp
 165 170 175
 Ala Leu Ala Arg Ser Gly Val Arg Val Asn Pro Asp Val Leu Met Leu
 180 185 190
 Ala Arg Asn Lys Lys His Glu
 195 200

<210> 6806
 <211> 393
 <212> PRT
 <213> Enterobacter cloacae

<400> 6806
 Asn Glu Thr Asp Asn Thr Met Thr Pro Glu Asn Pro Leu Leu Asp Leu
 1 5 10 15
 Arg Val Lys Ile Ser Ala Leu Asp Glu Lys Leu Leu Ala Leu Leu Ala
 20 25 30
 Glu Arg Arg Ala Leu Ala Val Glu Val Gly Lys Ala Lys Leu Glu Ser
 35 40 45
 His Arg Pro Val Arg Asp Ile Asp Arg Glu Arg Asp Leu Leu Glu Arg
 50 55 60
 Leu Ile Gln Leu Gly Lys Ala His His Leu Asp Ala His Tyr Ile Thr
 65 70 75 80
 Arg Leu Phe Gln Leu Ile Ile Glu Asp Ser Val Leu Thr Gln Gln Ala
 85 90 95
 Leu His Gln Gln His Leu Asn Lys Thr Asn Pro His Ser Ala Arg Ile
 100 105 110
 Ala Phe Leu Gly Pro Lys Gly Ser Tyr Ser His Leu Ala Ala Arg Gln
 115 120 125
 Tyr Ala Ala Arg His Phe Glu Glu Phe Ile Glu Ser Gly Cys Ala Lys
 130 135 140
 Phe Ala Asp Ile Phe Asn Gln Val Glu Thr Gly Gln Ala Asp Tyr Ala
 145 150 155 160
 Val Val Pro Ile Glu Asn Thr Ser Ser Gly Ala Ile Asn Asp Val Tyr

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                165                170                175
Asp Leu Leu Gln His Thr Ser Leu Ser Leu Val Gly Glu Leu Thr Ile
                180                185                190
Pro Ile Asp His Cys Val Leu Val Ser Gly Ser Thr Asp Leu Asn Gln
                195                200                205
Ile Glu Thr Val Tyr Ser His Pro Gln Pro Phe Gln Gln Cys Ser Gln
                210                215                220
Phe Leu Asn Arg Tyr Pro His Trp Lys Ile Glu Tyr Thr Glu Ser Thr
225                230                235                240
Ser Ala Ala Met Glu Lys Val Ala Gln Ala Asn Ser Pro Ala Val Ala
                245                250                255
Ala Leu Gly Ser Glu Ala Gly Gly Ala Leu Tyr Gly Leu Gln Val Leu
                260                265                270
Glu Arg Asn Leu Ala Asn Gln Thr Gln Asn Ile Thr Arg Phe Val Val
                275                280                285
Leu Ala Arg Lys Ala Ile Asn Val Ser Asp Gln Val Pro Ala Lys Thr
290                295                300
Thr Leu Leu Met Ala Thr Gly Gln Gln Ala Gly Ala Leu Val Glu Ala
305                310                315                320
Leu Leu Val Leu Arg Asn His Asn Leu Ile Met Thr Lys Leu Glu Ser
                325                330                335
Arg Pro Ile His Gly Asn Pro Trp Glu Glu Met Phe Tyr Leu Asp Val
                340                345                350
Gln Ala Asn Leu Glu Ser Ala Ser Met Gln Lys Ala Leu Arg Glu Leu
                355                360                365
Gly Glu Ile Thr Arg Ser Met Lys Val Leu Gly Cys Tyr Pro Ser Glu
370                375                380
Thr Val Val Pro Val Asp Pro Ala
385                390

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<210> 6807

<211> 414

<212> PRT

<213> Enterobacter cloacae

<400> 6807

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Cys Ser His Gly Ile Arg Ser Met Asn Lys Glu Val Val Pro Thr Pro
1                5                10                15
Arg Pro Thr Phe Lys Arg Thr Leu Arg Arg Ile Ser Met Ile Ser Val
                20                25                30
Ile Ile Thr Met Thr Phe Ile Trp Leu Leu Leu Cys Phe Ala Ser Val
                35                40                45
Val Thr Leu Lys Gln Tyr Ala Gln Lys Asn Leu Glu Leu Thr Gly Ala
50                55                60
Thr Met Ser His Ser Leu Glu Ala Ser Leu Val Phe Asn Asp Ala Val
65                70                75                80
Ala Ala Asn Glu Thr Leu Ala Thr Leu Gly Lys Gln Gly Gln Phe Ala
                85                90                95
Val Ala Glu Val Leu Asn Ala His His Lys Arg Phe Ala Trp Trp Ser
100                105                110
Trp Asn Pro Ala Asp Asn Thr Asp Thr Leu Gly Ala Leu Val Asn Arg
115                120                125
Trp Leu Phe Pro Val Pro Val Ala Gln Pro Ile Ile His Asn Gly Asn
130                135                140
Val Ile Gly Glu Ile Arg Leu Thr Ala Arg Asp Ser Leu Ile Ser His
145                150                155                160
Phe Ile Trp Leu Ser Phe Ala Val Leu Thr Gly Cys Ile Leu Phe Ala
                165                170                175
Ser Ala Val Ala Leu Thr Ile Tnr Arg Ser Leu His His Gly Met Val
                180                185                190
Val Glu Met Gln Asn Ile Thr Asp Val Val His Asp Val Arg Thr Asn

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Arg	Asn	Phe	Ser	Arg	Arg	Val	Thr	Glu	Gly	Arg	Ile	Glu	Glu	Phe	His
210						215					220				
Gln	Phe	Gly	Glu	Asp	Phe	Asn	Ser	Leu	Leu	Asp	Glu	Met	Glu	Glu	Trp
225					230					235					240
Gln	Leu	Lys	Leu	Gln	Ala	Lys	Asn	Ala	Gln	Leu	Leu	Arg	Thr	Ala	Met
				245					250					255	
His	Asp	Pro	Leu	Thr	Gly	Leu	Ala	Asn	Arg	Ala	Ala	Phe	Arg	Asn	Asn
			260					265					270		
Ile	Ala	Ala	Leu	Met	Asn	Asp	Ala	Ser	Ala	Lys	Thr	Asn	Ser	Ala	Leu
		275					280					285			
Leu	Phe	Leu	Asp	Gly	Asp	Asn	Phe	Lys	Phe	Ile	Asn	Asp	Thr	Trp	Gly
	290					295					300				
His	Ala	Ala	Gly	Asp	Cys	Val	Leu	Ile	Glu	Ala	Ala	Lys	Arg	Met	Val
305					310					315					320
Glu	Phe	Gly	Glu	Lys	Arg	His	Gln	Ser	Tyr	Arg	Leu	Gly	Gly	Asp	Glu
				325					330					335	
Phe	Ala	Met	Ile	Leu	Tyr	Gly	Val	His	Thr	Ala	Arg	Glu	Val	Glu	Tyr
		340						345					350		
Ile	Cys	Ala	Ala	Leu	Ser	Gln	Gln	Phe	Ile	Arg	Pro	Phe	Asp	Leu	His
	355						360					365			
Asn	Gly	His	Thr	Ala	Ser	Met	Ser	Leu	Ser	Ile	Gly	Phe	Ala	Leu	Ala
	370					375					380				
Trp	Glu	Asn	Ala	Ser	Val	Glu	Ala	Leu	Leu	Glu	Gln	Ala	Asp	Arg	Asn
385					390					395					400
Met	Tyr	Leu	Val	Lys	Asn	Gln	Arg	Ser	Lys	Thr	Ile	Ser			
				405					410						

<210> 6808

<211> 166

<212> PRT

<213> Enterobacter cloacae

<400> 6808

Lys	Glu	Asp	Asp	Met	Leu	Lys	Arg	Tyr	Phe	Ala	Pro	Leu	Leu	Leu	Ala
1				5					10					15	
Ser	Leu	Ala	Met	Ser	Gly	Cys	Gln	Ser	Ser	Pro	Glu	Gly	Lys	Phe	Thr
			20					25					30		
Pro	Glu	Gln	Ile	Ala	Ala	Met	Lys	Ser	Tyr	Gly	Phe	Asn	Glu	Leu	Asn
		35					40					45			
Gly	Asp	Trp	Ser	Leu	Gly	Leu	Ser	Asp	Lys	Ile	Leu	Phe	Asp	Lys	Asn
	50					55					60				
Asp	Ala	Arg	Leu	Arg	Pro	Glu	Ser	Gln	Thr	Gln	Ile	Gln	Thr	Met	Ala
65					70					75					80
Ser	Arg	Leu	Ala	Ala	Thr	Gly	Leu	Asn	His	Ala	Arg	Met	Asp	Gly	His
				85					90					95	
Thr	Asp	Asn	Tyr	Gly	Glu	Glu	Ser	Tyr	Asn	Glu	Ala	Leu	Ser	Leu	Lys
		100						105					110		
Arg	Ala	Asn	Val	Val	Ala	Asp	Ala	Trp	Ala	Lys	Gly	Ala	Asn	Ile	Pro
	115						120					125			
Arg	Ser	Asn	Leu	Thr	Thr	Arg	Gly	Leu	Gly	Lys	Lys	Tyr	Pro	Val	Ser
	130					135					140				
Ser	Asn	Arg	Thr	Ala	Gln	Gly	Arg	Ala	Glu	Asn	Arg	Arg	Val	Ala	Val
145					150					155					160
Val	Ile	Ser	Thr	Pro											
				165											

<210> 6809

<211> 272

<212> PRT

<213> Enterobacter cloacae

<400> 6809

Leu Ala Ala Leu Glu Pro Gly Leu His Arg Ser Gly Gly Glu Ser Met
 1 5 10 15
 Asn Thr Ala Arg Leu Asn Gln Gly Thr Pro Leu Leu Leu Asn Gly Val
 20 25 30
 Thr Lys Arg Tyr Gly Asp Asn Thr Ile Leu Asn Ala Leu Asp Leu His
 35 40 45
 Ile Pro Ala Gly Gln Phe Val Ala Val Val Gly Arg Ser Gly Gly Gly
 50 55 60
 Lys Ser Thr Leu Leu Arg Leu Leu Ala Gly Leu Glu Ala Pro Asn Ser
 65 70 75 80
 Gly Asp Ile Leu Ala Gly Thr Thr Pro Leu Ala Thr Ile Gln Asp Asp
 85 90 95
 Thr Arg Met Met Phe Gln Asp Ala Arg Leu Leu Pro Trp Lys Thr Val
 100 105 110
 Met Asp Asn Val Gly Leu Gly Leu Lys Gly Ser Trp Arg Glu Asp Ala
 115 120 125
 Arg Gln Ala Leu Ala Ala Val Gly Leu Glu Asn Arg Ala Gly Glu Trp
 130 135 140
 Pro Ala Ala Leu Ser Gly Gly Gln Lys Gln Arg Val Ala Leu Ala Arg
 145 150 155 160
 Ala Leu Ile His Arg Pro Gly Leu Leu Leu Leu Asp Glu Pro Leu Gly
 165 170 175
 Ala Leu Asp Ala Leu Thr Arg Ile Glu Met Gln Asp Leu Ile Glu Thr
 180 185 190
 Leu Trp Gln Thr His Gly Phe Thr Val Leu Leu Val Thr His Asp Val
 195 200 205
 Ser Glu Ala Val Ala Met Ala Asp Arg Val Leu Leu Ile Glu Glu Gly
 210 215 220
 Lys Ile Gly Leu Asp Leu Thr Val Asp Ile Pro Arg Pro Arg Arg Val
 225 230 235 240
 Gly Ser Ala Arg Leu Gly Glu Leu Glu Ala Glu Val Leu Asp Arg Val
 245 250 255
 Met Lys Arg Gly Val Ser Glu Arg Val Leu Ile Lys Ala Asn Ala
 260 265 270

<210> 6810

<211> 83

<212> PRT

<213> Enterobacter cloacae

<400> 6810

Thr Gly Tyr Thr Pro Glu Leu Phe Ile Val Leu Asn Ala Pro Val Arg
 1 5 10 15
 Gly Cys Tyr Ser Ala Pro Met Thr Gln Phe Ala Ser Pro Val Leu His
 20 25 30
 Thr Leu Leu Asp Thr Asp Ala Tyr Lys Leu His Met Gln Gln Ala Val
 35 40 45
 Phe His His Tyr His Asp Val His Val Ala Ala Glu Phe Arg Cys Arg
 50 55 60
 Gly Asp Asp Leu Leu Gly Ile Tyr Ala Asp Ser Ile Arg Ala Thr Gly
 65 70 75 80
 Leu His

<210> 6811

<211> 195

<212> PRT

<213> Enterobacter cloacae

<400> 6811

Gly Ala Thr Met Arg Val Ile Thr Leu Ala Gly Ser Pro Arg Phe Pro
 1 5 10 15
 Ser Arg Ser Ser Ala Leu Leu Glu Tyr Ala Arg Glu Lys Leu Asn Ala
 20 25 30
 Leu Asp Val Glu Val Cys His Trp Asn Leu His Asn Phe Ala Pro Glu
 35 40 45
 Asp Leu Leu Tyr Ala Arg Phe Asp Ser Pro Ala Leu Lys Thr Leu Ile
 50 55 60
 Glu Gln Leu Lys Ser Ala Asp Gly Leu Val Val Ala Thr Pro Ile Tyr
 65 70 75 80
 Lys Ala Ser Phe Ser Gly Ala Leu Lys Thr Leu Leu Asp Leu Leu Pro
 85 90 95
 Glu Arg Ala Leu Asp Gly Lys Val Val Leu Pro Leu Ala Thr Gly Gly
 100 105 110
 Thr Val Ala His Leu Leu Ala Val Asp Tyr Ala Leu Lys Pro Val Leu
 115 120 125
 Asn Ala Leu Lys Ala Gln Glu Ile Leu His Gly Val Phe Ala Asp Asp
 130 135 140
 Ser Gln Val Ile Asp Tyr Gln His Lys Pro His Phe Thr Pro Asn Leu
 145 150 155 160
 Gln Thr Arg Leu Asp Ser Ala Leu Glu Thr Phe Trp His Ala Leu Asn
 165 170 175
 Arg Arg Asp Arg His Ala Ala Ala Phe His Gln Ser Gln Gly Val Ala
 180 185 190
 His Val
 195

<210> 6812

<211> 386

<212> PRT

<213> Enterobacter cloacae

<400> 6812

Arg Lys Lys Ile Met Ser Leu Asn Leu Phe Trp Phe Leu Pro Thr His
 1 5 10 15
 Gly Asp Gly His Tyr Leu Gly Thr Glu Gly Ala Arg Pro Val Asp
 20 25 30
 His Gly Tyr Leu Gln Gln Ile Ala Gln Ala Ala Asp Arg Ile Gly Phe
 35 40 45
 Thr Gly Val Leu Ile Pro Thr Gly Arg Ser Cys Glu Asp Ala Trp Leu
 50 55 60
 Val Ala Ala Ser Met Ile Pro Val Thr Gln Arg Leu Lys Phe Leu Val
 65 70 75 80
 Ala Leu Arg Pro Ser Val Val Ser Pro Thr Val Ala Ala Arg Gln Ala
 85 90 95
 Ala Thr Leu Asp Arg Leu Ser Asn Gly Arg Ala Leu Phe Asn Leu Val
 100 105 110
 Thr Gly Ser Asp Pro Gln Glu Leu Ala Gly Asp Gly Val Phe Leu Asp
 115 120 125
 His Thr Glu Arg Tyr Glu Ala Ser Ala Glu Phe Thr Arg Val Trp Arg
 130 135 140
 Arg Leu Leu Glu Gly Glu Thr Val Thr Phe Glu Gly Lys His Ile His
 145 150 155 160
 Val Arg Asp Ala Gln Leu Tyr Phe Pro Pro Leu Gln Gln Pro Arg Pro
 165 170 175
 Pro Leu Tyr Phe Gly Gly Ser Ser Asp Val Ala Gln Glu Leu Ala Ala
 180 185 190
 Glu Gln Val Asp Leu Tyr Leu Thr Trp Gly Glu Pro Pro Glu Leu Val
 195 200 205
 Lys Glu Lys Ile Ala Gln Val Arg Ala Lys Ala Ala Glu His Gly Arg

210 215 220
 Thr Val Arg Phe Gly Ile Arg Leu His Val Ile Val Arg Glu Thr Asn
 225 230 235 240
 Asp Glu Ala Trp Gln Ala Ala Asp Arg Leu Ile Ala His Leu Asp Asp
 245 250 255
 Asp Thr Ile Ala Lys Ala Gln Ala Ala Phe Ala Lys Thr Asp Ser Val
 260 265 270
 Gly Gln His Arg Met Ala Ser Leu His Asn Gly Lys Arg Glu Asn Leu
 275 280 285
 Glu Ile Ser Pro Asn Leu Trp Ala Gly Val Gly Leu Val Arg Gly Gly
 290 295 300
 Ala Gly Thr Ala Leu Val Gly Asp Gly Pro Thr Val Ala Ala Arg Ile
 305 310 315 320
 Asn Glu Tyr Ala Ala Leu Gly Ile Asp Ser Phe Ile Leu Ser Gly Tyr
 325 330 335
 Pro His Leu Glu Glu Ala Tyr Lys Val Gly Glu Leu Leu Phe Pro His
 340 345 350
 Leu Asp Val Ala Ile Pro Glu Ile Pro Gln Pro Arg Gln Leu Gln Leu
 355 360 365
 Gln Gly Glu Ala Val Ala Asn Ala Phe Ile Pro Arg Lys Val Ala Gln
 370 375 380
 Ser
 385

<210> 6813

<211> 267

<212> PRT

<213> Enterobacter cloacae

<400> 6813

Gly Ala Thr Met Ser Ala Thr Ala Gln Lys Trp Leu Leu Arg Ala Ala
 1 5 10 15
 Pro Trp Phe Leu Pro Val Gly Ile Val Leu Val Trp Gln Leu Ala Ser
 20 25 30
 Ser Thr Gly Trp Leu Ser Ser Arg Ile Leu Pro Ser Pro Glu Gly Val
 35 40 45
 Val Glu Ala Phe Trp Ser Leu Ser Ala Ser Gly Glu Leu Trp Gln His
 50 55 60
 Leu Ala Ile Ser Ser Trp Arg Ala Val Ile Gly Phe Ser Ile Gly Gly
 65 70 75 80
 Ser Ile Gly Leu Thr Leu Gly Leu Ile Ser Gly Leu Ser Arg Trp Gly
 85 90 95
 Glu Arg Leu Leu Asp Thr Ser Val Gln Met Leu Arg Asn Val Pro His
 100 105 110
 Leu Ala Leu Ile Pro Leu Val Ile Leu Trp Phe Gly Ile Asp Glu Ser
 115 120 125
 Ala Lys Ile Phe Leu Val Ala Leu Gly Thr Leu Phe Pro Ile Tyr Ile
 130 135 140
 Asn Thr Trp His Gly Ile Arg Asn Ile Asp Arg Gly Leu Val Glu Met
 145 150 155 160
 Ala Arg Ser Tyr Gly Leu Ser Gly Phe Ala Leu Phe Thr His Val Ile
 165 170 175
 Leu Pro Gly Ala Leu Pro Ser Ile Met Val Gly Val Arg Phe Ala Leu
 180 185 190
 Gly Leu Met Trp Leu Thr Leu Ile Val Ala Glu Thr Ile Ser Ala Asn
 195 200 205
 Ser Gly Ile Gly Tyr Leu Ala Met Asn Ala Arg Glu Phe Leu Gln Thr
 210 215 220
 Asp Val Val Val Val Ala Ile Val Leu Tyr Ala Leu Leu Gly Lys Leu
 225 230 235 240
 Ala Asp Val Ser Ala Gln Trp Leu Glu Arg Ser Trp Leu Arg Trp Asn

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<210> 6814
<211> 338
<212> PRT
<213> Enterobacter cloacae
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Thr	Val	Gly	Ile	Ala	Thr	Arg	Arg	His	Phe	Ile	Asn	His	Lys	Glu	Trp
1				5					10					15	
Arg	Met	Phe	Lys	Thr	Val	Thr	Arg	Ile	Gly	Leu	Ala	Gly	Leu	Leu	Ala
			20					25					30		
Val	Ala	Ser	Leu	Ala	Gln	Ala	Thr	Glu	Lys	Ala	Pro	Glu	Ser	Leu	Arg
			35				40					45			
Ile	Gly	Tyr	Gln	Lys	Gly	Ser	Val	Ser	Met	Val	Leu	Ala	Lys	Ser	His
	50					55					60				
Ala	Leu	Leu	Glu	Lys	Arg	Phe	Pro	Glu	Thr	Lys	Phe	Ser	Trp	Val	Glu
65					70					75					80
Phe	Pro	Ala	Gly	Pro	Gln	Met	Leu	Glu	Ala	Leu	Asn	Val	Gly	Ser	Ile
				85					90					95	
Asp	Leu	Gly	Ser	Thr	Gly	Asp	Ile	Pro	Pro	Ile	Phe	Ala	Gln	Ala	Ala
			100				105						110		
Gly	Ala	Asp	Leu	Val	Tyr	Val	Gly	Val	Glu	Pro	Ala	Lys	Pro	Lys	Ala
			115				120					125			
Glu	Val	Ile	Leu	Val	Pro	Glu	Asn	Ser	Glu	Ile	Lys	Ser	Val	Ala	Asp
	130					135					140				
Leu	Lys	Gly	His	Lys	Val	Ala	Phe	Gln	Lys	Gly	Ser	Ser	Ser	His	Asn
145					150					155					160
Leu	Leu	Leu	Arg	Ala	Leu	Gln	Glu	Ala	Gly	Leu	Lys	Phe	Thr	Asp	Ile
				165					170					175	
Gln	Pro	Val	Tyr	Leu	Thr	Pro	Ala	Asp	Ala	Arg	Ala	Ala	Phe	Gln	Gln
			180					185					190		
Lys	Asn	Val	Asp	Ala	Trp	Ala	Ile	Trp	Asp	Pro	Tyr	Tyr	Ser	Ala	Ala
			195				200					205			
Leu	Leu	Gln	Gly	Gly	Val	Arg	Val	Leu	Lys	Asp	Gly	Thr	Thr	Leu	Lys
	210					215					220				
Gln	Thr	Gly	Ser	Phe	Tyr	Leu	Ala	Ala	Arg	Pro	Tyr	Ala	Glu	Lys	Asn
225					230					235					240
Gly	Ala	Phe	Ile	Gln	Gln	Val	Leu	Asp	Thr	Phe	Ser	Gln	Ala	Asp	Ala
				245					250					255	
Leu	Thr	Gln	Ser	Gln	Arg	Gln	Gln	Ser	Ile	Thr	Leu	Leu	Ala	Lys	Thr
			260					265					270		
Met	Gly	Leu	Pro	Glu	Pro	Val	Ile	Ala	Thr	Tyr	Leu	Asp	His	Arg	Pro
			275				280					285			
Pro	Thr	Thr	Ile	Ala	Pro	Val	Asp	Ala	His	Val	Ala	Ala	Leu	Gln	Gln
	290					295					300				
Gln	Thr	Ala	Asp	Leu	Phe	Tyr	Gln	Asn	Arg	Leu	Val	Pro	Lys	Gln	Val
305					310					315					320
Asn	Ile	Arg	Glu	Arg	Ile	Trp	Gln	Pro	Ala	Gly	Ile	Glu	Gly	Lys	Lys
				325					330					335	

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<210> 6815
<211> 102
<212> PRT
<213> Enterobacter cloacae
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Tyr Arg Thr Phe Arg Gly Arg Glu Arg Asn Met Arg Ile Lys Pro Asp
 1 5 10 15
 Asp Asn Trp Arg Trp Tyr Phe Cys Glu Glu His Asp Arg Met Met Leu
 20 25 30
 Asp Leu Ala Asn Gly Met Leu Phe Arg Ser Arg Phe Ala Arg Arg Met
 35 40 45
 Leu Thr Pro Asp Ala Phe Ala Pro Ser Gly Phe Cys Val Asp Asp Ala
 50 55 60
 Ala Leu Tyr Phe Ser Phe Glu Glu Lys Cys Arg Asp Leu Asp Leu Ser
 65 70 75 80
 Lys Glu Gln Arg Ala Glu Leu Val Leu Ser Leu His His Gly Thr Gly
 85 90 95
 Arg Ile Arg Val Met Leu
 100

<210> 6816

<211> 906

<212> PRT

<213> Enterobacter cloacae

<400> 6816

Leu Lys Arg Ala Leu Cys Leu Lys Arg Arg Thr Phe Cys Ile Ala Arg
 1 5 10 15
 Phe Thr Gln Gln Glu Tyr Ile Glu Ser Leu Leu Asp Lys Arg Cys Ile
 20 25 30
 Arg Phe Ser Met Thr Gln Gln Pro Gln Ala Lys Tyr Arg His Asp Tyr
 35 40 45
 Arg Ala Pro Glu Tyr Leu Ile Ser Asp Ile Asp Leu Thr Phe Asp Leu
 50 55 60
 Asp Ala Thr Lys Thr Val Val Thr Ala Val Ser Gln Val Thr Arg Gln
 65 70 75 80
 Ser Ala Thr Ala Val Ser Leu Arg Leu Asp Gly Glu Asp Leu Thr Leu
 85 90 95
 Val Ser Leu His Ile Asn Asp Glu Ala Trp Ser Asp Tyr Lys Glu Glu
 100 105 110
 Gly Asn Gln Leu Val Ile Asp Asn Leu Pro Glu Arg Phe Thr Leu Arg
 115 120 125
 Ile Val Asn Glu Ile Ser Pro Ala Ala Asn Thr Ala Leu Glu Gly Leu
 130 135 140
 Tyr Gln Ser Gly Val Ala Leu Cys Thr Gln Cys Glu Ala Glu Gly Phe
 145 150 155 160
 Arg His Ile Thr Trp Tyr Leu Asp Arg Pro Asp Val Leu Ala Arg Phe
 165 170 175
 Thr Thr Lys Ile Ile Ala Asp Lys Thr Leu Tyr Pro Tyr Leu Leu Ser
 180 185 190
 Asn Gly Asn Arg Ile Gly Glu Gly Glu Leu Glu Asn Gly Arg His Trp
 195 200 205
 Val Gln Trp Gln Asp Pro Phe Pro Lys Pro Cys Tyr Leu Phe Ala Leu
 210 215 220
 Val Ala Gly Asp Phe Asp Val Leu Arg Asp Thr Phe Lys Thr Arg Ser
 225 230 235 240
 Gly Arg Glu Val Ala Leu Glu Leu Phe Val Asp Arg Gly Asn Leu Asp
 245 250 255
 Arg Ala Pro Trp Ala Met Thr Ser Leu Ile Asn Ser Met Lys Trp Asp
 260 265 270
 Glu Thr Arg Phe Gly Leu Glu Tyr Asp Leu Asp Ile Tyr Met Ile Val
 275 280 285
 Ala Val Asp Phe Phe Asn Met Gly Ala Met Glu Asn Lys Gly Leu Asn
 290 295 300
 Ile Phe Asn Ser Lys Tyr Val Leu Ala Arg Thr Asp Thr Ala Thr Asp
 305 310 315 320

Lys Asp Tyr Leu Asp Ile Glu Arg Val Ile Gly His Glu Tyr Phe His
 325 330 335
 Asn Trp Thr Gly Asn Arg Val Thr Cys Arg Asp Trp Phe Gln Leu Ser
 340 345 350
 Leu Lys Glu Gly Leu Thr Val Phe Arg Asp Gln Glu Phe Ser Ser Asp
 355 360 365
 Leu Gly Ser Arg Ala Val Asn Arg Ile Asn Asn Val Arg Thr Met Arg
 370 375 380
 Gly Leu Gln Phe Ala Glu Asp Ala Ser Pro Met Ala His Pro Ile Arg
 385 390 395 400
 Pro Asp Lys Val Ile Glu Met Asn Asn Phe Tyr Thr Leu Thr Val Tyr
 405 410 415
 Glu Lys Gly Ala Glu Ile Ile Arg Met Ile His Thr Leu Leu Gly Glu
 420 425 430
 Glu Asn Phe Gln Lys Gly Met Gln Leu Tyr Phe Glu Arg His Asp Gly
 435 440 445
 Ser Ala Ala Thr Cys Asp Asp Phe Val Gln Ala Met Glu Asp Ala Ser
 450 455 460
 Asn Val Asp Leu Ser His Phe Arg Arg Trp Tyr Ser Gln Ala Gly Thr
 465 470 475 480
 Pro Ile Val Thr Val Lys Asp Asp Tyr Asn Pro Glu Thr Glu Gln Tyr
 485 490 495
 Thr Leu Thr Ile Ser Gln Arg Thr Pro Pro Thr Ala Glu Gln Glu Glu
 500 505 510
 Lys His Pro Leu His Ile Pro Phe Ser Val Glu Leu Tyr Asp Asn Glu
 515 520 525
 Gly Asn Val Ile Pro Leu Gln Lys Gly Gly His Pro Val His Asn Val
 530 535 540
 Leu Asn Val Thr Gln Ala Glu Gln Thr Phe Ile Phe Asp Asn Val Tyr
 545 550 555 560
 Phe Gln Pro Val Pro Ala Leu Leu Cys Glu Phe Ser Ala Pro Val Lys
 565 570 575
 Leu Glu Tyr Lys Trp Ser Asp Gln Gln Leu Thr Phe Leu Met Arg His
 580 585 590
 Ala Arg Asn Asp Phe Ser Arg Trp Asp Ala Ala Gln Ser Leu Leu Ala
 595 600 605
 Thr Tyr Ile Lys Leu Asn Val Asn Arg Tyr Gln Gln Gly Gln Pro Leu
 610 615 620
 Thr Leu Pro Val His Val Ala Asp Ala Phe Arg Ala Ile Leu Leu Asp
 625 630 635 640
 Glu Asn Ile Asp Pro Ala Leu Ala Ala Glu Ile Leu Thr Leu Pro Ser
 645 650 655
 Ala Thr Glu Ile Ala Glu Leu Phe Asp Ile Ile Asp Pro Ile Ala Ile
 660 665 670
 Val Ala Val Arg Glu Ala Leu Thr Arg Thr Leu Val Thr Glu Leu Ala
 675 680 685
 Asp Glu Phe Leu Ala Ile Tyr Asn Ala Asn Lys Leu Asp Ala Tyr Arg
 690 695 700
 Val Glu His Ala Asp Ile Gly Lys Arg Ser Leu Arg Asn Thr Cys Leu
 705 710 715 720
 Arg Tyr Leu Ala Phe Gly Glu Ala Glu Leu Ala Asn Thr Leu Val Ser
 725 730 735
 Lys Gln Tyr His Glu Ala Asp Asn Met Thr Asp Ala Leu Ala Ala Leu
 740 745 750
 Ala Ala Ser Val Ala Ala Glu Leu Pro Cys Arg Asp Ala Leu Met Gln
 755 760 765
 Glu Tyr Asp Asp Lys Trp Tyr Gln Asp Gly Leu Val Met Asp Lys Trp
 770 775 780
 Phe Ile Leu Gln Ala Thr Ser Pro Ala Ala Asp Val Leu Ser Lys Val
 785 790 795 800
 Arg Ser Leu Leu Lys His Arg Ser Phe Thr Met Ser Asn Pro Asn Arg

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<210> 6817
<211> 350
<212> PRT
<213> Enterobacter cloacae
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<400> 6817																
Ser 1	Pro	Pro	Gly	Leu 5	His	Thr	Gly	Asn 10	Pro	Gly	Glu	Phe	Met	Tyr 15	Tyr	
Pro	Phe	Val	Arg 20	Lys	Ala	Leu	Phe	Gln 25	Leu	Asp	Pro	Glu	Arg 30	Ala	His	
Glu	Phe	Thr 35	Phe	Gln	Gln	Leu	Arg 40	Arg	Ile	Thr	Gly	Thr 45	Pro	Leu	Ala	
Ala	Leu 50	Val	His	Gln	Asn 55	Val	Pro	Glu	Lys	Pro	Val	Gln 60	Cys	Met	Gly	
Leu 65	Thr	Phe	Lys	Asn 70	Pro	Leu	Gly	Leu	Ala	Ala 75	Gly	Leu	Asp	Lys	Asn 80	
Gly	Glu	Cys	Ile	Asp 85	Ala	Leu	Gly	Ala	Met 90	Gly	Phe	Gly	Ser	Ile 95	Glu	
Ile	Gly	Thr 100	Val	Thr	Pro	Arg	Pro	Gln 105	Pro	Gly	Asn	Asp 110	Lys	Pro	Arg	
Leu	Phe	Arg 115	Leu	Val	Glu	Ala	Glu 120	Gly	Leu	Ile	Asn	Arg 125	Met	Gly	Phe	
Asn	Asn 130	Leu	Gly	Val	Asp 135	His	Leu	Val	Glu	Asn 140	Val	Lys	Lys	Ala	His	
Phe 145	Asp	Gly	Val	Leu	Gly 150	Ile	Asn	Ile	Gly	Lys 155	Asn	Lys	Asp	Thr	Pro 160	
Val	Glu	Gln	Gly	Lys 165	Asp	Asp	Tyr	Leu	Ile	Cys 170	Met	Glu	Lys	Val 175	Tyr	
Ala	Tyr	Ala 180	Gly	Tyr	Ile	Ala	Val	Asn 185	Ile	Ser	Ser	Pro	Asn 190	Thr	Pro	
Gly	Leu	Arg 195	Ser	Leu	Gln	Tyr	Gly 200	Glu	Ala	Leu	Asp	Asp 205	Leu	Leu	Ser	
Ala	Ile 210	Lys	Asn	Lys	Gln	Thr	Ala 215	Leu	Gln	Ala	Ile	His 220	His	Lys	Tyr	
Val 225	Pro	Val	Ala	Val	Lys 230	Ile	Ala	Pro	Asp	Leu	Ser	Ala	Glu	Glu	Leu 240	
Ile	Gln	Val	Ala	Asp 245	Ser	Leu	Val	Arg	His 250	Asn	Ile	Asp	Gly	Val 255	Ile	
Ala	Thr	Asn 260	Thr	Thr	Leu	Asp	Arg	Ser	Leu	Val	Gln	Gly	Met 270	Lys	Asn	
Cys	Asp	Glu 275	Ala	Gly	Gly	Leu	Ser	Gly	Arg	Pro	Val	Gln	Leu	Lys	Ser	
Thr	Glu 290	Ile	Ile	Arg	Ala	Leu	Ser	Ala	Glu	Leu	Lys	Gly	Gln	Leu	Pro	
Ile 305	Ile	Gly	Val	Gly	Gly 310	Ile	Asp	Ser	Val	Ile	Ala	Ala	Arg	Glu	Lys 320	
Met	Ala	Ala	Gly	Ala	Ser	Leu	Val	Gln	Ile	Tyr	Ser	Gly	Phe	Ile	Phe	

Lys Gly Pro Pro 325 330 335
 Leu Ile Lys Glu Ile Val Thr His Ile
 340 345 350

<210> 6818

<211> 468

<212> PRT

<213> Enterobacter cloacae

<400> 6818

Leu Ala Asp Leu Glu Phe Asp Pro Ala His Met Leu Ser Ser Gln Ser
 1 5 10 15
 Pro Ser Ile Tyr Thr Val Ser Arg Leu Asn Gln Thr Val Arg Leu Leu
 20 25 30
 Leu Glu Gln Glu Met Gly Gln Val Trp Ile Ser Gly Glu Ile Ser Asn
 35 40 45
 Phe Thr Gln Pro Ala Ser Gly His Trp Tyr Phe Thr Leu Lys Asp Asp
 50 55 60
 Thr Ala Gln Val Arg Cys Ala Met Phe Arg Asn Ser Asn Arg Arg Val
 65 70 75 80
 Thr Phe Arg Pro Gln His Gly Gln Gln Val Leu Val Arg Ala Asn Ile
 85 90 95
 Thr Leu Tyr Glu Pro Arg Gly Asp Tyr Gln Ile Ile Val Glu Ser Met
 100 105 110
 Gln Pro Ala Gly Glu Gly Leu Leu Gln Gln Lys Tyr Glu Gln Leu Lys
 115 120 125
 Ala Met Leu Ser Ala Glu Gly Leu Phe Asp Gln Gln Phe Lys Lys Pro
 130 135 140
 Leu Pro Ser Pro Ala His Cys Val Gly Val Ile Thr Ser Lys Thr Gly
 145 150 155 160
 Ala Ala Leu His Asp Ile Leu His Val Leu Lys Arg Arg Asp Pro Ser
 165 170 175
 Leu Pro Val Ile Ile Tyr Pro Thr Ala Val Gln Gly Asp Asp Ala Pro
 180 185 190
 Gly Gln Ile Val Arg Ala Ile Glu Leu Ala Asn Ala Arg Gln Glu Cys
 195 200 205
 Asp Val Leu Ile Val Gly Arg Gly Gly Ser Leu Glu Asp Leu Trp
 210 215 220
 Ser Phe Asn Asp Glu Arg Val Ala Arg Ala Ile Phe Ala Ser Leu Ile
 225 230 235 240
 Pro Val Val Ser Ala Val Gly His Glu Thr Asp Val Thr Ile Ala Asp
 245 250 255
 Phe Val Ala Asp Leu Arg Ala Pro Thr Pro Ser Ala Ala Ala Glu Val
 260 265 270
 Val Ser Arg Asn Gln Gln Glu Leu Arg Gln Ile Gln Asn Gly Gln
 275 280 285
 Gln Arg Leu Glu Met Ala Met Asp Tyr Phe Leu Ala Asn Arg Thr Arg
 290 295 300
 Arg Phe Thr Gln Leu His His Arg Leu Gln Gln Gln His Pro Gln Leu
 305 310 315 320
 Arg Leu Ala Arg Gln Gln Thr Val Leu Glu Arg Leu Arg Gln Arg Met
 325 330 335
 Asn Phe Ala Leu Asp Asn Gln Leu Lys Arg Ala Val Ser Arg Gln Gln
 340 345 350
 Arg Met Thr Gln Arg Leu Asn Gln Asn Pro Gln Pro Lys Val Tyr
 355 360 365
 Arg Ala Gln Thr Arg Ile Gln Gln Leu Glu Tyr Arg Leu Ala Glu Asn
 370 375 380
 Ile Arg Ser Arg Leu Ser Ala Thr Arg Glu Arg Phe Gly Asn Ala Val
 385 390 395 400
 Thr His Leu Glu Ala Val Ser Pro Leu Ser Thr Leu Ala Arg Gly Tyr

				405					410				415
Ser	Val	Thr	Thr	Ala	Thr	Asp	Gly	Lys	Val	Leu	Lys	Gln	Thr
			420					425				430	
Val	Lys	Ala	Gly	Asp	Val	Leu	Thr	Thr	Arg	Leu	Ser	Asp	Gly
		435					440					445	Trp
Glu	Ser	Glu	Val	Lys	Glu	Ile	Lys	Pro	Val	Lys	Lys	Thr	Arg
	450					455						460	Gln
Lys	Ser	Gly											Arg
465													

<210> 6819

<211> 369

<212> PRT

<213> Enterobacter cloacae

<400> 6819

Lys	Lys	Arg	Ala	Ser	Val	Lys	Ala	Asp	Lys	Ser	Ser	Pro	Val	Thr	Asn
1				5					10					15	
Tyr	Thr	Ala	Ala	Ile	Ala	Phe	Phe	Asp	Lys	Glu	Ser	Ser	Met	Pro	His
			20					25					30		
Leu	His	Ser	Val	Ile	Pro	Pro	Tyr	Ile	Leu	Arg	Arg	Ile	Ile	Glu	Ser
		35					40					45			
Gly	Ser	Glu	Pro	Gln	Gln	Arg	Cys	Ala	Arg	Gln	Thr	Leu	Thr	His	Val
	50					55					60				
Gln	Thr	Leu	Met	Ala	His	Met	Pro	Gly	Lys	Pro	Ala	Ala	Pro	His	Val
65					70					75				80	
Asn	Lys	Ala	Gly	Gln	Leu	Glu	Arg	Asp	Ile	Tyr	Asp	Ala	Lys	Gln	Thr
				85					90					95	
Gln	Glu	Leu	Pro	Gly	Ser	Gln	Val	Arg	Tyr	Glu	Gly	Gln	Pro	Ser	Asn
			100					105					110		
Gly	Asp	Val	Ala	Val	Asp	Glu	Ala	Tyr	Asp	Tyr	Leu	Gly	Ile	Thr	His
	115						120					125			
Asp	Phe	Phe	Trp	Lys	Glu	Tyr	Gln	Arg	Asp	Ser	Leu	Asp	Asn	Lys	Gly
	130					135					140				
Leu	Ile	Leu	Thr	Gly	Thr	Val	His	Tyr	Gly	Arg	Glu	Tyr	Gln	Asn	Ala
145					150					155				160	
Phe	Trp	Asn	Gly	Gln	Gln	Met	Val	Phe	Gly	Asp	Gly	Asp	Gly	Glu	Ile
				165					170					175	
Phe	Asn	Arg	Phe	Thr	Ile	Ala	Ile	Asp	Val	Val	Ala	His	Glu	Leu	Ser
			180					185					190		
His	Gly	Val	Thr	Glu	Thr	Glu	Ala	Gly	Leu	Ile	Tyr	Phe	Glu	Gln	Ser
	195						200					205			
Gly	Ala	Leu	Asn	Glu	Ser	Leu	Ser	Asp	Val	Phe	Gly	Ser	Leu	Val	Lys
	210					215					220				
Gln	Tyr	Tyr	Leu	Lys	Gln	Thr	Ala	Asp	Gln	Ala	Asp	Trp	Leu	Ile	Gly
225					230					235				240	
Glu	Gly	Leu	Leu	Ala	Ala	Gly	Ile	Asn	Gly	Lys	Gly	Leu	Arg	Ser	Met
			245						250					255	
Ser	Glu	Pro	Gly	Thr	Ala	Tyr	Asp	Asp	Pro	Leu	Leu	Gly	Lys	Asp	Pro
			260				265						270		
Gln	Pro	Ala	His	Met	Lys	Asp	Phe	Ile	Lys	Thr	Arg	Glu	Asp	Asn	Gly
	275						280					285			
Gly	Val	His	Leu	Asn	Ser	Gly	Ile	Pro	Asn	Arg	Ala	Phe	Tyr	Leu	Ala
	290					295					300				
Ala	Thr	Ala	Ile	Gly	Gly	Tyr	Ala	Trp	Glu	Lys	Ala	Gly	Tyr	Ala	Trp
305					310					315				320	
Tyr	Asp	Thr	Val	Cys	Asp	Arg	Asn	Leu	Ala	Gln	Asp	Ala	Asp	Phe	Asp
			325						330					335	
Ala	Phe	Ala	Lys	Leu	Thr	Ile	Ala	His	Gly	Glu	Lys	Arg	Ser	Gly	Ser
			340				345						350		
Asp	Val	Gly	Ala	Ala	Ile	Lys	Gln	Ala	Trp	Glu	Gln	Val	Gly	Val	Leu

355

360

365

<210> 6820
 <211> 145
 <212> PRT
 <213> Enterobacter cloacae

<400> 6820

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Asn Phe Ala Arg Val His Phe Ile Ser Ala Leu His Gly Ser Gly Val
1          5          10          15
Gly Asn Leu Phe Glu Ser Val Arg Glu Ala Tyr Asp Ser Ser Thr Arg
          20          25          30
Arg Gln Ser Thr Ala Met Leu Thr Arg Ile Met Asn Met Ala Ala Glu
          35          40          45
Asp His Gln Pro Pro Leu Val Arg Gly Arg Arg Val Lys Leu Lys Tyr
          50          55          60
Ala His Ala Gly Gly Tyr Asn Pro Pro Ile Val Ile His Gly Asn
65          70          75          80
Gln Val Lys Asp Leu Pro Asp Ser Tyr Lys Arg Tyr Leu Met Asn Tyr
          85          90          95
Phe Arg Lys Ser Leu Asp Val Met Gly Thr Pro Ile Arg Ile Gln Phe
          100          105          110
Lys Glu Gly Glu Asn Pro Phe Ala Asn Lys Arg Asn Thr Leu Thr Pro
          115          120          125
Asn Gln Met Arg Lys Arg Lys Arg Leu Ile Lys His Ile Lys Lys Ser
          130          135          140
Lys
145

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<210> 6821
 <211> 533
 <212> PRT
 <213> Enterobacter cloacae

<400> 6821

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Pro Phe Gly Val His Ala Gly Val Tyr Lys His Asp Thr Tyr Leu Phe
1          5          10          15
Gly Arg Ile Met Gln Ser Ser Val Asn Gln Lys Glu Ser Arg Thr Phe
          20          25          30
Phe Gly His Pro Tyr Pro Leu Gly Ser Leu Phe Phe Thr Glu Met Trp
          35          40          45
Glu Arg Phe Ser Phe Tyr Gly Ile Arg Pro Leu Leu Ile Leu Phe Met
          50          55          60
Ala Ala Thr Val Tyr Asp Gly Gly Met Gly Leu Ala Arg Glu Asn Ala
65          70          75          80
Ser Ala Ile Val Gly Ile Phe Ala Gly Thr Met Tyr Leu Ala Ala Leu
          85          90          95
Pro Gly Gly Trp Leu Ala Asp Asn Trp Leu Gly Gln Gln Arg Ala Val
          100          105          110
Trp Tyr Gly Ser Ile Leu Ile Ala Leu Gly His Leu Ser Ile Ala Leu
          115          120          125
Ser Ala Ile Met Gly Asp Asn Leu Phe Phe Ile Gly Leu Met Phe Ile
          130          135          140
Val Leu Gly Ser Gly Leu Phe Lys Thr Cys Ile Ser Val Met Val Gly
145          150          155          160
Thr Leu Tyr Lys Lys Gly Asp Ala Arg Arg Asp Gly Gly Phe Ser Leu
          165          170          175
Phe Tyr Met Gly Ile Asn Met Gly Ser Phe Ile Ala Pro Leu Ile Ser
          180          185          190

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Gly Trp Leu Ile Lys Thr His Gly Trp His Trp Gly Phe Gly Ile Gly
 195 200 205
 Gly Ile Gly Met Leu Val Ala Leu Ile Ile Phe Arg Val Phe Ala Val
 210 215 220
 Pro Ala Met Lys Arg Tyr Asp Ser Glu Val Gly Leu Asp Ser Thr Trp
 225 230 235 240
 Asn Ser Pro Val Val Lys Arg Asn Gly Val Gly Ala Trp Leu Leu Ala
 245 250 255
 Leu Ala Val Gly Val Ala Ile Ile Val Thr Leu Ile Ala Gln Gly Val
 260 265 270
 Ile Val Ile Asn Pro Val Ala Val Ala Ser Val Leu Val Tyr Val Ile
 275 280 285
 Ala Ala Ser Val Ala Leu Tyr Phe Ile Tyr Leu Phe Ile Phe Ala Gly
 290 295 300
 Leu Asn Arg Lys Glu Arg Ala Arg Leu Leu Val Cys Phe Ile Leu Leu
 305 310 315 320
 Val Ser Ala Ala Phe Phe Trp Ser Ala Phe Glu Gln Lys Pro Thr Ser
 325 330 335
 Phe Asn Leu Phe Ala Asn Asp Tyr Thr Asn Arg Met Ile Gly Asp Phe
 340 345 350
 Glu Ile Pro Ala Val Trp Phe Gln Ser Ile Asn Ala Leu Phe Ile Ile
 355 360 365
 Leu Leu Ala Pro Val Phe Ser Trp Ala Trp Pro Lys Leu Ala Ser Lys
 370 375 380
 Asn Ile Arg Pro Ser Ser Ile Thr Lys Phe Val Ile Gly Ile Leu Cys
 385 390 395 400
 Ala Ala Ala Gly Phe Gly Leu Met Met Leu Ala Ala Gln Asn Val Leu
 405 410 415
 Ser Asn Gly Gly Ala Gly Val Ser Pro Phe Trp Leu Val Gly Ser Ile
 420 425 430
 Leu Met Leu Thr Leu Gly Glu Leu Cys Leu Ser Pro Ile Gly Leu Ala
 435 440 445
 Thr Met Thr Leu Leu Ala Pro Glu Arg Met Arg Gly Gln Met Met Gly
 450 455 460
 Leu Trp Phe Cys Ala Ser Ala Leu Gly Asn Leu Ala Ala Gly Leu Ile
 465 470 475 480
 Gly Gly His Val Lys Ala Asp Gln Leu Asp Met Leu Pro Asp Leu Phe
 485 490 495
 Ala Arg Cys Ser Ile Ala Leu Leu Ile Cys Ala Ala Val Leu Ile Val
 500 505 510
 Leu Ile Val Pro Val Arg Arg Met Leu Glu Asn Ala Gln Thr Lys Pro
 515 520 525
 Ala Thr Glu Ala
 530

<210> 6822

<211> 497

<212> PRT

<213> Enterobacter cloacae

<400> 6822

Pro Pro Arg Ser Glu Ile Leu Pro Met Leu Arg Ile Ala Lys Glu Ala
 1 5 10 15
 Leu Thr Phe Asp Asp Val Leu Leu Val Pro Ala His Ser Thr Val Leu
 20 25 30
 Pro Asn Thr Ala Asp Leu Ser Thr Gln Leu Thr Lys Thr Ile Arg Leu
 35 40 45
 Asn Ile Pro Met Leu Ser Ala Ala Met Asp Thr Val Thr Glu Ala Arg
 50 55 60
 Leu Ala Ile Ala Leu Ala Gln Glu Gly Gly Ile Gly Phe Ile His Lys
 65 70 75 80

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Asn Met Ser Ile Glu Arg Gln Ala Glu Glu Val Arg Arg Val Lys Lys
      85      90      95
His Glu Ser Gly Ile Val Ser Asp Pro Gln Thr Val Leu Pro Thr Thr
      100      105      110
Thr Leu His Glu Val Lys Ala Leu Thr Glu Arg Asn Gly Phe Ala Gly
      115      120      125
Tyr Pro Val Val Thr Glu Asp Asn Glu Leu Val Gly Ile Ile Thr Gly
      130      135      140
Arg Asp Val Arg Phe Val Thr Asp Leu Asn Gln Pro Val Ser Val Tyr
      145      150      155      160
Met Thr Pro Lys Glu Arg Leu Val Thr Val Arg Glu Gly Glu Thr Arg
      165      170      175
Asp Val Val Leu Ala Lys Met His Glu Lys Arg Val Glu Lys Ala Leu
      180      185      190
Val Val Asp Ala Asn Phe His Leu Arg Gly Met Ile Thr Val Lys Asp
      195      200      205
Phe Gln Lys Ala Glu Arg Lys Pro Asn Ala Cys Lys Asp Glu His Gly
      210      215      220
Arg Leu Arg Val Gly Ala Ala Val Gly Ala Gly Ala Gly Asn Glu Gln
      225      230      235      240
Arg Val Asp Ala Leu Val Ala Ala Gly Val Asp Val Leu Leu Ile Asp
      245      250      255
Ser Ser His Gly His Ser Glu Gly Val Leu Gln Arg Ile Arg Glu Thr
      260      265      270
Arg Ala Lys Tyr Pro Asp Leu Gln Ile Ile Gly Gly Asn Val Ala Thr
      275      280      285
Gly Ala Gly Ala Arg Ala Leu Ala Glu Ala Gly Cys Ser Ala Val Lys
      290      295      300
Val Gly Ile Gly Pro Gly Ser Ile Cys Thr Thr Arg Ile Val Thr Gly
      305      310      315      320
Val Gly Val Pro Gln Ile Thr Ala Val Ser Asp Ala Val Glu Ala Leu
      325      330      335
Glu Gly Thr Gly Ile Pro Val Ile Ala Asp Gly Gly Ile Arg Phe Ser
      340      345      350
Gly Asp Ile Ala Lys Ala Ile Ala Ala Gly Ala Ala Val Met Val
      355      360      365
Gly Ser Met Leu Ala Gly Thr Glu Glu Ser Pro Gly Glu Ile Glu Leu
      370      375      380
Tyr Gln Gly Arg Ser Tyr Lys Ser Tyr Arg Gly Met Gly Ser Leu Gly
      385      390      395      400
Ala Met Ser Lys Gly Ser Ser Asp Arg Tyr Phe Gln Thr Asp Asn Ala
      405      410      415
Ala Asp Lys Leu Val Pro Glu Gly Ile Glu Gly Arg Val Ala Tyr Lys
      420      425      430
Gly Arg Leu Lys Glu Ile Ile His Gln Gln Met Gly Gly Leu Arg Ser
      435      440      445
Cys Met Gly Leu Thr Gly Cys Gly Thr Ile Asp Leu Leu Arg Thr Lys
      450      455      460
Ala Glu Phe Val Arg Ile Ser Gly Ala Gly Ile Gln Glu Ser His Val
      465      470      475      480
His Asp Val Thr Ile Thr Lys Glu Ser Pro Asn Tyr Arg Leu Gly Ser
      485      490      495

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<210> 6823

<211> 116

<212> PRT

<213> Enterobacter cloacae

<400> 6823

Ser Ser Ser Leu Phe Arg Tyr Val Ala Cys Trp Lys Met Arg Lys Leu
 1 5 10 15
 Asn Arg Leu Pro Lys Pro Asp Thr Ile Gln Ser Ala Gly Ala Val Val
 20 25 30
 Leu Ser Arg Pro Asn Ser Thr Gly Glu Ser Met Ser Ile Thr Cys Pro
 35 40 45
 Asp Cys His Ala Ala Leu Glu Pro Gln Asn Gly Ile Ala His Cys Asp
 50 55 60
 Ser Cys Asn Lys Asp Ile Pro Leu Glu Ala Arg Cys Pro Asp Cys His
 65 70 75 80
 Gln Pro Leu Gln Val Leu Lys Ala Cys Gly Ala Val Asp Tyr Phe Cys
 85 90 95
 Gln Asn Gly His Gly Leu Ile Ser Lys Lys Arg Val Glu Phe Val Arg
 100 105 110
 Ala Gly Ala
 115

<210> 6824

<211> 562

<212> PRT

<213> Enterobacter cloacae

<400> 6824

Arg Ser Pro Lys Ser Pro Arg Thr Thr Val Trp Ala Pro Asp Lys Phe
 1 5 10 15
 Pro Arg Pro Ala Gln Cys Arg Ala Leu Cys Phe Val Ser Leu Ala Ser
 20 25 30
 Glu Leu Ala Ser Met Thr Glu Asn Ile His Lys His Arg Ile Leu Ile
 35 40 45
 Leu Asp Phe Gly Ser Gln Tyr Thr Gln Leu Val Ala Arg Arg Val Arg
 50 55 60
 Glu Leu Gly Val Tyr Cys Glu Leu Trp Ala Trp Asp Val Thr Glu Ala
 65 70 75 80
 Gln Ile Arg Glu Phe Asn Pro Ser Gly Ile Ile Leu Ser Gly Gly Pro
 85 90 95
 Glu Ser Thr Thr Glu Glu Asn Ser Pro Arg Ala Pro Gln Tyr Val Phe
 100 105 110
 Glu Ala Gly Val Pro Val Phe Gly Val Cys Tyr Gly Met Gln Thr Met
 115 120 125
 Ala Met Gln Leu Gly Gly His Val Glu Gly Ser Asn Glu Arg Glu Phe
 130 135 140
 Gly Tyr Ala Gln Val Glu Val Val Thr Asp Ser Ala Leu Val Arg Gly
 145 150 155 160
 Ile Glu Asp Ser Leu Thr Ala Asp Gly Lys Pro Leu Leu Asp Val Trp
 165 170 175
 Met Ser His Gly Asp Lys Val Thr Ala Ile Pro Ser Asp Phe Val Thr
 180 185 190
 Val Ala Ser Thr Glu Ser Cys Pro Phe Ala Ile Met Ala Asn Glu Glu
 195 200 205
 Lys Arg Phe Tyr Gly Val Gln Phe His Pro Glu Val Thr His Thr Arg
 210 215 220
 Gln Gly Met Arg Met Leu Glu Arg Phe Val Arg Asp Ile Cys Gln Cys
 225 230 235 240
 Glu Ala Leu Trp Thr Pro Ala Lys Ile Ile Asp Asp Ala Val Glu Arg
 245 250 255
 Ile Arg Gln Gln Val Gly Asp Asp Lys Val Ile Leu Gly Leu Ser Gly
 260 265 270
 Gly Val Asp Ser Ser Val Thr Ala Met Leu Leu His Arg Ala Ile Gly
 275 280 285
 Lys Asn Leu Thr Cys Val Phe Val Asp Asn Gly Leu Leu Arg Leu Asn
 290 295 300

Glu Ala Lys Gln Val Met Asp Met Phe Gly Asp His Phe Gly Leu Asn
 305 310 315 320
 Ile Val His Val Glu Gly Glu Gln Arg Phe Leu Asp Ala Leu Lys Gly
 325 330 335
 Glu Asn Asp Pro Glu Ala Lys Arg Lys Ile Ile Gly Arg Val Phe Val
 340 345 350
 Glu Val Phe Asp Glu Glu Ala Leu Lys Leu Glu Asp Val Lys Trp Leu
 355 360 365
 Ala Gln Gly Thr Ile Tyr Pro Asp Val Ile Glu Ser Ala Ala Ser Ala
 370 375 380
 Thr Gly Lys Ala His Val Ile Lys Ser His His Asn Val Gly Gly Leu
 385 390 395 400
 Pro Lys Glu Met Lys Met Gly Leu Val Glu Pro Leu Arg Glu Leu Phe
 405 410 415
 Lys Asp Glu Val Arg Lys Ile Gly Leu Glu Leu Gly Leu Pro Tyr Asp
 420 425 430
 Met Leu Tyr Arg His Pro Phe Pro Gly Pro Gly Leu Gly Val Arg Val
 435 440 445
 Leu Gly Glu Val Lys Lys Glu Tyr Cys Asp Leu Leu Arg Arg Ala Asp
 450 455 460
 Ala Ile Phe Ile Glu Glu Leu His Lys Ala Asp Leu Tyr Asn Lys Val
 465 470 475 480
 Ser Gln Ala Phe Thr Val Phe Leu Pro Val Arg Ser Val Gly Val Met
 485 490 495
 Gly Asp Gly Arg Lys Tyr Asp Trp Val Val Ser Leu Arg Ala Val Glu
 500 505 510
 Thr Ile Asp Phe Met Thr Ala His Trp Ala His Leu Pro Tyr Asp Phe
 515 520 525
 Leu Gly Arg Val Ser Asn Arg Ile Ile Asn Glu Val Asn Gly Ile Ser
 530 535 540
 Arg Val Val Tyr Asp Ile Ser Gly Lys Pro Pro Ala Thr Ile Glu Trp
 545 550 555 560
 Glu

<210> 6825

<211> 170

<212> PRT

<213> Enterobacter cloacae

<400> 6825

Thr Tyr Ser Ala Asp Leu Pro Ser Tyr Phe Cys Met Gly Cys Val Val
 1 5 10 15
 Glu Met Phe Ala Leu Thr Tyr Thr Leu Lys Lys Thr Arg Arg His Ser
 20 25 30
 Met Lys Glu Asn Asp Ile Val Glu Ile Leu Thr Thr Thr Arg Ser Ile
 35 40 45
 Ala Leu Val Gly Ala Ser Asp Lys Pro Asp Arg Pro Ser Tyr Arg Val
 50 55 60
 Met Lys Tyr Leu Leu Asp Gln Gly Tyr His Val Ile Pro Val Ser Pro
 65 70 75 80
 Lys Val Ala Gly Lys Thr Leu Leu Gly Gln Gln Gly Tyr Ala Thr Leu
 85 90 95
 Ala Asp Val Pro Glu Lys Val Asp Met Val Asp Val Phe Arg Asn Ser
 100 105 110
 Glu Ala Ala Trp Gly Val Ala Gln Glu Ala Ile Ala Ile Gly Ala Lys
 115 120 125
 Thr Leu Trp Met Gln Leu Gly Val Ile Asn Glu Gln Ala Ala Val Leu
 130 135 140
 Ala Arg Asp Ala Gly Leu Lys Val Val Met Asp Arg Cys Pro Ala Ile
 145 150 155 160

Asp Ile Pro Arg Leu Gly Leu Ala Lys
165 170

<210> 6826

<211> 234

<212> PRT

<213> Enterobacter cloacae

<400> 6826

Val	Ala	Tyr	Phe	Pro	Ala	Asn	Gly	Ser	Val	Ser	Lys	Lys	Tyr	Arg	Gly
1				5					10					15	
Tyr	Cys	Met	Ile	Phe	Asn	Gly	Ile	Ile	Met	Lys	Lys	Ile	Ser	Tyr	Glu
			20					25					30		
Arg	Ile	Tyr	Gln	Ser	Gln	Glu	Tyr	Leu	Ser	Pro	Leu	Gly	Glu	Ile	His
			35				40					45			
His	Arg	Ala	Leu	Phe	Gly	Gly	Tyr	Thr	Leu	Ala	Val	Asp	Glu	Ala	Val
			50			55					60				
Phe	Ala	Met	Val	Ser	Asp	Gly	Glu	Leu	Tyr	Leu	Arg	Ala	Cys	Glu	Gln
65					70				75					80	
Ser	Ala	Lys	Tyr	Cys	Val	Lys	Asn	Ala	Ser	Ser	Phe	Leu	Thr	Leu	Met
				85					90					95	
Lys	Arg	Gly	Arg	Pro	Val	Leu	Leu	Asn	Tyr	Tyr	Arg	Val	Asp	Glu	Gly
			100					105					110		
Leu	Trp	Gln	Asn	Arg	Glu	Lys	Leu	Leu	Gln	Leu	Ser	Ser	Phe	Ala	Leu
			115				120					125			
Asp	Ala	Ala	Arg	Lys	Glu	Arg	Tyr	Gln	Arg	His	Gln	Arg	Asn	Arg	Leu
			130			135					140				
Lys	Asp	Leu	Pro	Asn	Leu	Thr	Phe	Gln	Ile	Glu	Val	Leu	Leu	Met	Glu
145					150					155					160
Ala	Gly	Ile	Thr	Asn	Glu	Glu	Thr	Leu	Arg	Gln	Leu	Gly	Ala	Lys	Thr
				165				170						175	
Ser	Trp	Leu	Lys	Met	Arg	Ser	Lys	Asn	Lys	Ala	Leu	Ser	Ile	Arg	Val
			180				185						190		
Leu	Phe	Ala	Leu	Glu	Gly	Ala	Ile	Glu	Gly	Leu	His	Glu	Ala	Ala	Leu
			195			200						205			
Pro	Ala	Asp	Ile	Arg	Arg	Glu	Leu	Thr	Glu	Trp	Phe	Asn	Ala	Leu	Pro
			210			215					220				
Glu	Ser	Gln	Gly	His	His	Ser	Ala	Arg							
225					230										

<210> 6827

<211> 692

<212> PRT

<213> Enterobacter cloacae

<400> 6827

Pro	Arg	Gly	Ser	Arg	Gln	Asp	Met	Glu	Leu	Lys	Ala	Thr	Ser	Met	Gly
1				5					10					15	
Lys	Arg	Leu	Ala	Gln	His	Pro	Tyr	Asp	Lys	Val	Val	Leu	Leu	Asn	Ala
			20					25					30		
Gly	Val	Lys	Val	Ser	Gly	Glu	Arg	His	Glu	Tyr	Leu	Ile	Pro	Phe	Asn
			35				40					45			
Gln	Leu	Leu	Ala	Ile	His	Cys	Lys	Arg	Gly	Leu	Val	Trp	Gly	Glu	Leu
			50			55					60				
Glu	Phe	Val	Leu	Pro	Ala	Asp	Lys	Val	Val	Arg	Leu	His	Gly	Thr	Glu
65					70				75						80
Trp	Ala	Glu	Thr	Gln	Arg	Phe	His	Tyr	His	Leu	Asn	Thr	Arg	Trp	Gln
				85				90						95	
Gln	Trp	Ser	Gln	Glu	Met	Ser	Val	Ile	Ala	Ala	Gln	Val	Leu	Gln	Gln
			100				105						110		
Val	Leu	Asp	Asp	Ile	Ala	Leu	Ser	Asn	Thr	Gln	Gln	Lys	Trp	Leu	Thr

		115					120					125				
Arg	Gln	Gln	Thr	Ala	Gly	Leu	Gln	His	Lys	Ile	Ala	Gln	Ala	Leu	Thr	
	130					135					140					
Ala	Leu	Pro	Leu	Pro	Val	Ala	Arg	Leu	Glu	Glu	Phe	Asp	Asn	Cys	Arg	
145					150					155				160		
Asp	Ala	Trp	Arg	Lys	Cys	Gln	Ala	Trp	Leu	Asn	Asp	Ile	Glu	Lys	Ser	
				165					170					175		
Arg	Leu	Ala	His	Asn	Gln	Ala	Trp	Thr	Glu	Ala	Met	Leu	Thr	Gln	Tyr	
			180					185					190			
Ala	Asp	Phe	Phe	Ser	Thr	Val	Glu	Ser	Ser	Pro	Leu	Asn	Pro	Ala	Gln	
		195					200					205				
Ala	Arg	Ala	Val	Val	Asn	Gly	Glu	Gln	Ser	Leu	Leu	Val	Leu	Ala	Gly	
	210					215					220					
Ala	Gly	Ser	Gly	Lys	Thr	Ser	Val	Leu	Val	Ala	Arg	Ala	Gly	Trp	Leu	
225					230					235					240	
Leu	Thr	Thr	Gly	Glu	Ala	Val	Ala	Asp	Gln	Ile	Leu	Leu	Leu	Ala	Phe	
				245					250					255		
Gly	Arg	Lys	Ala	Ala	Gln	Glu	Met	Asp	Glu	Arg	Ile	Gln	Ala	Arg	Leu	
			260					265					270			
His	Thr	Gln	Asp	Ile	Ser	Ala	Arg	Thr	Phe	His	Ser	Leu	Ala	Leu	His	
		275					280					285				
Ile	Ile	Gln	Gln	Gly	Ser	Lys	Lys	Val	Pro	Val	Val	Ser	Lys	Leu	Glu	
	290					295					300					
Asn	Asp	Ala	Gln	Ala	Arg	Gln	Thr	Leu	Phe	Ile	Lys	Ala	Trp	Arg	Gln	
305					310					315					320	
Gln	Cys	Ser	Glu	Lys	Lys	Ala	Gln	Ala	Lys	Gly	Trp	Arg	Gln	Trp	Leu	
				325					330					335		
Glu	Glu	Glu	Leu	Asn	Trp	Glu	Val	Pro	Glu	Gly	Ser	Phe	Trp	Gln	Asp	
			340					345					350			
Glu	Lys	Leu	Ala	Arg	Arg	Leu	Gly	Ser	Arg	Leu	Asp	Arg	Trp	Val	Ser	
		355					360					365				
Leu	Met	Arg	Met	His	Gly	Gly	Ser	Gln	Ala	Glu	Met	Ile	Glu	Ser	Ala	
	370				375						380					
Pro	Glu	Ser	Ile	Arg	Ala	Val	Phe	Ser	Lys	Arg	Val	Lys	Leu	Met	Ala	
385					390					395					400	
Pro	Met	Leu	Lys	Ala	Trp	Lys	Thr	Ala	Leu	Lys	Asp	Glu	Asn	Ala	Val	
				405					410					415		
Asp	Phe	Ser	Gly	Leu	Ile	His	Gln	Ala	Ile	Ile	Ile	Leu	Glu	Lys	Gly	
			420					425					430			
Arg	Phe	Val	Ser	Pro	Trp	Lys	His	Ile	Leu	Val	Asp	Glu	Phe	Gln	Asp	
		435					440					445				
Ile	Ser	Pro	Gln	Arg	Ala	Ala	Leu	Leu	Ser	Ala	Leu	Arg	Ala	Gln	Asn	
		450				455					460					
Lys	His	Thr	Ser	Leu	Phe	Ala	Val	Gly	Asp	Asp	Trp	Gln	Ala	Ile	Tyr	
465					47											

Ala Asp Tyr Val Ile Val Val Gly Leu Lys Glu Gly Ser Asp Gly Phe
 610 615 620
 Pro Ala Pro Ala Arg Glu Ser Val Met Glu Glu Ala Leu Leu Pro Val
 625 630 635 640
 Pro Glu Asp Phe Pro Asp Ala Glu Glu Arg Arg Leu Leu Tyr Val Ala
 645 650 655
 Ile Thr Arg Ala Arg His Arg Val Trp Leu Leu Phe Asn Lys Glu Glu
 660 665 670
 Pro Ser Val Phe Val Asp Ile Leu Lys Ser Ile Asp Val Pro Val Ala
 675 680 685
 Arg Lys Pro
 690

<210> 6828

<211> 253

<212> PRT

<213> Enterobacter cloacae

<400> 6828

Gly Gln Ile Gly Arg Ile Cys Leu Tyr Val Ser Lys Arg Val Tyr Arg
 1 5 10 15
 Lys Ile Leu Ile His Ser Tyr Arg Val Val Cys Leu Gln Glu Ser Ala
 20 25 30
 Met Lys Thr Gly Ile Ala Trp Ala Val Val Ala Leu Ile Met Pro Val
 35 40 45
 Cys Val Phe Ala Thr Thr Leu Arg Leu Thr Thr Asp Ile Asp Leu Leu
 50 55 60
 Val Leu Asp Gly Lys Lys Val Ser Ser Ser Leu Arg Gly Ala Asp
 65 70 75 80
 Ser Ile Glu Leu Asp Asn Gly Pro His Gln Leu Val Phe Arg Val Glu
 85 90 95
 Lys Thr Ile Arg Leu Ala Asp Asp Glu Gln Gln Val Tyr Ile Ser Pro
 100 105 110
 Pro Leu Val Val Ser Phe Asn Thr Gln Arg Ile Ser Gln Val Asn Phe
 115 120 125
 Arg Leu Pro Arg Leu Glu Thr Glu Lys Glu Ser Leu Ala Phe Asp Ala
 130 135 140
 Ser Pro Arg Ile Glu Leu Val Asp Gly Asp Ser Met Pro Ile Pro Val
 145 150 155 160
 Lys Leu Asp Ile Leu Ala Leu Thr Lys Arg Pro Lys Gly Thr Asp Tyr
 165 170 175
 Glu Ala Asp Thr Glu Thr Tyr Asn Arg Ala Ser Arg Arg Ala Ser Leu
 180 185 190
 Pro Gln Phe Ala Thr Met Met Ala Asp Asp Ser Thr Leu Leu Ser Gly
 195 200 205
 Val Ser Glu Leu Asp Val Leu Pro Pro Gln Ser Gln Thr Leu Thr Glu
 210 215 220
 Gln Arg Leu Lys Phe Trp Phe Gln Asn Ala Asp Pro Asp Thr Arg Ala
 225 230 235 240
 Arg Phe Leu Gln Trp Ala Lys Gln Gln Pro Ser Ser
 245 250

<210> 6829

<211> 85

<212> PRT

<213> Enterobacter cloacae

<400> 6829

Cys Val Lys Arg Gly Ser Gly Thr Cys Ala Pro Arg Tyr Pro Gly Tyr
 1 5 10 15
 Ala Asn Ala Pro Glu Cys Ala His Pro Ser Pro Ala Pro Pro Cys Asp

	20		25		30
Gln Arg Pro	Ala Ala Lys Ser	Gly Arg Gln Pro	Pro Arg Pro	Leu Ser	
	35	40	45		
Glu Ala Ser	Pro Arg Val Pro	Pro Ala Pro Thr	Phe Cys Arg	Ser Arg	
	50	55	60		
Arg Leu Pro	Ala Leu Lys Glu	Thr Ala Arg His	Ser Pro Arg	Arg Ala	
65	70	75		80	
Pro Gly Gln	Asp				
	85				

<210> 6830

<211> 399

<212> PRT

<213> Enterobacter cloacae

<400> 6830

Gln Ile Met	Ser Val Arg	Leu Val Leu	Ala Lys Gly	Arg Glu Lys	Ser
1	5	10	15		
Leu Leu Arg	Arg His Pro	Trp Val Phe	Ser Gly Ala	Val Ala Arg	Met
	20	25	30		
Glu Gly Lys	Ala Ser Leu	Gly Glu Thr	Ile Asp Ile	Val Asp His	Gln
	35	40	45		
Gly Lys Trp	Leu Ala Arg	Gly Ala Tyr	Ser Pro Ala	Ser Gln Ile	Arg
	50	55	60		
Ala Arg Val	Trp Thr Phe	Asp Lys Glu	Glu Ala Ile	Asp Ile Asp	Phe
65	70	75		80	
Phe Val Arg	Arg Leu Gln	Gln Ala Gln	Gln Trp Arg	Glu Trp Leu	Ala
	85	90	95		
Lys Arg Asp	Gly Leu Asp	Ser Tyr Arg	Leu Ile Ala	Gly Glu Ser	Asp
	100	105	110		
Gly Leu Pro	Gly Val Thr	Ile Asp Arg	Phe Gly Asn	Phe Leu Val	Leu
	115	120	125		
Gln Leu Leu	Ser Ala Gly	Ala Glu Tyr	Gln Arg Ala	Ala Leu Ile	Ser
	130	135	140		
Ala Leu Gln	Thr Leu Phe	Pro Glu Cys	Ala Ile Tyr	Asp Arg Ser	Asp
145	150	155		160	
Val Ala Val	Arg Lys Glu	Gly Met Glu	Leu Thr Gln	Gly Pro Val	
	165	170	175		
Thr Gly Glu	Leu Pro Pro	Ala Leu Leu	Pro Ile Glu	Glu His Gly	Met
	180	185	190		
Lys Leu Leu	Val Asp Ile	Gln Gly Gly	His Lys Thr	Gly Tyr Tyr	Leu
	195	200	205		
Asp Gln Arg	Asp Ser Arg	Leu Ala Thr	Arg Gln Tyr	Val Ala Asp	Arg
	210	215	220		
Arg Val Leu	Asn Cys Phe	Ser Tyr Thr	Gly Gly Phe	Ala Val Ser	Ala
225	230	235		240	
Leu Met Gly	Gly Cys Ala	Gln Val Val	Ser Val Asp	Thr Ser Gln	Glu
	245	250	255		
Ala Leu Asp	Val Ala Lys	Gln Asn Val	Glu Leu Asn	Lys Leu Asp	Leu
	260	265	270		
Ser Lys Ala	Glu Phe Val	Arg Asp Asp	Val Phe Lys	Leu Leu Arg	Lys
	275	280	285		
Tyr Arg Asp	Gln Gly Glu	Lys Phe Asp	Val Ile Val	Met Asp Pro	Pro
	290	295	300		
Lys Phe Val	Glu Asn Lys	Ser Gln Leu	Met Gly Ala	Cys Arg Gly	Tyr
305	310	315		320	
Lys Asp Ile	Asn Met Leu	Ala Ile Gln	Leu Leu Asn	Pro Gly Gly	Val
	325	330	335		
Leu Leu Thr	Phe Ser Cys	Ser Gly Leu	Met Thr Thr	Asp Leu Phe	Gln
	340	345	350		
Lys Ile Ile	Ala Asp Ala	Ala Ile Asp	Ala Gly Arg	Asp Val Gln	Phe

355 360 365
 Ile Glu Gln Phe Arg Gln Ala Asp His Pro Val Ile Ala Thr Tyr
 370 375 380
 Pro Glu Gly Leu Tyr Leu Lys Gly Phe Ala Cys Arg Val Met
 385 390 395

<210> 6831
 <211> 116
 <212> PRT
 <213> Enterobacter cloacae

<400> 6831
 Cys Val Cys Asn Val Ser Arg Glu Val Thr Met Ile Ala Ser Lys Phe
 1 5 10 15
 Gly Ile Gly Gln Gln Val Arg His Thr Leu Leu Gly Tyr Leu Gly Val
 20 25 30
 Val Val Asp Ile Asp Pro Glu Tyr Ser Leu Asp Glu Pro Ser Ala Asp
 35 40 45
 Asp Leu Ala Val Asp Ala Glu Leu Arg Ala Ala Pro Trp Tyr His Val
 50 55 60
 Val Met Glu Gly Asp Asp Gly Gln Pro Val His Thr Tyr Leu Ala Glu
 65 70 75 80
 Ala Gln Leu Ser Gly Glu Leu Gln Asp Glu His Pro Glu Gln Pro Thr
 85 90 95
 Met Asp Glu Leu Ala Gln Thr Ile Arg Lys Gln Leu Gln Ala Pro Arg
 100 105 110
 Leu Arg Asn
 115

<210> 6832
 <211> 151
 <212> PRT
 <213> Enterobacter cloacae

<400> 6832
 Gly Phe Met Arg Thr Val Leu Asn Val Leu Asn Phe Val Leu Gly Gly
 1 5 10 15
 Phe Ala Thr Thr Leu Ser Trp Leu Phe Ala Thr Leu Val Ser Ile Val
 20 25 30
 Leu Ile Phe Thr Leu Pro Leu Thr Arg Ser Cys Trp Glu Ile Thr Lys
 35 40 45
 Leu Ser Leu Val Pro Tyr Gly Asn Glu Ala Val His Val Asp Glu Leu
 50 55 60
 Glu Pro Glu Arg Lys Asn Ala Leu Met Asn Thr Gly Gly Thr Leu Leu
 65 70 75 80
 Asn Ile Leu Trp Leu Ile Phe Phe Gly Trp Trp Leu Cys Leu Met His
 85 90 95
 Ile Phe Ala Gly Ile Ala Gln Cys Ile Thr Ile Ile Gly Ile Pro Val
 100 105 110
 Gly Ile Ala Asn Phe Lys Ile Ala Thr Ile Ala Leu Trp Pro Val Gly
 115 120 125
 Arg Arg Val Val Pro Val Glu Val Ala Gln Ala Ala Arg Glu Ala Asn
 130 135 140
 Ala Arg Arg Arg Phe Gln
 145 150

<210> 6833
 <211> 726
 <212> PRT
 <213> Enterobacter cloacae

<400> 6833

Gly	Leu	Ala	Ala	Leu	Met	Leu	Ser	Pro	Leu	Leu	Arg	Arg	Tyr	Thr	Trp
1				5					10					15	
Asn	Ser	Asn	Trp	Leu	Tyr	Asn	Val	Arg	Ile	Phe	Ile	Ala	Leu	Cys	Gly
			20					25					30		
Thr	Val	Ala	Leu	Pro	Trp	Trp	Leu	Asn	Asp	Val	Lys	Leu	Thr	Ile	Pro
		35					40					45			
Leu	Thr	Leu	Gly	Val	Val	Ala	Gly	Ala	Leu	Ala	Asp	Leu	Asp	Asp	Arg
50						55					60				
Leu	Ala	Gly	Arg	Leu	Arg	Asn	Leu	Val	Ile	Thr	Leu	Val	Cys	Phe	Phe
65					70					75					80
Ile	Ala	Ser	Ala	Ser	Val	Glu	Leu	Leu	Phe	Pro	Trp	Pro	Trp	Leu	Phe
				85					90					95	
Ala	Leu	Gly	Leu	Thr	Val	Ser	Thr	Ser	Gly	Phe	Ile	Leu	Leu	Gly	Gly
			100					105					110		
Leu	Gly	Gln	Arg	Tyr	Ala	Thr	Ile	Ala	Phe	Gly	Ala	Leu	Leu	Ile	Ala
		115					120					125			
Ile	Tyr	Thr	Met	Leu	Gly	Val	Ser	Leu	Tyr	Glu	Gln	Trp	Tyr	Gln	Gln
130						135					140				
Pro	Val	Leu	Leu	Met	Leu	Gly	Ala	Ile	Trp	Tyr	Asn	Leu	Leu	Thr	Leu
145				150						155					160
Thr	Gly	His	Leu	Ile	Phe	Pro	Val	Arg	Ala	Leu	Gln	Asp	Asn	Ile	Ala
			165						170					175	
Arg	Ser	Tyr	Glu	Gln	Leu	Ala	His	Tyr	Leu	Glu	Leu	Lys	Ser	Arg	Leu
			180					185					190		
Phe	Asp	Pro	Asp	Ile	Glu	Glu	Asp	Ser	Gln	Ala	Pro	Leu	Tyr	Asp	Leu
		195					200					205			
Ala	Leu	Ala	Asn	Gly	Gln	Leu	Val	Ala	Thr	Leu	Asn	Gln	Thr	Lys	Ala
		210					215					220			
Ser	Leu	Leu	Thr	Arg	Leu	Arg	Gly	Asp	Arg	Gly	Gln	Arg	Gly	Thr	Arg
225				230						235					240
Arg	Thr	Leu	His	Tyr	Tyr	Phe	Val	Ala	Gln	Asp	Ile	His	Glu	Arg	Ala
			245						250					255	
Ser	Ser	Ser	His	Val	Gln	Tyr	Ala	Asp	Leu	Arg	Glu	Lys	Phe	Arg	Tyr
			260					265					270		
Ser	Asp	Val	Met	Phe	Arg	Phe	Gln	Arg	Leu	Leu	Ser	Met	Gln	Ser	Gln
		275					280					285			
Ala	Cys	Gln	Gln	Leu	Ala	Arg	Ser	Ile	Leu	Leu	Arg	Thr	Pro	Tyr	Gln
		290				295					300				
His	Asp	Pro	Cys	Phe	Glu	Arg	Ala	Phe	Ser	His	Leu	Asp	Ala	Ala	Leu
305					310					315					320
Asp	Arg	Val	Gln	Ala	Ser	Gly	Thr	Ser	Pro	Glu	Gln	Phe	Lys	Ala	Leu
			325						330					335	
Gly	Phe	Leu	Leu	Asn	Asn	Leu	Arg	Ala	Ile	Asp	Ala	Gln	Leu	Ala	Thr
		340						345					350		
Ile	Glu	Ser	Glu	Gln	Ala	Met	Ala	Met	Pro	Gly	Asn	Asp	Ala	Asp	Asn
		355					360					365			
Gln	Leu	Ala	Asp	Asp	Ser	Leu	Asn	Gly	Phe	Ser	Asp	Met	Trp	Leu	Arg
		370				375					380				
Leu	Ser	Arg	His	Phe	Thr	Pro	Glu	Ser	Ala	Leu	Phe	Arg	His	Ala	Val
385					390					395					400
Arg	Met	Ser	Leu	Val	Leu	Cys	Val	Gly	Tyr	Ala	Phe	Ile	Gln	Ile	Thr
			405						410					415	
Gly	Leu	His	His	Gly	Tyr	Trp	Ile	Leu	Leu	Thr	Ser	Leu	Phe	Val	Cys
		420						425					430		
Gln	Pro	Asn	Tyr	Asn	Ala	Thr	Arg	His	Arg	Leu	Ala	Leu	Arg	Ile	Val
		435					440					445			
Gly	Thr	Leu	Val	Gly	Val	Ala	Ile	Gly	Leu	Pro	Val	Leu	Tyr	Phe	Val
		450				455					460				
Pro	Ser	Val	Glu	Gly	Gln	Leu	Leu	Leu	Ile	Val	Ile	Thr	Gly	Val	Leu
465					470					475					480

Phe Phe Ala Phe Arg Asn Val Gln Tyr Ala His Ala Thr Met Phe Ile
 485 490 495
 Thr Leu Leu Val Leu Leu Cys Phe Asn Leu Leu Gly Glu Gly Phe Glu
 500 505 510
 Val Ala Leu Pro Arg Val Ile Asp Thr Leu Ile Gly Cys Ala Ile Ala
 515 520 525
 Trp Ala Ala Val Ser Phe Ile Trp Pro Asp Trp Arg Phe Arg Asn Leu
 530 535 540
 Pro Arg Val Ser Asp Arg Ala Met Asn Ala Asn Cys Arg Tyr Leu Asp
 545 550 555 560
 Ala Ile Leu Glu Gln Tyr His Gln Gly Arg Asp Asn Arg Leu Ala Tyr
 565 570 575
 Arg Ile Ala Arg Arg Asp Ala His Asn Thr Asp Ala Glu Leu Ala Ser
 580 585 590
 Val Val Ser Asn Met Ser Thr Glu Pro Arg Ala Thr Ala Glu Ile Arg
 595 600 605
 Glu Thr Ala Phe Arg Leu Leu Cys Leu Asn His Thr Phe Thr Ser Tyr
 610 615 620
 Ile Ser Thr Leu Gly Ala His Arg Glu Lys Leu Thr Asn Pro Asp Ile
 625 630 635 640
 Leu Ala Leu Leu Asp Asp Ala Val Cys Tyr Val Asp Asp Ala Leu His
 645 650 655
 His Gln Pro Ala Asp Glu Pro Arg Val His Gln Ala Leu Asp Glu Leu
 660 665 670
 Val Gln Arg Ile Ala His Leu Asp Pro Gly Thr Asp Asn Lys Ala Pro
 675 680 685
 Leu Val Leu Gln Gln Ile Gly Leu Leu Ile Ala Leu Leu Pro Glu Ile
 690 695 700
 Cys Arg Leu Arg Gln Gln Ile Ala Thr Trp Arg Asn Asp Gly Pro Ala
 705 710 715 720
 Thr Gln Ala Ala His
 725

<210> 6834

<211> 161

<212> PRT

<213> Enterobacter cloacae

<400> 6834

Arg Gly Asn Leu Thr Asp Lys Ile Met Glu Leu Thr Thr Arg Thr Leu
 1 5 10 15
 Pro Ala Arg Lys His Ile Ala Leu Val Ala His Asp His Cys Lys Gln
 20 25 30
 Met Leu Leu Asn Trp Val Arg Arg His Gln Pro Leu Leu Gln His His
 35 40 45
 Ala Leu Ser Ala Thr Gly Thr Thr Gly Asn Leu Ile His Arg Glu Thr
 50 55 60
 Gly Leu Glu Val Asn Ala Met Leu Ser Gly Pro Met Gly Gly Asp Gln
 65 70 75 80
 Gln Val Gly Ala Gln Ile Ser Glu Gly Lys Ile Asp Val Leu Ile Phe
 85 90 95
 Phe Trp Asp Pro Leu Asn Ala Val Pro His Asp Pro Asp Val Lys Ala
 100 105 110
 Leu Leu Arg Leu Ala Thr Val Trp Asn Ile Pro Val Ala Thr Asn Leu
 115 120 125
 Ser Thr Ala Asp Phe Ile Ile Glu Ser Pro Gln Phe Asn Asp Pro Val
 130 135 140
 Glu Ile Leu Ile Pro Asp Tyr Gln Arg Tyr Leu Ala Glu Arg Leu Lys
 145 150 155 160

<210> 6835
 <211> 224
 <212> PRT
 <213> Enterobacter cloacae

<400> 6835
 Gly Asn Lys Met Lys Lys Arg Val Leu Val Ile Ala Ala Leu Val Ser
 1 5 10 15
 Gly Ala Leu Ala Val Ser Gly Cys Thr Thr Asn Pro Tyr Thr Gly Glu
 20 25 30
 Arg Glu Ala Gly Lys Ser Gly Ile Gly Ala Gly Ile Gly Ser Leu Val
 35 40 45
 Gly Ala Gly Val Gly Val Leu Ser Ser Ser Lys Lys Asp Arg Gly Lys
 50 55 60
 Gly Ala Leu Ile Gly Ala Ala Ala Gly Ala Ala Leu Gly Gly Gly Val
 65 70 75 80
 Gly Tyr Tyr Met Asp Val Gln Glu Ala Lys Leu Arg Asp Lys Met Lys
 85 90 95
 Gly Thr Gly Val Ser Val Thr Arg Ser Gly Asp Asn Ile Ile Leu Asn
 100 105 110
 Met Pro Asn Asn Val Thr Phe Asp Ser Ser Ser Ala Thr Leu Lys Pro
 115 120 125
 Ala Gly Ala Asn Thr Leu Thr Gly Val Ala Ala Val Leu Lys Glu Tyr
 130 135 140
 Asn Lys Thr Ala Val Asn Val Ile Gly Tyr Thr Asp Ser Thr Gly Ser
 145 150 155 160
 Gln Asp Leu Asn Met Arg Leu Ser Gln Gln Arg Ala Asp Ser Val Ala
 165 170 175
 Ser Ser Leu Ile Thr Gln Gly Val Glu Ala Asn Arg Ile Arg Thr Ser
 180 185 190
 Gly Met Gly Pro Ala Asn Pro Ile Ala Ser Asn Ser Thr Ala Glu Gly
 195 200 205
 Lys Ala Gln Asn Arg Arg Val Glu Ile Thr Leu Ser Pro Val Gln
 210 215 220

<210> 6836
 <211> 195
 <212> PRT
 <213> Enterobacter cloacae

<400> 6836
 Pro Met Gln Arg Cys Gly Trp Val Ser Gln Asp Gln Leu Tyr Ile Asp
 1 5 10 15
 Tyr His Asp Lys Glu Trp Gly Val Pro Glu Thr Asp Gly Lys Lys Leu
 20 25 30
 Phe Glu Met Ile Cys Leu Glu Gly Gln Gln Ala Gly Leu Ser Trp Ile
 35 40 45
 Thr Val Leu Lys Lys Arg Glu Asn Tyr Arg Lys Ala Phe His Gln Phe
 50 55 60
 Asp Pro Ala Ala Val Ala Ala Met Thr Asp Asp Asp Val Gln Lys Leu
 65 70 75 80
 Val Leu Asp Thr Gly Ile Ile Arg His Arg Gly Lys Ile Gln Ala Ile
 85 90 95
 Ile Gly Asn Ala Arg Ala Tyr Leu Ala Met Glu Gln Asn Gly Glu Pro
 100 105 110
 Phe Ser Ala Phe Val Trp Ser Phe Val Asp Asn Glu Pro Lys Val Thr
 115 120 125
 Gln Ala Ala Thr Leu Ala Glu Ile Pro Thr Ser Thr Pro Ala Ser Asp
 130 135 140
 Ala Leu Ser Lys Ala Leu Lys Lys Arg Gly Phe Lys Phe Val Gly Thr

145 150 155 160
 Thr Ile Cys Tyr Ser Phe Met Gln Ala Cys Gly Leu Val Asn Asp His
 165 170 175
 Ile Thr Gly Cys Phe Cys His Pro Glu Gly His His Asp Pro Gln Met
 180 185 190
 Ala Lys
 195

<210> 6837

<211> 390

<212> PRT

<213> Enterobacter cloacae

<400> 6837

Lys Gln Asn Gly Asn Pro Val Ala Val Leu Val Phe Ala Pro Ser Pro
 1 5 10 15
 Val Gly Glu Gly Trp Gly Glu Gly Ile Arg Pro Pro Pro Gly Lys Leu
 20 25 30
 Leu Asp Ser Pro Asp Phe Pro Ala Lys Val Phe Ser Leu Asn Ser Gly
 35 40 45
 Lys Ser Ala Met Ile Lys Pro Thr Arg Ala Thr Ile Ser Asp Val Ala
 50 55 60
 Lys Ala Ala Lys Thr Gly Lys Thr Ser Ile Ser Arg Tyr Leu Asn Gly
 65 70 75 80
 Glu Lys His Leu Leu Ser Asp Ala Leu Leu Ala Arg Ile Glu Gln Ala
 85 90 95
 Ile Ala Asp Leu Asp Tyr Arg Pro Ser Leu Met Ala Arg Gly Leu Lys
 100 105 110
 Arg Gly Arg Thr Arg Leu Ile Gly Leu Ile Ile Ala Asp Ile Thr Asn
 115 120 125
 Pro Tyr Ser Val Asn Val Leu Ser Gly Ile Glu Ala Ala Cys Arg Glu
 130 135 140
 Lys Gly Phe Thr Pro Leu Val Cys Asn Thr Asn Asn Glu Val Asp Gln
 145 150 155 160
 Glu Leu His Tyr Leu Asp Leu Leu Arg Ser Tyr Gln Val Glu Gly Ile
 165 170 175
 Val Val Asn Ala Val Gly Met Arg Glu Gly Leu Asn Arg Leu Gln
 180 185 190
 Gln Ser Ser Leu Pro Met Val Leu Ile Asp Arg Lys Ile Pro Glu Phe
 195 200 205
 Ala Cys Asp Val Val Gly Leu Asp Asn Thr Gln Ala Ala Thr Thr Ala
 210 215 220
 Thr Glu His Leu Ile Glu Gln Gly Phe Glu Ala Ile Leu Phe Leu Ser
 225 230 235 240
 Glu Pro Leu Gly Met Val Asn Thr Arg Arg Asp Arg Leu Ala Ala Phe
 245 250 255
 Arg Ala Thr Leu Ala Arg Tyr Pro Gly Val Ile Ala Glu Asn Ala Glu
 260 265 270
 Ile Pro Leu His Glu Ala Gly Gln Leu Asp Asn Thr Leu Arg Gln Phe
 275 280 285
 His Thr Arg His Arg Gly Met Arg Lys Ala Val Ile Ser Ala Asn Gly
 290 295 300
 Ala Leu Thr Leu Gln Val Ala Arg Ser Leu Lys Arg Ile Gly Leu His
 305 310 315 320
 Trp Gly Ser Asp Ile Gly Leu Leu Gly Phe Asp Glu Leu Glu Trp Ala
 325 330 335
 Glu Leu Ala Gly Val Gly Ile Thr Thr Leu Lys Gln Pro Thr Trp Gln
 340 345 350
 Ile Gly Tyr Ala Ala Val Glu Gln Val Val Arg Arg Ile Glu Gly Thr
 355 360 365
 Arg Asp Ala Val Arg Glu Gln Val Phe Ser Gly Glu Leu Ile Val Arg

370 375 380
 Gly Ser Thr Ala Arg
 385 390

<210> 6838
 <211> 314
 <212> PRT
 <213> Enterobacter cloacae

<400> 6838
 Thr Met His Lys Thr Leu Asp Val Ile Thr Ile Gly Glu Ala Met Ala
 1 5 10 15
 Met Phe Val Ala Thr Glu Thr Gly Glu Leu Ser Ala Val Glu His Phe
 20 25 30
 Ile Lys Arg Val Ala Gly Ala Glu Leu Asn Val Ala Thr Gly Leu Ala
 35 40 45
 Arg Leu Gly Leu Asn Val Gly Trp Val Ser Arg Val Gly Asn Asp Ser
 50 55 60
 Phe Gly His Phe Val Leu Asp Ser Leu Lys Lys Glu Gly Ile Asp Ala
 65 70 75 80
 Ala Gly Val Thr Leu Asp Gly Arg Phe Pro Thr Gly Phe Gln Leu Lys
 85 90 95
 Ser Lys Val Glu Asn Gly Thr Asp Pro Ile Val Glu Tyr Phe Arg Lys
 100 105 110
 Gly Ser Ala Ala Ser His Leu Ser Val Asp Asp Tyr His Ala Ala Tyr
 115 120 125
 Phe Ser Ser Ala Arg His Leu His Leu Ser Gly Val Ala Ala Ala Leu
 130 135 140
 Ser Ala Ser Ser Tyr Asp Leu Leu Asp His Ala Ala Ser Ala Met Lys
 145 150 155 160
 Ala Gln Gly Lys Thr Ile Ser Phe Asp Pro Asn Leu Arg Pro Val Leu
 165 170 175
 Trp Lys Ser Glu Ala Glu Met Ala Glu Lys Leu Asn Arg Leu Ala Phe
 180 185 190
 Gln Ala Asp Trp Val Leu Pro Gly Ile Lys Glu Gly Met Ile Leu Thr
 195 200 205
 Gly Glu Ser Thr Pro Glu Gly Ile Ala Asp Phe Tyr Leu Asn Arg Gly
 210 215 220
 Val Lys Ala Val Val Leu Lys Thr Gly Ala Asp Gly Ala Trp Phe Lys
 225 230 235 240
 Thr Ala Asp Gly Glu Gln Gly Ala Val Ala Ala Val Lys Val Asp Asn
 245 250 255
 Val Ile Asp Thr Val Gly Ala Gly Asp Gly Phe Ala Val Gly Val Ile
 260 265 270
 Ser Ala Leu Glu Gly Lys Pro Leu Ser Gln Ala Val Ala Arg Gly
 275 280 285
 Asn Lys Ile Gly Ser Leu Ala Ile Gln Val Gln Gly Asp Ser Glu Gly
 290 295 300
 Leu Pro Thr Arg Ala Glu Leu Gly Val
 305 310

<210> 6839
 <211> 446
 <212> PRT
 <213> Enterobacter cloacae

<400> 6839
 Ala Thr Val Tyr Pro Thr Asp Asn Gly Gly Asn Asn Leu Asn Asn Arg
 1 5 10 15
 Gly Lys Pro Met Asn Ser Ser Thr Asn Ala Val Lys Arg Trp Trp Tyr
 20 25 30

Ile Met Pro Ile Val Phe Ile Thr Tyr Ser Leu Ala Tyr Leu Asp Arg
 35 40 45
 Ala Asn Phe Ser Phe Ala Ser Ala Ala Gly Ile Asn Glu Asp Leu Gly
 50 55 60
 Ile Thr Lys Gly Val Ser Ser Leu Leu Gly Ala Leu Phe Phe Leu Gly
 65 70 75 80
 Tyr Phe Phe Phe Gln Ile Pro Gly Ala Ile Tyr Ala Glu Arg Arg Ser
 85 90 95
 Val Arg Lys Leu Ile Phe Ile Cys Leu Ile Leu Trp Gly Ala Cys Ala
 100 105 110
 Ser Leu Thr Gly Val Val Asn Asn Ile Pro Ala Leu Ala Ala Ile Arg
 115 120 125
 Phe Ile Leu Gly Val Val Glu Ala Ala Val Met Pro Ala Met Leu Ile
 130 135 140
 Tyr Ile Ser Asn Trp Phe Thr Lys Ser Glu Arg Ser Arg Ala Asn Thr
 145 150 155 160
 Phe Leu Ile Leu Gly Asn Pro Val Thr Val Leu Trp Met Ser Val Val
 165 170 175
 Ser Gly Tyr Leu Ile Gln Ser Phe Gly Trp Arg Glu Met Phe Ile Ile
 180 185 190
 Glu Gly Val Pro Ala Ile Ile Trp Ala Phe Cys Trp Trp Val Leu Val
 195 200 205
 Lys Asp Lys Pro Ala Gln Ala Lys Trp Leu Ser Glu Asp Glu Lys Ala
 210 215 220
 Ala Leu Gln Ala Gln Leu Asp Lys Glu Gln Gln Gly Leu Lys Ala Val
 225 230 235 240
 Arg Asn Tyr Gly Glu Ala Phe Arg Ser Arg Asn Val Ile Leu Leu Cys
 245 250 255
 Ala Gln Tyr Phe Thr Trp Ser Ile Gly Val Tyr Gly Phe Val Leu Trp
 260 265 270
 Leu Pro Ser Ile Ile Arg Ser Gly Gly Glu Asn Leu Gly Met Val Glu
 275 280 285
 Val Gly Trp Leu Ser Ser Val Pro Tyr Leu Ala Ala Thr Ile Ala Met
 290 295 300
 Ile Ile Val Ser Trp Ala Ser Asp Lys Leu Gln Asn Arg Lys Leu Phe
 305 310 315 320
 Val Trp Pro Leu Leu Ile Ala Ala Phe Ala Phe Ile Gly Ser Trp
 325 330 335
 Ala Val Gly Ala Asn His Phe Trp Val Ser Tyr Thr Leu Leu Val Ile
 340 345 350
 Ala Gly Ala Ala Met Tyr Ala Pro Tyr Gly Pro Phe Phe Ala Ile Ile
 355 360 365
 Pro Glu Met Leu Pro Arg Asn Val Ala Gly Gly Ala Met Ala Leu Ile
 370 375 380
 Asn Ser Met Gly Ala Leu Gly Ser Phe Phe Gly Ser Trp Phe Val Gly
 385 390 395 400
 Tyr Leu Asn Gly Ala Thr Gly Ser Pro Ser Ala Ser Tyr Ile Phe Met
 405 410 415
 Gly Val Ala Leu Phe Ala Ser Val Trp Leu Thr Leu Ile Val Lys Pro
 420 425 430
 Ala Asn Asn Gln Gln Leu Pro Val Gly Ala Arg His Ala
 435 440 445

<210> 6840

<211> 334

<212> PRT

<213> Enterobacter cloacae

<400> 6840

Ile Leu Leu Lys Ser Thr Glu Ile Ser Met Lys Pro Ser Val Ile Leu
 1 5 10 15

Tyr Lys Ala Leu Pro Glu Asp Leu Gln Lys Arg Leu Glu Glu His Phe
 20 25 30
 Thr Val Thr Arg Val Lys Asn Leu Ser Pro Glu Thr Val Ala Gln His
 35 40 45
 Ala Asp Ala Phe Ala Ser Ala Glu Gly Leu Leu Gly Ser Ser Glu Lys
 50 55 60
 Val Asp Ala Ala Leu Leu Glu Lys Met Pro Lys Leu Arg Ala Thr Ser
 65 70 75 80
 Thr Val Ser Val Gly Tyr Asp Asn Phe Asp Val Asp Ala Leu Asn Ala
 85 90 95
 Pro Asn Ile Leu Leu Met His Thr Pro His Ala Leu Thr Glu Thr Val
 100 105 110
 Ala Asp Thr Leu Asn Ala Leu Val Leu Asn Thr Ala Arg Pro Val Met
 115 120 125
 Glu Ile Gly Glu Arg Val Lys Ala Gly Glu Trp Thr Lys Ser Ile Gly
 130 135 140
 Pro Asp Trp Phe Gly Val Asp Val His Gly Lys Thr Leu Gly Ile Val
 145 150 155 160
 Gly Met Gly Arg Ile Gly Leu Ala Leu Ala Gln Arg Ala His Phe Gly
 165 170 175
 Phe Asn Met Pro Ile Leu Tyr Asn Ala Arg Arg His His Ser Glu Ala
 180 185 190
 Glu Glu Arg Phe Asn Ala Leu Tyr Cys Glu Leu Asp Thr Leu Leu Arg
 195 200 205
 Glu Ala Asp Phe Val Cys Leu Ile Leu Pro Leu Thr Asp Glu Thr Arg
 210 215 220
 His Leu Ile Gly Lys Ala Ala Phe Glu Lys Met Lys Lys Ser Ala Ile
 225 230 235 240
 Phe Ile Asn Ala Gly Arg Gly Pro Val Val Asp Glu Lys Ala Leu Ile
 245 250 255
 Glu Ala Leu Gln Asn Gly Glu Ile His Ala Ala Gly Leu Asp Val Phe
 260 265 270
 Glu Gln Glu Pro Leu Pro Val Asp Ser Pro Leu Leu Thr Met Pro Asn
 275 280 285
 Val Val Ala Leu Pro His Ile Gly Ser Ala Thr His Glu Thr Arg Tyr
 290 295 300
 Asn Met Ala Ala Thr Ala Val Asp Asn Leu Ile Ala Ala Leu Gly Gly
 305 310 315 320
 Lys Val Asp Lys Asn Cys Val Asn Pro Gln Ile Gln Gln
 325 330

<210> 6841

<211> 169

<212> PRT

<213> Enterobacter cloacae

<400> 6841

Leu Phe His Leu Arg Glu Gln Gln His Val Ile Asn Val Leu Ser Ala
 1 5 10 15
 Val Thr Arg Leu Gly Ala Asn Leu Leu Ala Val Gly Asp Val Ile Arg
 20 25 30
 His Gly Val Gly Val Glu Pro His Leu Thr Leu His Gly Glu Gln Ile
 35 40 45
 Gly Ala Lys Ser Lys Leu Leu Gln Asn Ser Lys His Val Leu Leu Phe
 50 55 60
 Glu Ser Ala Leu Arg Ile Ile Thr Arg Thr Ala Leu Thr Asn Lys His
 65 70 75 80
 Thr Ala Gln Arg Glu Leu Arg Gly Gly Ile Ala Gly Val Ala Ala Val
 85 90 95
 Ser Tyr Lys Ile Leu Phe Leu Arg Gln Phe Arg Gly Gly Ile Ala Val
 100 105 110

Ile Thr Glu Asp Thr His Met Ile Pro Ala Arg Arg Phe Ala Asp Asn
 115 120 125
 Glu Asp His Val Ser Ile Ile Gln Pro Val Ser Arg Ser Leu Val Gly
 130 135 140
 Glu Leu Phe Gly Trp Val Asn Gln Arg Phe His Ile Ala Gly Phe Val
 145 150 155 160
 Arg Leu Ser Pro Gly Ile Lys Thr
 165

<210> 6842

<211> 184

<212> PRT

<213> Enterobacter cloacae

<400> 6842

Lys Asn Ala Ala Leu Ser Leu Trp Ala Pro Pro Ser Val Thr Pro Leu
 1 5 10 15
 Cys Arg Pro Ala Gly Trp Ser Met Thr Thr Leu Arg Ala Ala Ser Ala
 20 25 30
 Ile Arg Arg Ala Thr Met Ile Arg Lys Trp Gln Ser Glu Asn Thr Ala
 35 40 45
 Pro Leu Leu Ser Leu Trp Leu Glu Ser Thr Thr Glu Ala His Pro Phe
 50 55 60
 Ile Asp Ala Ser Tyr Trp Gln Ala Asn Glu Ala Val Val Arg Asp Glu
 65 70 75 80
 Tyr Leu Pro Ala Ala Glu Thr Trp Val Trp Glu Glu Asn Gly Thr Leu
 85 90 95
 Cys Gly Phe Ile Ser Val Met Gln Phe Gln Phe Val Gly Ala Leu Phe
 100 105 110
 Val Ala Pro Ala Phe Ile Gly Lys Gly Ile Gly Arg Ala Leu Leu Asn
 115 120 125
 His Val Gln Gln His Tyr Pro Tyr Leu Thr Leu Glu Val Tyr Gln Lys
 130 135 140
 Asn Val Arg Ala Val Asn Phe Tyr His Ala Gln Gly Phe Arg Ile Glu
 145 150 155 160
 Asp Ser Ala Trp Gln Asp Asp Thr Gln His Pro Thr Trp Ile Met Ser
 165 170 175
 Trp Gln Ala Asp Gln Thr Pro
 180

<210> 6843

<211> 77

<212> PRT

<213> Enterobacter cloacae

<400> 6843

Val Thr Gly Ser Ala Leu Ala Phe Ser Ala Phe Ile Arg Ala His Gly
 1 5 10 15
 Arg Ile Trp Arg Trp Lys Glu Gly Gly Ile Cys Lys Asn Gly Ala Leu
 20 25 30
 Asn Val Leu Thr Gln Asp Leu Pro Ser Ser Lys Leu Gly Asn Gly Cys
 35 40 45
 Ala Gly Asn Thr Ala Leu Ala Trp Val Glu Lys Tyr Glu Gly Pro Ala
 50 55 60
 Leu Thr Leu Thr Ala Phe Asp Pro Pro Ala Ser Ser
 65 70 75

<210> 6844

<211> 125

<212> PRT

<213> Enterobacter cloacae

<400> 6844

His Ile Ser Pro Asn Ser Ala Leu Ser Gly Val Ala Leu Met Met Ile
 1 5 10 15
 Lys Lys Ile Ser Gly Arg His Ala Ala Ser Gly Leu Val Gly Val Ser
 20 25 30
 Val Cys Leu Leu Phe Cys His Thr Ala Phe Ala Trp Gln Gln Glu Tyr
 35 40 45
 Ile Val Ser Asp Ala Gln Ser Asn Thr Thr Glu Arg Tyr Thr Trp Asp
 50 55 60
 Ala Asp His Gln Pro Arg Tyr Glu Asp Ile Leu Ala Glu Arg Ile Asn
 65 70 75 80
 Arg Thr Gln Asn Ala Tyr Gly Val Tyr Pro Glu Arg Ser Leu Arg Phe
 85 90 95
 Gly Cys Gly Asn Arg Ser Glu Arg Trp Leu Glu Phe Ser Arg Gly Gly
 100 105 110
 Thr Phe His His Arg Ala Arg His Gly Val Ala His
 115 120 125

<210> 6845

<211> 108

<212> PRT

<213> Enterobacter cloacae

<400> 6845

Asp Pro Tyr Leu Ala Arg Leu Glu Lys Thr Lys Gln Gly Gln Asp Leu
 1 5 10 15
 Lys Pro Val Tyr Asp Gln Val Tyr Glu Lys Val Val Thr Lys Pro Ser
 20 25 30
 Asn Ala Leu Gln Pro Leu Ile Pro Ala Ala Gln Val Phe Thr Gln Gln
 35 40 45
 Leu Val Gln Val Gly Asp Phe Ile Ser Glu Gln Gly Thr Gln Val Ser
 50 55 60
 Phe Val Ser Asn Gly Ile Gln Phe Pro Thr Ser Gln Gln Ala Ser Gln
 65 70 75 80
 Tyr Asn Ala Leu Ile Gly Pro Leu Ala Ser Gln His Gln Ala Phe Ser
 85 90 95
 Gln Ala Trp Ser Ala Ala Val Ala Ala Thr Glu
 100 105

<210> 6846

<211> 98

<212> PRT

<213> Enterobacter cloacae

<400> 6846

Pro Phe Leu His Arg Leu Lys Ile Cys Asn Ala Ile His Gln Ala Gly
 1 5 10 15
 Arg His Asn Ile Phe Val Asn Lys Val Ile Ser Met Ser Ala Lys Met
 20 25 30
 Thr Gly Leu Val Lys Trp Phe Asn Ala Asp Lys Gly Phe Gly Phe Ile
 35 40 45
 Thr Pro Asp Asp Gly Ser Lys Asp Val Phe Val His Phe Ser Ala Ile
 50 55 60
 Gln Asn Asp Gly Tyr Lys Ser Leu Asp Glu Gly Gln Lys Val Ser Phe
 65 70 75 80
 Thr Ile Glu Ser Gly Ala Lys Gly Pro Ala Ala Gly Asn Val Val Ser
 85 90 95
 Leu

<210> 6847
 <211> 178
 <212> PRT
 <213> Enterobacter cloacae

<400> 6847

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Lys Lys Ser Val Val Ala Met Leu Leu Leu Ala Trp Trp Val Phe Gln
1      5      10      15
Ser Ala Cys Phe Phe Val Thr Pro Leu Leu Arg Gly Asn Arg Asn Ile
20      25      30
Ser Phe Gln Met His Lys Val Ile Arg Arg Asn Val Ile His Gly Thr
35      40      45
Pro Ile Thr Asn Leu Val Met Lys Ile Phe Ser Arg Ser Val Leu Thr
50      55      60
Ala Pro Arg Met Pro Thr Gly Phe Thr Leu Asn Asp Pro Ser Gly Ser
65      70      75      80
Asp Ala Glu Thr Val Leu Ser Val Gly Trp Asn Phe Pro Val Ala Gly
85      90      95
His Phe Thr Thr Gly Pro Val Met Ala Trp Arg Thr Asp Gly Ala Pro
100     105     110
Pro Val Thr Val Asn Ala Phe Glu Asp Thr Thr Thr Thr Gln Ser Leu
115     120     125
Thr Asp Pro Leu Trp His Ala Ser Val Asn Ser Leu Gly Trp Arg Val
130     135     140
Asp Thr Gln Tyr Gly Asp Leu His Pro Trp Ala Lys Ile Ser Tyr Asn
145     150     155     160
Gln Gln Thr Glu Glu Glu Tyr Leu Tyr Thr Leu Gly Leu Ser Ala Lys
165     170     175
Phe

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<210> 6848
 <211> 429
 <212> PRT
 <213> Enterobacter cloacae

<400> 6848

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Asp Ser Ala Gly Leu Tyr Thr Pro Ser Pro Arg Val Val Cys Met Lys
1      5      10      15
Tyr Ile Arg Ser Leu Thr Gln Gln Arg Leu Cys Leu Met Leu Ala Val
20      25      30
Tyr Ile Gly Leu Phe Leu Asn Gly Ala Val Leu Phe Arg Arg Val Glu
35      40      45
Gly Tyr Phe Glu His Leu Thr Val Arg Asn Gly Ile Phe Ala Ala Ile
50      55      60
Glu Val Phe Gly Ser Ile Leu Ala Thr Phe Phe Leu Leu Arg Leu Leu
65      70      75      80
Ser Leu Phe Gly Arg Arg Thr Trp Gln Val Leu Ala Ser Leu Val Val
85      90      95
Ile Ile Ser Ala Ala Ala Ser Tyr Tyr Met Thr Phe Met Asn Val Val
100     105     110
Ile Gly Tyr Gly Ile Val Ala Ser Val Met Thr Thr Asp Ile Asp Leu
115     120     125
Ser Lys Glu Val Val Gly Gln Gly Phe Ile Leu Trp Thr Ile Leu Thr
130     135     140
Cys Leu Ile Pro Leu Phe Phe Ile Trp Ser Asn Thr Cys Arg Tyr Thr
145     150     155     160
Leu Leu Arg Gln Leu Arg Thr Arg Gly Gln Arg Ile Arg Asn Val Ala
165     170     175
Val Val Leu Leu Ala Gly Leu Leu Val Trp Ala Pro Ile Arg Leu Met
180     185     190

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Glu Lys Gln Gln Lys Arg Ile Glu Lys Ala Thr Gly Val Asp Met Pro
 195 200 205
 Ser Tyr Gly Gly Val Val Ala Asn Ser Tyr Leu Pro Ser Asn Trp Leu
 210 215 220
 Ser Ala Leu Gly Leu Tyr Ala Trp Ala Gln Ala Asp Glu Ser Ser Asp
 225 230 235 240
 Val Lys Ser Leu Ile Asn Pro Thr Lys Lys Phe Thr Tyr Gln Ala Pro
 245 250 255
 Ala Asp Gly Leu Asp Asp Thr Tyr Val Val Phe Val Ile Gly Glu Thr
 260 265 270
 Thr Arg Trp Asp His Met Gly Ile Leu Gly Tyr Asp Arg Asp Thr Thr
 275 280 285
 Pro Lys Leu Ala Gln Glu Lys Asn Leu Val Ala Tyr Arg Gly Tyr Ser
 290 295 300
 Cys Asp Thr Ala Thr Lys Leu Ser Leu Arg Cys Met Phe Val Arg Glu
 305 310 315 320
 Gly Gly Ala Ser Asp Asn Pro Gln Arg Thr Leu Lys Glu Gln Asn Val
 325 330 335
 Phe Ala Val Leu Lys Gln Leu Gly Phe Ser Ser Asp Leu Phe Ala Met
 340 345 350
 Gln Ser Glu Met Trp Phe Tyr Thr Asn Thr Met Ala Asp Asn Ile Ala
 355 360 365
 Tyr Arg Glu Gln Ile Gly Ala Glu Pro Arg Asn Arg Gly Lys Asn Val
 370 375 380
 Asp Asp Met Leu Leu Leu Ser Glu Met Glu Gln Ser Leu Lys Asn His
 385 390 395 400
 Pro Gln Gly Lys His Leu Ile Val Leu His Thr Lys Gly Ser His Tyr
 405 410 415
 Ser Leu His Ala Arg Gly Arg Gly Tyr Arg Ala Met Arg
 420 425

<210> 6849

<211> 744

<212> PRT

<213> Enterobacter cloacae

<400> 6849

Ile Ala Ser Met Lys Gly Arg Asn Thr Cys Thr Gln Pro Gly Ala His
 1 5 10 15
 Ala Leu Ser Thr Ser Thr Lys Thr Ile Leu Thr Ala Ala His Trp Gly
 20 25 30
 Pro Met Leu Val Glu Thr Asp Gly Asp Thr Val Leu Ser Ser Arg Gly
 35 40 45
 Ala Leu Pro Ser Arg His Leu Asn Ser Leu Gln Thr Val Val Arg Asp
 50 55 60
 Gln Val His Ser Lys Thr Arg Val Arg Trp Pro Met Val Arg Lys Gly
 65 70 75 80
 Phe Leu Ala Ser Pro Asp Lys Pro Gln Gly Ile Arg Gly Gln Asp Glu
 85 90 95
 Phe Val Arg Val Ser Trp Asp Asp Ala Leu Ala Leu Ile His Thr Gln
 100 105 110
 His Lys Arg Ile Arg Asp Ser Tyr Gly Pro Ser Ser Ile Phe Ala Gly
 115 120 125
 Ser Tyr Gly Trp Arg Ser Asn Gly Val Leu His Lys Ala Ala Thr Leu
 130 135 140
 Leu Gln Arg Tyr Met Ser Leu Ala Gly Gly Tyr Thr Gly His Leu Gly
 145 150 155 160
 Asp Tyr Ser Thr Gly Ala Ala Gln Ala Ile Met Pro Tyr Val Val Gly
 165 170 175
 Gly Asn Glu Val Tyr Gln Gln Gln Thr Ser Trp Pro Leu Val Leu Glu
 180 185 190

His Thr Glu Val Val Val Leu Trp Ser Ala Asn Pro Leu Asn Thr Leu
 195 200 205
 Lys Ile Ala Trp Asn Ala Ser Asp Glu Gln Gly Val Ser Tyr Phe Asp
 210 215 220
 Ala Leu Arg Lys Ser Gly Lys Arg Ile Ile Cys Ile Asp Pro Met Arg
 225 230 235 240
 Ser Glu Thr Leu Asp Phe Phe Gly Asn Ser Ala Glu Trp Ile Ala Pro
 245 250 255
 His Met Gly Thr Asp Val Ala Met Met Leu Gly Ile Ala His Thr Leu
 260 265 270
 Val Glu Asn Gly Trp His Asp Thr Glu Phe Leu Ala Arg Cys Thr Thr
 275 280 285
 Gly Phe Asp Lys Phe Ala Asp Tyr Leu Thr Gly Gln Ser Asp Gly Ile
 290 295 300
 Ala Lys Thr Ala Glu Trp Ala Ala Ala Ile Cys Gly Val Asn Ala Val
 305 310 315 320
 Lys Ile Arg Glu Leu Ala Ala Leu Phe His Ser His Val Thr Met Leu
 325 330 335
 Met Thr Gly Trp Gly Met Gln Arg Gln Gln Phe Gly Glu Gln Lys His
 340 345 350
 Trp Met Leu Leu Thr Leu Ala Ala Met Leu Gly Gln Ile Gly Thr Pro
 355 360 365
 Gly Gly Gly Phe Gly Leu Ser Tyr His Phe Ala Asn Gly Gly Asn Pro
 370 375 380
 Thr Arg Lys Ala Ala Val Leu Ala Ser Met Gln Gly Ser Val Gln Gly
 385 390 395 400
 Gly Val Asp Ala Val Asp Lys Ile Pro Val Ala Arg Ile Val Glu Ala
 405 410 415
 Leu Glu Asn Pro Gly Gly Phe Tyr Gln His Asn Gly Gln Asp Arg His
 420 425 430
 Phe Pro Asp Ile Lys Phe Ile Trp Trp Ala Gly Gly Ala Asn Phe Thr
 435 440 445
 His His Gln Asp Thr Asn Arg Leu Ile Arg Ala Trp Gln Lys Pro Glu
 450 455 460
 Leu Val Val Ile Ser Glu Cys Phe Trp Thr Ala Ser Ala Lys His Ala
 465 470 475 480
 Asp Ile Val Leu Pro Ala Thr Thr Ser Phe Glu Arg Asn Asp Leu Thr
 485 490 495
 Met Thr Gly Asp Tyr Ser Asn Gln His Met Val Pro Met Lys Arg Val
 500 505 510
 Val Ala Pro Arg Asp Glu Ala Arg Asp Asp Phe Asp Val Phe Ala Asp
 515 520 525
 Leu Ser Glu Met Trp Glu Ala Gly Gly Arg Glu Arg Phe Thr Glu Gly
 530 535 540
 Lys Thr Asp Leu Gln Trp Leu Glu Thr Phe Tyr Gln Ile Ala Ser Gln
 545 550 555 560
 Arg Gly Ala Ala Gln Gly Val Ser Leu Pro Pro Phe Ala Glu Phe Trp
 565 570 575
 Glu Ala Asn Gln Leu Phe Glu Met Pro Glu Ser Glu Gln Asn Ala Arg
 580 585 590
 Phe Val Arg Phe Ala Asp Phe Arg Arg Asp Pro Glu Asn His Pro Leu
 595 600 605
 Lys Thr Glu Ser Gly Lys Ile Val Ile Tyr Ser Glu Arg Ile Ala Ser
 610 615 620
 Phe Gly Tyr Ala Asp Cys Pro Pro His Pro Ala Trp Leu Glu Pro Asp
 625 630 635 640
 Glu Trp His Gly Asn Ala Gln Pro Gly Gln Leu Gln Leu Leu Ser Ala
 645 650 655
 His Pro Ala His Arg Leu His Ser Gln Leu Asn Tyr Ser Ala Leu Arg
 660 665 670
 Glu Gln Tyr Ala Val Ala Gly Arg Glu Pro Ile Ala Leu Asn Ser Asp

675 680 685
 Asp Ala Lys Ala Arg Gly Ile Asn Asp Gly Asp Leu Val Arg Val Trp
 690 695 700
 Asn Ala Arg Gly Gln Val Leu Ala Gly Ala Val Val Ser Asp Gly Ile
 705 710 715 720
 Arg Pro Gly Val Phe Cys Ile His Gln Gly Ala Trp Pro Asp Leu Ala
 725 730 735
 Leu Glu Gly Gly Arg Tyr Leu
 740

<210> 6850

<211> 408

<212> PRT

<213> *Enterobacter cloacae*

<400> 6850

Phe Ile Leu Gln Asp Thr Ala Met Asn Thr Ser Thr Tyr Asn Arg Thr
 1 5 10 15
 Arg Trp Leu Thr Leu Phe Gly Thr Ile Val Thr Gln Phe Ala Leu Gly
 20 25 30
 Ser Val Tyr Thr Trp Ser Leu Phe Asn Ser Ala Leu Ser Asp Lys Leu
 35 40 45
 Gly Ala Pro Ile Ser Gln Val Ala Phe Ser Phe Gly Leu Leu Ser Leu
 50 55 60
 Gly Leu Ala Ile Ser Ser Ser Val Ala Gly Lys Leu Gln Glu Arg Phe
 65 70 75 80
 Gly Val Lys Arg Val Thr Met Ala Ser Gly Ile Leu Leu Gly Leu Gly
 85 90 95
 Phe Phe Leu Thr Ala Tyr Ser Asn Asn Leu Met Met Leu Trp Leu Ser
 100 105 110
 Ala Gly Val Leu Val Gly Leu Ala Asp Gly Ala Gly Tyr Leu Leu Thr
 115 120 125
 Leu Ser Asn Cys Val Lys Trp Phe Pro Glu Arg Lys Gly Leu Ile Ser
 130 135 140
 Ala Phe Ala Ile Gly Ser Tyr Gly Leu Gly Ser Leu Gly Phe Lys Phe
 145 150 155 160
 Ile Asp Ala His Leu Leu Ala Ser Val Gly Leu Glu Lys Thr Phe Met
 165 170 175
 Ile Trp Gly Val Ile Val Leu Val Met Ile Leu Phe Gly Ala Thr Leu
 180 185 190
 Met Lys Asp Ala Pro Gln Gln Glu Val Lys Thr Val Asn Gly Val Val
 195 200 205
 Glu Asn Asp Phe Thr Leu Ala Gln Ser Met Arg Lys Pro Gln Tyr Trp
 210 215 220
 Met Leu Ala Val Met Phe Leu Thr Ala Cys Met Ser Gly Leu Tyr Val
 225 230 235 240
 Ile Gly Val Ala Lys Asp Ile Ala Gln Gly Met Val Lys Leu Asp Ala
 245 250 255
 Ala Thr Ala Ala Asn Ala Val Thr Val Ile Ser Ile Ala Asn Leu Ser
 260 265 270
 Gly Arg Leu Val Leu Gly Ile Leu Ser Asp Lys Ile Ala Arg Ile Arg
 275 280 285
 Val Ile Thr Leu Gly Gln Val Ile Ser Leu Val Gly Met Ala Ala Leu
 290 295 300
 Leu Phe Ala Pro Leu Asn Glu Ala Thr Phe Phe Ala Ala Ile Ala Cys
 305 310 315 320
 Val Ala Phe Asn Phe Gly Gly Thr Ile Thr Val Phe Pro Ser Leu Val
 325 330 335
 Ser Glu Phe Phe Gly Leu Asn Asn Leu Ala Lys Asn Tyr Gly Val Ile
 340 345 350
 Tyr Leu Gly Phe Gly Ile Gly Ser Ile Cys Gly Ser Leu Ile Ala Ser

355 360 365
 Leu Phe Gly Gly Phe Tyr Val Thr Phe Cys Val Ile Phe Ala Leu Leu
 370 375 380
 Ile Ile Ser Leu Ala Leu Ser Thr Thr Ile Arg Gln Pro Gln Arg Glu
 385 390 395 400
 Val Tyr Lys Glu Ala His Ala
 405

<210> 6851

<211> 398

<212> PRT

<213> Enterobacter cloacae

<400> 6851

Lys Cys Ala Thr Met Leu Thr Thr Leu Ile Tyr Arg Ser His Leu Arg
 1 5 10 15
 Ala Asp Ala Pro Ile Gln Ser Ile Ile Asp Met Val Ser Glu Ala Asn
 20 25 30
 Ser Arg Asn Glu Arg Ala Gly Val Thr Gly Val Leu Leu Phe Asn Gly
 35 40 45
 Ile His Phe Leu Gln Leu Leu Glu Gly Asp Glu Ala Ala Val Met Gln
 50 55 60
 Ile Tyr Glu Lys Ile Cys Leu Asp Thr Leu His Phe Asn Ile Val Glu
 65 70 75 80
 Leu Leu Ser Asp Tyr Ala Pro Tyr Arg Arg Phe Gly Arg Ser Gly Met
 85 90 95
 Glu Leu Ile Asp Ile Arg Leu Phe Ser Lys Glu Glu Cys Leu Asp Arg
 100 105 110
 Val Leu Gln Arg Gly Thr Thr Gln His Lys Met Leu Tyr Asn Asp Arg
 115 120 125
 Ala Leu Arg Phe Phe Arg Thr Phe Ile Asp Ser Ala Glu Thr Asp Asn
 130 135 140
 Tyr Tyr Glu Leu Pro Asp Arg Phe Ser Trp Phe Phe Ser Ser Asp Gln
 145 150 155 160
 Ile Asp Val Ser Ser Val Asp Pro Ala Ile Ile Glu Asp Met Tyr Ala
 165 170 175
 Val Ile Asp Pro Leu Ala Ala Gln Ile His Ser Phe Val Leu Asn Ala
 180 185 190
 Lys Ser Asp Asn Asp Val Ile Lys Val Asn Asn Leu Leu Phe Asp Leu
 195 200 205
 Glu Ser Lys Lys Asp Leu Leu Lys Ile Ala Gly Gly Phe Ile Thr Ser
 210 215 220
 Ser Gln Arg Val Ser Ile Thr Leu Leu Pro Leu Thr Leu Leu Arg Val
 225 230 235 240
 Pro Asn Ala Ile Glu Ile Leu Leu Asp Tyr Ile Arg Glu Ser Asn Leu
 245 250 255
 His Pro Glu Gln Val Leu Val Glu Phe Ser Glu Ser Glu Ile Ile Pro
 260 265 270
 Glu Ile Asp Glu Phe Ala His Ser Val Gln Ile Leu Lys Ser Cys Gly
 275 280 285
 Leu Ser Val Ala Ile Asn Asp Phe Gly Val Gly Asn Ala Gly Leu Leu
 290 295 300
 Phe Leu Ser Lys Phe Gln Pro Glu Lys Leu Lys Ile His Pro Gln Leu
 305 310 315 320
 Ile His Asn Ile His Lys Asp Gly Ser Lys Gln Ala Ile Leu Gln Ser
 325 330 335
 Leu Ile Arg Cys Gly Glu Leu Leu Glu Ile Arg Ile Cys Ala Thr Gly
 340 345 350
 Val Glu Gln Pro Glu Glu Trp Met Trp Leu Glu Ser Ala Gly Ile Phe
 355 360 365
 Cys Phe Gln Gly Asn Leu Phe Ser Lys Tyr Asp Lys Asn Gly Tyr Leu

370 375 380
 Lys Ile Phe Trp Pro Glu Ser Asn Glu Phe Ile Gln Cys
 385 390 395

<210> 6852
 <211> 286
 <212> PRT
 <213> Enterobacter cloacae

<400> 6852
 Gly Arg Glu Val Arg Thr His His Tyr Arg Val Gly Glu Arg Met Asn
 1 5 10 15
 Leu Glu Asn Thr Leu Lys Tyr His Phe Ala Lys Ser Thr Met Ile Ser
 20 25 30
 Asp Ser Pro Arg Ala Thr Ala Ser Asp Ser Leu Ser Gly Thr Asp Ile
 35 40 45
 Met Ala Ala Met Gly Met Thr Gln Glu Arg Ala Ala Leu Gly Tyr Ser
 50 55 60
 Ala Phe Leu Gly Lys Met Gly Ile Ser Asn Asn Asp Arg Glu Arg Ala
 65 70 75 80
 Ile Glu Leu Leu Ala Gln Tyr Ala Leu Thr Lys Cys Asp Arg Val Ala
 85 90 95
 Ala Leu Arg Lys Leu Asp Ala Arg Val Lys Pro Leu Val Met His Gln
 100 105 110
 Leu Ala Ser Phe Ala Phe Glu Asp Tyr Ser Arg Ser Ala Ala Ser Val
 115 120 125
 Lys Gln Cys Asp Cys Cys Ser Gly Gln Gly Phe Ile Glu Ala Asp Val
 130 135 140
 Phe Thr Met Lys Ser His Tyr Thr Met Lys Leu Pro Gln Trp Ala Lys
 145 150 155 160
 Asp Leu Lys Gln Ser Pro Ser Tyr Phe Glu Val Lys Arg Gln Val Lys
 165 170 175
 Glu Val Ala Lys Val Leu Cys Ser Thr Cys Lys Gly Lys Lys Val Val
 180 185 190
 Ser Cys Ala Cys Lys Asp Cys His Gly Arg Gly Lys Ala Val Asn Gln
 195 200 205
 Asp Leu Thr Glu Lys Gln Gly Val Pro Val Leu Ala Asp Cys Lys Arg
 210 215 220
 Cys Gly Gly Arg Gly Tyr Glu Arg Ile Pro Ser Thr Glu Ala Tyr Ala
 225 230 235 240
 Ala Val Arg Gln Ile Thr Asp Thr Ile Ser Leu Asp Thr Trp Lys Lys
 245 250 255
 Ser Val Lys Pro Phe Tyr Asp Gln Leu Ile Thr Lys Phe Asp Ile Glu
 260 265 270
 Glu Ala Trp Ala Asp Ala Gln Leu Lys Gln Ile Thr Lys
 275 280 285

<210> 6853
 <211> 233
 <212> PRT
 <213> Enterobacter cloacae

<400> 6853
 Arg Gly Ala Gly Met Lys Asn Leu Ala Glu Ser Ile Arg Asn Phe Asp
 1 5 10 15
 Arg Glu Gln Ala Cys Arg Val Ala His Asn Leu Pro Glu Gln Tyr Thr
 20 25 30
 Glu Arg Glu Gln Thr Gln Gln Val Ala Gln Ile Ile Asn Gly Leu Phe
 35 40 45
 Val Gln Leu Ala Ala Ala Phe Pro Ala Ser Leu Val Asn Arg Ser Gln
 50 55 60

Asp Asp Val Asp Glu Ile Arg Arg Gln Trp Val Leu Ala Phe Lys Glu
 65 70 75 80
 Asn Gly Ile Asn Thr Met Glu Gln Val Glu Ala Gly Met Arg Met Val
 85 90 95
 Arg Arg Gln Glu Arg Pro Phe Leu Pro Ser Pro Gly Gln Phe Ile Lys
 100 105 110
 Trp Cys Arg Glu Gly Arg Cys Val Leu Gly Val Thr Thr Ala Asp Val
 115 120 125
 Met Ala Glu Tyr Trp Lys Trp Arg Lys Leu Val Phe Arg Tyr Pro Ser
 130 135 140
 Ser Glu Gln Tyr Pro Trp Pro Lys Pro Val Tyr Tyr His Ile Cys Leu
 145 150 155 160
 Glu Leu Arg Arg Arg Gly Thr Asp Gly Gln Leu Ser His Lys Glu Leu
 165 170 175
 Glu Arg Glu Ala Gly Asp Ile Leu Asp Arg Trp Glu Lys Arg Val Leu
 180 185 190
 Ala Gly Lys Pro Ile Pro Pro Ile Arg Arg Ala Leu Ala Ala Pro Val
 195 200 205
 Ala Pro Lys Gly Pro Thr Pro Ala Glu Leu Leu Lys Thr Lys Tyr Gln
 210 215 220
 Arg Met Lys Ala Asp Gly Arg Ala
 225 230

<210> 6854

<211> 104

<212> PRT

<213> Enterobacter cloacae

<400> 6854

Arg Ser Cys Glu Ala Ser Phe Tyr Phe Lys Arg Leu Lys Lys Val Glu
 1 5 10 15
 Ile Thr Met Lys Arg Pro Asn Trp Phe Gln Val Ser Asp Lys Gly Gly
 20 25 30
 Lys Ala Ile Ala Ala Leu His His Tyr Ala Thr Thr Gly Thr Gly Leu
 35 40 45
 Pro Ala Glu Leu Ile His Leu Ile Phe Leu Arg Val Ser Gln Ile Asn
 50 55 60
 Gly Cys Ala His Cys Ile Asp Ile His Thr Arg Asp Leu Ile Lys Ser
 65 70 75 80
 Gly Met Ser Val Glu Lys Ile Val Leu Cys Leu Phe Trp Arg Glu Pro
 85 90 95
 Ser Tyr Phe Ile Leu Arg Ile
 100

<210> 6855

<211> 162

<212> PRT

<213> Enterobacter cloacae

<400> 6855

Asp Gly Asp Ser Gly Asp Ser Gln Arg Ile Ser Leu Met Lys Glu Ile
 1 5 10 15
 Asp Val Gly Phe Thr His Val Ala Phe Val Val Arg Asp Leu Asp Lys
 20 25 30
 Ser Ile Asp Phe Tyr Gly Arg Tyr Ala Gly Met Glu Val Val His Arg
 35 40 45
 Arg Glu Pro Asp Leu Pro Glu Ala Arg Lys Val Ala Trp Leu Ser Asp
 50 55 60
 Leu Thr Arg Pro Phe Ala Leu Val Leu Val Gln Val Asp Ala Val Thr
 65 70 75 80
 Asp Thr Pro Leu Gly Asn Phe Gly His Leu Gly Val Ala Cys Ser Ser

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      85      90      95
Ile Glu Glu Ile Asp Asn Lys Ile Ala Met Ala Arg Met Glu Gly Ile
      100      105      110
Leu Arg Lys Glu Pro Val Gln Thr Gly Glu Pro Val Gly Tyr Tyr Val
      115      120      125
Phe Phe Ala Asp Pro Asp Gly Asn Thr Leu Glu Leu Ser Tyr Gly Gln
      130      135      140
Lys Val Gly Ile Glu Ala Phe Arg His Tyr Asp Thr Val Pro Ala Ser
145      150      155      160
Gln

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<210> 6856
 <211> 158
 <212> PRT
 <213> Enterobacter cloacae

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<400> 6856
Ala Gln Pro Lys Pro Gly Leu Arg Asp Leu Asp Cys Lys Cys Ile Leu
1      5      10
Ala Asp Leu Lys Tyr Thr Ser Ala Pro Gly Gln Pro Leu Ala Lys Pro
      20      25      30
Asp Val Gly Val Asn Val Lys Thr Tyr Gln Ile Thr Leu Pro Trp Pro
      35      40      45
Pro Ser Asn Asn Arg Tyr Tyr Arg His Asn Arg Gly Arg Thr His Ile
      50      55      60
Ser Ala Asp Gly Val Ala Tyr Arg Tyr Ala Val Ala Ser Val Ile Arg
65      70      75      80
Ser Ala Arg Leu Asn Ile Arg Thr Ala Ala Pro Leu Lys Ile Arg Ile
      85      90      95
Glu Cys His Met Pro Asp Arg Arg Arg Arg Asp Leu Asp Asn Leu Gln
      100      105      110
Lys Ala Ala Phe Asp Ala Leu Thr Lys Ala Arg Phe Trp Leu Asp Asp
      115      120      125
Cys Gln Val Val Asp Tyr Arg Val Val Lys Met Pro Val Val Lys Gly
      130      135      140
Gly Lys Leu Glu Leu Thr Ile Thr Glu Leu Glu Asn Ala
145      150      155

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<210> 6857
 <211> 298
 <212> PRT
 <213> Enterobacter cloacae

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<400> 6857
Arg Gly Ala Ser Gly Gly Ser Trp Ala Lys Val Leu Thr Thr Asp Gln
1      5      10      15
Lys Arg Glu Ala Val Met Leu Met Cys Asp Ala Thr Gly Leu Ser Gln
      20      25      30
Arg Arg Ala Cys Arg Leu Thr Gly Leu Ser Leu Ser Thr Cys Arg Tyr
      35      40      45
Glu Ala His Arg Pro Ala Ala Asp Ala His Leu Ser Gly Arg Ile Thr
      50      55      60
Glu Leu Ala Leu Glu Arg Arg Arg Phe Gly Tyr Arg Arg Ile Trp Gln
65      70      75      80
Leu Leu Arg Arg Glu Gly Leu His Val Asn His Lys Arg Val Tyr Arg
      85      90      95
Leu Tyr His Leu Ser Gly Leu Gly Val Lys Arg Arg Arg Arg Arg Lys
      100      105      110
Gly Leu Ala Thr Glu Arg Leu Pro Leu Leu Arg Pro Ala Ala Pro Asn
      115      120      125

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Leu Thr Trp Ser Met Asp Phe Val Met Asp Ala Leu Ser Thr Gly Arg
 130 135 140
 Arg Ile Lys Cys Leu Thr Cys Val Asp Asp Phe Thr Lys Glu Cys Leu
 145 150 155 160
 Thr Val Thr Val Ala Phe Gly Ile Ser Gly Val Gln Val Thr Arg Ile
 165 170 175
 Leu Asp Ser Ile Ala Leu Phe Arg Gly Tyr Pro Ala Thr Ile Arg Thr
 180 185 190
 Asp Gln Gly Pro Glu Phe Thr Cys Arg Ala Leu Asp Gln Trp Ala Phe
 195 200 205
 Glu His Gly Val Glu Leu Arg Leu Ile Gln Pro Gly Lys Pro Thr Gln
 210 215 220
 Asn Gly Phe Ile Glu Ser Phe Asn Gly Arg Phe Arg Asp Glu Cys Leu
 225 230 235 240
 Asn Glu His Trp Phe Ser Asp Ile Val His Ala Arg Lys Ile Ile Asn
 245 250 255
 Asp Trp Arg Gln Asp Tyr Asn Glu Cys Arg Pro His Ser Thr Leu Asn
 260 265 270
 Tyr Gln Thr Pro Ser Glu Phe Ala Ala Gly Trp Arg Lys Gly His Ser
 275 280 285
 Glu Asn Glu Asp Ser Asp Val Thr Asn
 290 295

<210> 6858

<211> 153

<212> PRT

<213> Enterobacter cloacae

<400> 6858

Ala Lys Tyr Gly Ser Ala Phe Pro Gly Met Gly Arg His Pro Glu Gly
 1 5 10 15
 Gly Leu Ser Val Ala Ile Ser Asn Pro Arg Lys Pro Ala Glu Glu Leu
 20 25 30
 Gln Val Val Gly Val Asp Phe Ser Gly Gln Ala Asp Val Trp Asn Val
 35 40 45
 Lys Leu Phe Arg Trp Val Asp Asn Lys Glu Asp Ser Ala Ser Tyr Arg
 50 55 60
 Lys Asn Val Glu Gln Leu Val Pro Ala Ile Ile Tyr Val Leu Pro Leu
 65 70 75 80
 Arg Tyr Arg Asp Arg Val Val Lys Tyr Asp Ser Phe Ala Tyr Arg Met
 85 90 95
 Ala Arg Leu Glu Lys Glu Val Ser Glu Ala Lys Gln Ala Leu Met Leu
 100 105 110
 Asp Ala Pro Lys Lys Val Lys Leu Lys Glu Leu Gly Glu Gly Ile Phe
 115 120 125
 Glu Met Phe Arg Val Asp Pro Asp Val Thr Ala Pro Leu Leu Ala Met
 130 135 140
 Val Thr Thr Met Leu Gly Ala Met
 145 150

<210> 6859

<211> 330

<212> PRT

<213> Enterobacter cloacae

<400> 6859

Arg Arg Lys Pro Val Cys Val Asn Arg Thr Asp Phe Gln Val Gln Lys
 1 5 10 15
 Arg Ser Val Ile Ala Glu Leu Ser Met Ser Asn Thr Ala Glu Ile Ile
 20 25 30
 Asn Phe Pro His Arg Thr Glu Gln Pro Gly Gly Arg Met Ala Asp Leu

35 40 45
 Ser Asn Gly Tyr Thr Lys Val Ala Asn Glu Ile Gln Gln Leu Lys Pro
 50 55 60
 Arg Leu Arg Met Ser Gly Arg Glu Trp Gln Cys Phe Glu Ala Val Ile
 65 70 75 80
 Trp Leu Thr Tyr Gly Trp Asn Lys Lys Gln Asp Arg Val Thr Asn Thr
 85 90 95
 Val Ile Ala Glu Leu Thr Gly Leu Ser Asp Ser His Val Ser Asp Ala
 100 105 110
 Leu Lys Ser Leu Ala Glu Arg Lys Ile Ile Phe Ser Gln Lys Gln Gly
 115 120 125
 Val Met Lys Thr Val Gly Ile Asn Thr Asp Leu Ser Ala Trp Ile Leu
 130 135 140
 Asp Lys Pro Lys Thr Gly Lys Val Phe Pro Lys Ser Gly Lys Val Leu
 145 150 155 160
 Pro Lys Thr Gly Lys Thr Phe Pro Glu Thr Val Asp Thr Gln Asp Tyr
 165 170 175
 Asn Lys Asn Asn Ile Lys Arg Ser Ser Ser Arg Asn Ser Asp Glu Ser
 180 185 190
 Arg Asn Gln Lys Thr Gln Lys Phe Leu Ser Arg His Pro Glu Ala Ala
 195 200 205
 Asp Gly Ile Tyr Thr Pro Ala Gly Lys Ser Trp Gly Ser Ala Asp Asp
 210 215 220
 Leu Lys Ala Ala Arg Trp Ile Tyr Asp Arg Leu Leu Thr Val Asn Ala
 225 230 235 240
 Ser Leu Ser Glu Pro Asn Trp Ala Glu Trp Ala Asn Thr Ile Arg Leu
 245 250 255
 Met Arg Val Gln Asp Lys Arg Thr His Tyr Glu Ile Cys Asp Leu Phe
 260 265 270
 Gln Trp Ala Asn Arg Asp Glu Phe Trp Lys Asp Asn Ile Leu Ser Pro
 275 280 285
 Ser Ser Leu Arg Lys Gln Trp Asp Gln Leu Thr Thr Lys Arg Leu Arg
 290 295 300
 Ala Thr Gly Thr Ala Lys Pro Ser Arg Ser Gly Ile Asp Leu Leu Asn
 305 310 315 320
 Thr Asp Trp Ile Asp Gly Val Leu Glu
 325 330

<210> 6860

<211> 89

<212> PRT

<213> Enterobacter cloacae

<400> 6860

Ile Tyr Cys Ile Cys Ile Gln Leu Phe Ile Ala Glu Gly Lys Met Lys
 1 5 10 15
 Ile Glu Leu Thr Ile Asp Arg Met Lys Lys Leu Pro Val Gly Ala Ile
 20 25 30
 Pro Ala Leu Glu Ser Glu Leu Leu Lys Arg Leu Ser Lys Gln Phe Asp
 35 40 45
 Gly Cys Gln Ile Thr Ile Lys Arg Ala Ser Asn Asp Gly Leu Thr Val
 50 55 60
 Phe Gly Gly Asp Lys Lys Glu Val Glu His Ile Val Gln Glu Thr Trp
 65 70 75 80
 Glu Ser Ala Asp Glu Trp Phe Tyr
 85

<210> 6861

<211> 98

<212> PRT

<213> Enterobacter cloacae

<400> 6861

Cys Leu His Lys Pro His Glu Asp Ile Pro Met Lys Lys Arg Phe Ser
 1 5 10 15
 Asp Glu Gln Ile Ile Ser Ile Leu Arg Glu Ala Glu Ala Gly Val Pro
 20 25 30
 Ala Arg Glu Leu Cys Arg Lys His Ala Ile Ser Asp Ala Thr Phe Tyr
 35 40 45
 Ile Trp Arg Lys Lys Tyr Gly Gly Met Glu Val Pro Glu Val Lys Arg
 50 55 60
 Leu Lys Ser Leu Glu Glu Glu Asn Ala Arg Leu Lys Lys Leu Leu Ala
 65 70 75 80
 Glu Ala Met Leu Asp Lys Glu Ala Leu Gln Val Ala Leu Gly Arg Lys
 85 90 95

Tyr

<210> 6862

<211> 261

<212> PRT

<213> Enterobacter cloacae

<400> 6862

Tyr Trp Pro Lys Asn Lys Pro Glu Ala Gln Phe Gln Leu Met Asn Leu
 1 5 10 15
 Leu Ser Leu Leu Pro Val Gly Cys Asp Ile Phe Val Val Gly Glu Asn
 20 25 30
 Arg Ser Gly Val Arg Ser Ala Glu Gln Met Leu Glu Ala Trp Ala Pro
 35 40 45
 Leu Thr Lys Ile Asp Ser Ala Arg Arg Cys Gly Leu Tyr His Gly Arg
 50 55 60
 Leu Glu Lys Gln Thr Thr Phe Asp Ala Asp Ala Phe Trp Asp Glu Tyr
 65 70 75 80
 Gln Leu Glu Gly Leu Thr Ile Lys Thr Leu Pro Gly Val Phe Ser Arg
 85 90 95
 Asp Ala Leu Asp Thr Gly Ser Lys Leu Leu Ser Thr Leu Thr Pro
 100 105 110
 His Thr Lys Gly Lys Val Leu Asp Val Gly Cys Gly Ala Gly Val Leu
 115 120 125
 Ser Thr Val Leu Ala Ser His Ser Pro Lys Val Arg Leu Thr Leu Cys
 130 135 140
 Asp Val Ser Ala Pro Ala Val Glu Ala Ser Arg Ala Thr Leu Ala Ala
 145 150 155 160
 Asn Gly Ile Glu Gly Asp Val Ile Ala Ser Asn Val Phe Ser Asp Val
 165 170 175
 Thr Gly Arg Phe Asp Met Ile Met Ser Asn Pro Pro Phe His Asp Gly
 180 185 190
 Met Glu Thr Ser Leu Glu Ala Ala Gln Thr Leu Ile Arg Gly Ala Thr
 195 200 205
 Arg His Leu Asn Ser Gly Gly Glu Leu Arg Ile Val Ala Asn Ala Phe
 210 215 220
 Leu Ala Tyr Pro Lys Val Leu Asp Glu Thr Phe Gly Phe His Glu Val
 225 230 235 240
 Ile Ala Gln Thr Gly Arg Phe Lys Val Tyr Arg Thr Val Met Thr Arg
 245 250 255
 Gln Ala Lys Lys
 260

<210> 6863

<211> 313

<212> PRT

<213> Enterobacter cloacae

<400> 6863

Tyr Arg Lys Pro Phe Ser Gln Leu Lys Glu Val Met Pro Thr Met Thr
 1 5 10 15
 Gln Val Ala Lys Lys Ile Leu Val Thr Cys Ala Leu Pro Tyr Ala Asn
 20 25 30
 Gly Ser Ile His Leu Gly His Met Leu Glu His Ile Gln Ala Asp Val
 35 40 45
 Trp Val Arg Tyr Gln Arg Met Arg Gly His Glu Val Asn Phe Ile Cys
 50 55 60
 Ala Asp Asp Ala His Gly Thr Pro Ile Met Leu Lys Ala Gln Gln Leu
 65 70 75 80
 Gly Ile Ser Pro Glu Gln Met Ile Ala Glu Met Ser Gln Glu His Gln
 85 90 95
 Thr Asp Phe Ala Gly Phe Asp Ile Ser Tyr Asp Asn Tyr His Ser Thr
 100 105 110
 His Ser Asp Glu Asn Arg Glu Leu Ser Glu Leu Ile Tyr Thr Arg Leu
 115 120 125
 Lys Glu Asn Gly Phe Ile Lys Asn Arg Thr Ile Ser Gln Leu Tyr Asp
 130 135 140
 Pro Glu Lys Gly Met Phe Leu Pro Asp Arg Phe Val Lys Gly Thr Cys
 145 150 155 160
 Pro Lys Cys Lys Ser Pro Asp Gln Tyr Gly Asp Asn Cys Glu Val Cys
 165 170 175
 Gly Ala Thr Tyr Ser Pro Thr Glu Leu Ile Glu Pro Lys Ser Val Val
 180 185 190
 Ser Gly Ala Thr Pro Val Met Arg Asp Ser Glu His Phe Phe Phe Asp
 195 200 205
 Leu Pro Ser Phe Ser Glu Met Leu Lys Ala Trp Thr Arg Ser Gly Ala
 210 215 220
 Leu Gln Glu Gln Val Ala Asn Lys Met Gln Glu Trp Phe Glu Ser Gly
 225 230 235 240
 Leu Gln Gln Trp Asp Ile Ser Arg Asp Ala Pro Tyr Phe Gly Phe Glu
 245 250 255
 Ile Pro Asn Ala Pro Gly Lys Tyr Phe Tyr Val Trp Leu Asp Ala Pro
 260 265 270
 Ile Gly Tyr Met Gly Ser Phe Lys Asn Leu Cys Asp Lys Arg Gly Asp
 275 280 285
 Thr Val Ser Phe Asp Glu Tyr Trp Lys Lys Asp Ser Asp Ala Glu Leu
 290 295 300
 Tyr His Phe Ile Gly Lys Asp Ile Val
 305 310

<210> 6864

<211> 367

<212> PRT

<213> Enterobacter cloacae

<400> 6864

Met Lys Ser Met Asn Lys Asn Phe Thr Ala Ile Phe Val Met Gly Ile
 1 5 10 15
 Val Leu Ala Gly Thr Met Ser Gln Ala Glu Ala Ala Asn Thr Val Trp
 20 25 30
 Asp Asp Gln Gln Ile Thr Asn Ile Val Asn Asp His Gln Asp Gln Ile
 35 40 45
 Thr Gln Asn Asn Ala Asp Ser Ile Asn Arg Asp Ser Ala Thr Asp Asn
 50 55 60
 Arg Leu Thr Gln Val Asn Asp Asp Leu Gln Ser Thr Lys Leu Gly Val
 65 70 75 80
 Leu Val Val Asp Lys Met Ala Asn Asp Ala His Gln Lys Ala Leu Leu

```
<210> 6865
<211> 467
<212> PRT
<213> Enterobacter cloacae
```

Arg	Ser	Gly	Gly	Cys	Arg	Ser	Asp	Met	Met	Thr	Asp	Lys	Val	Arg	Ile
1				5					10					15	
Asp	Thr	Val	Asp	Ala	His	Lys	Ser	Asn	Glu	Thr	Tyr	Leu	Ala	Arg	Gln
			20					25					30		
Ala	Glu	Phe	Glu	Ser	Asn	Val	Arg	Ser	Tyr	Pro	Arg	Lys	Leu	Pro	Leu
		35					40					45			
Ala	Ile	Thr	Lys	Ala	Glu	Gly	Val	Trp	Ile	Thr	Asp	Ala	Asp	Asn	Lys
	50					55					60				
Glu	Tyr	Leu	Asp	Cys	Leu	Ala	Gly	Ala	Gly	Thr	Leu	Ala	Leu	Gly	His
65				70						75					80
Asn	His	Pro	Asp	Val	Leu	Lys	Ser	Ile	Gln	Asn	Val	Ile	Thr	Ser	Gly
				85					90					95	
Leu	Pro	Leu	His	Thr	Leu	Asp	Leu	Thr	Thr	Pro	Leu	Lys	Asp	Ala	Phe
			100					105					110		
Ser	Glu	Tyr	Leu	Leu	Ser	Leu	Leu	Pro	Gly	Gln	Gly	Lys	Glu	Tyr	Cys
		115					120					125			
Leu	Gln	Phe	Thr	Gly	Pro	Ser	Gly	Ala	Asp	Ala	Val	Glu	Ala	Ala	Leu
	130					135					140				
Lys	Leu	Ala	Lys	Lys	Val	Thr	Gly	Arg	Ser	Gly	Ile	Ile	Ser	Phe	Ser

```

145          150          155          160
Gly Gly Tyr His Gly Met Thr His Gly Ala Leu Ser Val Thr Gly Asn
          165          170          175
Leu Ser Pro Lys Glu Ala Val Asp Gly Met Met Pro Glu Val Gln Phe
          180          185          190
Met Pro Tyr Pro His Glu Tyr Arg Cys Pro Leu Gly Ile Gly Gly Glu
          195          200          205
Ala Gly Val Lys Ala Leu Thr Tyr Tyr Phe Glu Asn Leu Ile Asn Asp
          210          215          220
Val Glu Ser Gly Val Arg Lys Pro Ala Ala Val Ile Leu Glu Ala Val
225          230          235          240
Gln Gly Glu Gly Gly Val Asn Pro Ala Pro Val Glu Trp Leu Gln Arg
          245          250          255
Ile Arg Lys Val Thr Gln Glu His Gly Ile Leu Leu Ile Leu Asp Glu
          260          265          270
Val Gln Ala Gly Phe Ala Arg Thr Gly Lys Phe Phe Ala Phe Glu His
          275          280          285
Ala Gly Ile Glu Pro Asp Ile Ile Val Met Ser Lys Ala Val Gly Gly
          290          295          300
Gly Leu Pro Leu Ala Val Leu Gly Ile Lys Lys Gln Phe Asp Ala Trp
305          310          315          320
Ala Pro Gly His His Thr Gly Thr Phe Arg Gly Asn Gln Leu Ala Met
          325          330          335
Ala Thr Gly Leu Thr Thr Leu Lys Ile Leu Lys Asp Gln Asn Ile Ala
          340          345          350
Gly Lys Val Ala Ala Gln Gly Glu Trp Leu Lys Gly Gln Leu Lys Glu
          355          360          365
Met Ala Lys Arg Tyr Pro Val Ile Gly His Val Arg Gly Leu Gly Met
          370          375          380
Met Ile Gly Ile Glu Ile Val Lys Pro His Glu Ala Ala Asp His Met
385          390          395          400
Gly Cys Phe Pro Gly Asp Gly Glu Leu Ser Ala Leu Ile Gln Lys Lys
          405          410          415
Cys Phe Glu Ala Gly Leu Ile Leu Glu Arg Gly Gly Arg Asn Gly Ile
          420          425          430
Val Leu Arg Leu Leu Pro Ser Leu Leu Ile Ser Asp Asp Glu Leu Lys
          435          440          445
Val Phe Leu Asp Lys Phe Glu Gln Ala Leu Leu Ala Ala Gly Val Ser
          450          455          460
Pro Ala
465

```

<210> 6866

<211> 495

<212> PRT

<213> Enterobacter cloacae

<400> 6866

```

Pro Glu Leu Leu Ile Thr Met Ser Asp Ser Asn Pro Ile Leu Phe Ser
1          5          10          15
Ser Ala Gln Ser Ile Glu Ala Tyr Gln Gln Ala Ile Glu Gln Ser Thr
          20          25          30
Gln Ala Val Met Gln Trp Leu Lys Gln Pro Glu Met Tyr Gln Gly Lys
          35          40          45
Thr Val Ala Glu Leu Arg Asp Arg Ile Lys Leu Asp Phe Asn Pro Lys
          50          55          60
Gly Leu Gly Asn Glu Ala Ala Ile Glu Arg Ala Val Glu Phe Phe Leu
65          70          75          80
Lys Asp Ser Leu Ser Val His His Pro Gln Cys Val Ala His Leu His
          85          90          95
Cys Pro Ser Leu Val Val Ser Gln Ala Ala Glu Val Leu Ile Asn Ala

```



```
<210> 6867
<211> 133
<212> PRT
<213> Enterobacter cloacae
```

Thr	Val	Cys	His	Pro	Phe	Ala	Asp	Leu	His	Thr	Lys	Ser	Ile	Ser	Asn
1				5					10					15	
Asp	Met	Thr	Gly	Glu	Lys	Met	Ala	Lys	Arg	Lys	Leu	Leu	Leu	Gly	
			20					25					30		
Val	Leu	Val	Ser	Leu	Ala	Gly	Ala	Ala	His	Ala	Ala	Pro	Gln	Ala	Ser

```

      35              40              45
Thr Ala Pro Ser Gly Ile Lys Ala Tyr Glu Glu Gln Glu Phe Ile Ala
  50              55              60
Asp Phe Thr Lys Phe Lys Ile Gly Asp Thr Ala Pro Ala Gln Tyr Gln
65              70              75              80
Thr Pro Glu Tyr Thr Ile Lys Gln Tyr Gln Leu Arg Asn Leu Pro Ala
      85              90              95
Pro Asp Ala Gly Thr His Trp Thr Tyr Met Gly Glu Asn Tyr Val Leu
      100              105              110
Ile Gly Asp Ala Asp Gly Lys Ile Tyr Lys Ala Tyr Asn Gly Asp Ile
      115              120              125
Phe Tyr His Arg
      130

```

<210> 6868

<211> 164

<212> PRT

<213> Enterobacter cloacae

<400> 6868

```

Leu Ala Met Pro Met Ala Lys Ser Thr Lys Pro Ile Thr Glu Ile Phe
1              5              10              15
Ser Ile Thr Ala Asp Thr Ile Leu Ile Arg Pro Trp Gln Glu Ser Asp
      20              25              30
Arg Pro Phe Leu Arg Thr Leu Phe Leu His Ala Arg Arg Glu Ala Trp
      35              40              45
Pro Trp Leu Asp Ser Ser Ala Trp Gln Leu Glu Asp Phe Asp Ala Ala
      50              55              60
Thr Leu Asp Glu Glu Ile Trp Val Ala Glu Gln Asp Gly His Arg Leu
65              70              75              80
Gly Phe Ala Ser Val Trp Thr Asn Asp Asn Phe Leu His Asn Leu Phe
      85              90              95
Val Asp Pro Gln Tyr Gln Arg Leu Gly Val Gly His Leu Leu Leu Glu
      100              105              110
Gln Val Gln Lys Thr Phe Thr Asn Thr Gly Ala Leu Lys Cys Leu Val
      115              120              125
Lys Asn Glu Arg Ala Ile Ala Phe Tyr His Arg His Gly Trp His Ile
      130              135              140
Glu Ala Thr Gly Asp Ser Pro Asp Gly Glu Tyr Tyr Leu Met His Tyr
145              150              155              160
Arg Leu Gly

```

<210> 6869

<211> 750

<212> PRT

<213> Enterobacter cloacae

<400> 6869

```

Ser Gln Pro Gly Met Gly Thr Ser Phe Arg Ser Glu Arg Asn Glu Ala
1              5              10              15
Leu Met Ser Ser Tyr Thr Thr Asp Asn Tyr Gly Ala Ala Ala Pro Gln
      20              25              30
Gln His Glu Val Asp Leu Val Arg Leu Leu Val Glu Met Ile Asp His
      35              40              45
Arg Thr Met Ile Leu Cys Val Thr Phe Leu Phe Thr Leu Cys Ala Gly
      50              55              60
Leu Tyr Ala Trp Val Thr Pro Pro Val Tyr Gln Ala Asp Ala Met Val
65              70              75              80
Gln Ile Glu Ser Lys Gln Asp Asn Ser Leu Leu Lys Gly Leu Ser Gln
      85              90              95

```

Leu Gly Thr Asp Val Ser Pro Asp Val Ala Pro Glu Ile Leu Leu Leu
 100 105 110
 Lys Ser Arg Met Ile Leu Gly Glu Thr Val Asp Lys Leu Gly Leu Thr
 115 120 125
 Gln Gln Ala Lys Gln Arg Val Leu Pro Val Val Gly Arg Leu Trp Gln
 130 135 140
 Arg Leu Gln Gly Arg Gly Gln Gly Lys Ile Thr Leu Gly Glu Leu Gln
 145 150 155 160
 Ile Pro Gln Val Glu Gly Lys Ala Gln Glu Leu Thr Leu Thr Val Gln
 165 170 175
 Glu Ala Gly Lys Tyr His Leu Lys Gly Glu Asn Ile Lys Ala Glu Gly
 180 185 190
 Arg Val Gly Lys Thr Leu Val Thr Gln Gly Ile Val Leu Leu Val Thr
 195 200 205
 Ser Ile Glu Ala Thr Pro Gly Thr Gln Phe Ser Leu Lys Ser Leu Thr
 210 215 220
 Arg Leu Glu Thr Ile Asn Ala Leu Lys Lys Ser Leu Thr Val Thr Glu
 225 230 235 240
 Ser Glu Lys Gln Ser Gly Ile Val Thr Leu Thr Gly Glu Asp
 245 250 255
 Pro Asp Asn Ile Ala Arg Val Leu Asn Ala Ile Ala Asp Asn Tyr Leu
 260 265 270
 Gln Gln Asn Ile Ala Arg Gln Glu Ala Gln Asp Ser Arg Ser Leu Asp
 275 280 285
 Phe Leu Gln Glu Gln Leu Pro Lys Ile Arg Ala Asp Leu Asp Gln Ala
 290 295 300
 Glu Ala Arg Leu Asn Ala Tyr Arg Ala Gln Arg Asp Ser Val Asp Leu
 305 310 315 320
 Ser Leu Glu Ala Lys Ser Val Leu Asp Gln Val Val Asn Val Glu Asn
 325 330 335
 Gln Leu Asn Glu Leu Thr Phe Arg Glu Ala Glu Ile Ser Gln Leu Phe
 340 345 350
 Lys Lys Ser His Pro Thr Tyr Arg Ala Leu His Glu Lys Arg Gln Thr
 355 360 365
 Leu Glu Arg Glu Arg Asp Arg Leu Asn Asn Arg Val Ser Ala Met Pro
 370 375 380
 Ser Thr Gln Gln Glu Ile Leu Arg Leu Ser Arg Asp Val Glu Ser Gly
 385 390 395 400
 Arg Thr Ile Tyr Leu Gln Leu Leu Thr Arg Gln Gln Glu Leu Asn Ile
 405 410 415
 Ser Arg Ser Ser Ala Val Gly Asn Val Arg Ile Ile Asp Glu Ala Val
 420 425 430
 Thr His Pro Asp Pro Ile Lys Pro Arg Lys Ala Leu Ile Ile Ile Leu
 435 440 445
 Gly Ala Leu Phe Gly Leu Met Leu Ala Met Gly Thr Val Leu Val Arg
 450 455 460
 Gln Ala Phe Lys Arg Gly Ile Thr Leu Ser Glu Gln Leu Glu Ala Gln
 465 470 475 480
 Gly Leu Pro Val Leu Ala Thr Leu Pro Arg Ser Gln Trp Leu Trp Ser
 485 490 495
 Lys Thr His Leu Arg Arg Lys Asn Pro Phe Ser Arg Arg Trp Lys His
 500 505 510
 Lys Thr Ser Asp Val Pro Phe Leu Pro Val Asp Arg Pro Ala Asp Met
 515 520 525
 Phe Val Glu Ala Val Arg Gly Leu Arg Thr Ser Leu Tyr Phe Ala Met
 530 535 540
 Met Glu Ala Glu Asn Arg Ile Val Met Ile Ser Gly Pro Thr Gln Asp
 545 550 555 560
 Cys Gly Lys Thr Leu Val Ala Thr Asn Leu Ala Ala Val Ala Gly Gln
 565 570 575
 Ser Gly Gln Arg Val Leu Phe Ile Asp Ala Asp Met Arg Gln Gly Tyr

```
<210> 6870
<211> 168
<212> PRT
<213> Enterobacter cloacae
```

```
<210> 6871
<211> 164
<212> PRT
<213> Enterobacter cloacae
```

```

<400> 6871
Pro Tyr Arg Asn Gly Ser Leu His Gln Ile Val Ala Ala Ile Met Phe
1          5          10          15
Lys Ser Ile Leu Val Val Cys Thr Gly Asn Ile Cys Arg Ser Pro Ile
          20          25          30

```

Gly Glu Arg Leu Leu Arg Gln His Leu Pro Asp Arg His Ile Ala Ser
 35 40 45
 Ala Gly Ile Tyr Gly Leu Glu Gly Cys Pro Ala Asp Asp Ser Ala Gln
 50 55 60
 Asp Val Ala Trp Arg His Gly Ile Ser Leu Asp Gly His Val Ala Arg
 65 70 75 80
 Arg Leu Thr Arg Asn Leu Met Gln Gly Ser Asp Leu Ile Leu Val Met
 85 90 95
 Glu Pro Glu His Leu Arg Phe Ile Ala Ala Met Ala Pro Glu Ser Arg
 100 105 110
 Gly Lys Ser Leu Leu Phe Gly Gln Trp Leu Glu Pro Gln Asp Ile Pro
 115 120 125
 Asp Pro Tyr Arg Lys Ser Arg Glu Ala Phe Glu Tyr Val Phe Gly Leu
 130 135 140
 Leu Gly Lys Ala Ser Gln Glu Trp Ala Arg Arg Leu Gly Gln Lys Gly
 145 150 155 160
 Met Lys His

<210> 6872

<211> 380

<212> PRT

<213> Enterobacter cloacae

<400> 6872

Gly Leu Ile His Lys Asn Lys Gly Val Gly Met Ser Ser Gln Ser Gln
 1 5 10 15
 Ala Lys Ser Pro Glu Ala Leu Arg Ala Met Val Ala Gly Thr Leu Ala
 20 25 30
 Asn Phe Gln His Pro Thr Leu Lys His Asn Leu Thr Thr Leu Lys Ala
 35 40 45
 Leu His His Val Ala Trp Leu Asp Asp Thr Leu His Ile Glu Leu Gln
 50 55 60
 Met Pro Phe Val Trp Thr Ser Ala Phe Asp Ala Leu Lys Glu Gln Thr
 65 70 75 80
 Ser Ser Glu Leu Leu Arg Ile Thr Gly Ala Lys Ala Ile Asp Trp Lys
 85 90 95
 Leu Ser His Ser Ile Ala Thr Leu Lys Arg Val Lys Asn Gln Pro Gly
 100 105 110
 Val Asn Gly Val Lys Asn Ile Ile Ala Val Ser Ser Gly Lys Gly Gly
 115 120 125
 Val Gly Lys Ser Ser Thr Ala Val Asn Leu Ala Leu Ala Leu Ala Ala
 130 135 140
 Glu Gly Ala Lys Val Gly Ile Leu Asp Ala Asp Ile Tyr Gly Pro Ser
 145 150 155 160
 Ile Pro Asn Met Leu Gly Ala Glu Asn Gln Arg Pro Thr Ser Pro Asp
 165 170 175
 Gly Thr His Met Ala Pro Ile Val Ala His Gly Leu Ala Thr Asn Ser
 180 185 190
 Ile Gly Tyr Leu Val Thr Asp Asp Asn Ala Met Val Trp Arg Gly Pro
 195 200 205
 Met Ala Ser Lys Ala Leu Leu Gln Met Leu Gln Glu Thr Met Trp Pro
 210 215 220
 Asp Leu Asp Tyr Leu Val Leu Asp Met Pro Pro Gly Thr Gly Asp Ile
 225 230 235 240
 Gln Leu Thr Leu Ala Gln Asn Ile Pro Val Thr Gly Ala Val Val Val
 245 250 255
 Thr Thr Pro Gln Asp Ile Ala Leu Ile Asp Ala Lys Lys Gly Ile Val
 260 265 270
 Met Phe Glu Lys Val Lys Val Pro Val Leu Gly Ile Val Glu Asn Met
 275 280 285

Ser Met His Ile Cys Ser Asn Cys Gly His His Glu Pro Ile Phe Gly
 290 295 300
 Thr Gly Gly Ala Glu Lys Leu Ala Ala Gln Tyr His Thr Gln Leu Leu
 305 310 315 320
 Gly Gln Met Pro Leu His Ile Ser Leu Arg Glu Asp Leu Asp Ser Gly
 325 330 335
 Lys Pro Thr Val Val Ser Arg Pro Asp Ser Glu Phe Ala Gln Met Tyr
 340 345 350
 Arg Gln Leu Ala Gly Arg Val Ala Ala Gln Leu Tyr Trp Gln Gly Glu
 355 360 365
 Val Ile Pro Gly Glu Ile Ala Phe Arg Ala Val
 370 375 380

<210> 6873

<211> 401

<212> PRT

<213> Enterobacter cloacae

<400> 6873

Asn Gly Lys Asn His Phe Gly Thr Tyr Ser Ile Ile Asn Thr Ile Lys
 1 5 10 15
 Arg Tyr Phe Tyr Ser Met Lys Asn Thr Thr Val Phe Ser Ile Leu Phe
 20 25 30
 Leu Ile Ile Thr Pro Leu Ser Gly Cys Val Phe Ser Pro Gly Gln His
 35 40 45
 Leu Asp Leu Ala Gly Lys Gln Val Met Thr Thr Glu Asn Ala Asn Asp
 50 55 60
 Arg Leu Glu Lys Arg Ile Asp Val Tyr Pro Leu Thr Pro Ser Leu Ile
 65 70 75 80
 Glu Lys Leu Arg Pro Ser Ala Leu Lys Ser Gln Ala Asn Pro Lys Leu
 85 90 95
 Asp Glu Gln Val Lys Asn Trp Glu Tyr Arg Ile Gly Val Gly Asp Ile
 100 105 110
 Leu Thr Val Thr Val Trp Asp His Pro Glu Leu Thr Thr Pro Ala Gly
 115 120 125
 Gln Tyr Arg Ser Ala Ser Asp Thr Gly Asn Trp Val Asn Ala Asp Gly
 130 135 140
 Thr Leu Phe Tyr Pro Tyr Val Gly Lys Leu Gln Val Ala Gly Lys Thr
 145 150 155 160
 Val Ala Arg Val Arg Glu Glu Ile Thr Ala Arg Leu Asn Asn Val Ile
 165 170 175
 Glu Ser Pro Gln Val Asp Val Ser Val Ala Ser Phe Arg Ser Gln Lys
 180 185 190
 Ala Tyr Val Thr Gly Glu Val Val Lys Ser Gly Gln Gln Ala Ile Thr
 195 200 205
 Asn Ile Pro Leu Thr Val Met Asp Ala Val Asn Ala Ala Gly Gly Leu
 210 215 220
 Ser Ala Asp Ala Asp Trp Arg Asn Val Val Leu Thr His Asn Gly Lys
 225 230 235 240
 Asp Met Arg Leu Ser Leu Tyr Ala Leu Met Gln His Gly Asp Leu Thr
 245 250 255
 Gln Asn Lys Leu Leu Tyr Pro Gly Asp Ile Leu Phe Val Pro Arg Asn
 260 265 270
 Asp Ala Leu Lys Val Phe Val Met Gly Glu Val Val Lys Gln Ser Thr
 275 280 285
 Leu Lys Met Asp Arg Ser Gly Met Thr Leu Ala Glu Ala Leu Gly Asn
 290 295 300
 Ala Gly Gly Leu Asn Gln Asn Met Ala Asp Ala Thr Gly Ile Phe Val
 305 310 315 320
 Ile Arg Ser Leu Pro Lys Ser Glu Arg Ser Glu Lys Ile Ala Asn Ile
 325 330 335

Tyr Gln Leu Asn Ala Gln Asp Ala Ser Ala Met Val Leu Gly Thr Glu
 340 345 350
 Phe Gln Leu Glu Pro Tyr Asp Ile Val Tyr Val Thr Thr Ala Pro Leu
 355 360 365
 Ser Arg Trp Asn Arg Val Ile Ser Gln Leu Val Pro Thr Ile Ser Gly
 370 375 380
 Val His Asp Leu Thr Glu Thr Val Arg Tyr Ile Arg Ser Trp Pro Gln
 385 390 395 400

<210> 6874

<211> 280

<212> PRT

<213> Enterobacter cloacae

<400> 6874

Ala Ile Thr Asp Ala Gln Met Lys Asp Ser Ile Ser Asn Tyr Ile Leu
 1 5 10 15
 Ser Trp Val Glu Asn Asn Phe Thr Ile Leu His Ile Gly Asp Leu
 20 25 30
 Val Ala Asp Ile Gly Tyr Ser Arg Arg Thr Ile Glu Thr Trp Phe Lys
 35 40 45
 Glu Lys Tyr Arg Leu Ser Leu Gly Glu Tyr Ile Leu Arg Arg Arg Leu
 50 55 60
 Ser Arg Ala Ala Ile Met Leu Arg Met Thr Ser Ile Pro Val Thr Asp
 65 70 75 80
 Ile Ala Tyr Leu Phe His Tyr Gln Ser Ser Gln Gly Phe Ser Arg Ala
 85 90 95
 Phe Lys Lys Met Met Gly Leu Thr Pro Ser Glu Tyr Arg Cys Ala Arg
 100 105 110
 Gly Trp Asn Phe Asp Ile Leu Gln Pro Ser Phe Leu Leu Ser Glu His
 115 120 125
 Glu Thr Pro Glu Leu Glu Val Cys Tyr Leu Asp Glu Thr Phe Ile Tyr
 130 135 140
 Thr His Glu Phe Ile Glu His Asp His Leu Phe Asp Thr Ser Val His
 145 150 155 160
 Asp Ile Thr Lys Lys Ile Lys Lys Leu Leu Thr Glu Asn Arg His Asp
 165 170 175
 Ile Asp Lys Ile Ile Leu Met Pro Arg Arg Pro Glu Leu Gly Lys Ser
 180 185 190
 Arg Ser Tyr Leu Val Glu Val Leu Ile Ser Tyr Ala Leu Gln Ser Asp
 195 200 205
 Thr Val Thr Asn Lys Lys Ser Cys Ile Val Arg Gly Arg Tyr Ala Arg
 210 215 220
 Met Pro Phe Ser Gly Ser Trp Glu Ile Tyr Ser Ala Phe Asn Lys Ile
 225 230 235 240
 Ala Phe Val Lys Ala Met Val Asn Gln Arg Leu Thr Leu Arg Asp Gly
 245 250 255
 Ile Tyr Leu Met Lys Ile Asn Gly Tyr Ser Asp Glu Cys Val Asp Phe
 260 265 270
 Asp Val Phe Ile Pro Ile Leu
 275 280

<210> 6875

<211> 254

<212> PRT

<213> Enterobacter cloacae

<400> 6875

Met Asp Ala Met Asn Ser Arg Gln Gln Ile Ile Leu Gln Met Val Ile

```

1           5           10           15
Asp Gln Gly Arg Val Ser Val Val Asp Leu Ala Lys Ala Thr Gly Val
      20           25           30
Ser Glu Val Thr Ile Arg Gln Asp Leu Asn Leu Leu Glu Lys Gln Ser
      35           40           45
Tyr Leu Arg Arg Ala His Gly Tyr Ala Val Pro Leu Asp Ser Asp Asp
      50           55           60
Val Glu Thr Arg Met Met Asn Asn Tyr Ala Leu Lys Arg Glu Leu Ala
65           70           75           80
Glu Phe Ala Ala Ser Leu Val Asn Asn Gly Glu Thr Val Phe Ile Glu
      85           90           95
Asn Gly Ser Ser Asn Ala Leu Leu Ala Arg Thr Leu Ala Asp Gln Lys
      100          105          110
Asp Val Thr Ile Ile Thr Val Ser Ser Tyr Ile Ala His Leu Leu Lys
      115          120          125
Asp Thr Arg Cys Glu Val Ile Leu Leu Gly Gly Ile Tyr Gln Lys Lys
      130          135          140
Ser Glu Ser Met Val Gly Pro Leu Thr Arg Gln Tyr Val Gln Gln Val
145          150          155          160
His Phe Ser Lys Ala Phe Ile Gly Ile Asp Gly Trp Gln Pro Asp Thr
      165          170          175
Gly Phe Thr Gly Arg Asp Met Met Arg Ser Asp Val Val Asn Ala Val
      180          185          190
Leu Ala Lys Glu Cys Glu Ala Ile Val Leu Thr Asp Ser Ser Lys Phe
      195          200          205
Gly Ala Val His Pro Tyr Thr Met Gly Pro Ala Ser Arg Phe Ser Arg
      210          215          220
Val Ile Thr Asp Glu Arg Leu Arg Asp Glu Tyr Arg Gln Gln Leu Glu
225          230          235          240
Gln Asp Gly Leu Thr Val Asp Ile Val Lys Lys Thr Ala
      245          250

```

<210> 6876

<211> 81

<212> PRT

<213> Enterobacter cloacae

<220>

<221> UNSURE

<222> (53)

<400> 6876

```

Gln Val Ala Leu Asp Asn Leu Arg Ala Thr Leu Ala Ala Ala Gly Cys
1           5           10           15
Thr Phe Asp Asp Leu Ile Asp Val Lys Thr Phe His Thr Asp Pro Glu
      20           25           30
Asn Gln Phe Pro Ala Ile Met Glu Ala Lys Lys Leu Ala Phe Pro His
      35           40           45
Pro Pro Tyr Pro Xaa Trp Thr Ala Ile Gly Val Asn Trp Leu Ala Gly
50           55           60
Phe Asp Phe Glu Ile Lys Val Ile Ala Arg Ile Pro Thr Pro Ala Asn
65           70           75           80

```

<210> 6877

<211> 334

<212> PRT

<213> Enterobacter cloacae

<400> 6877


```

Asp Gln Gly Thr Pro Met Glu Gln Arg Arg Phe Ser Gly Lys Gly His
1      5      10      15
Trp Tyr His Glu Thr Gln Ser Asn His Ser Gln Thr Asp Val Leu Pro
20      25      30
Leu Val Pro Glu Ala Ala Asn Val Asp Asp Arg Phe Leu Leu Asp Leu
35      40      45
Ala Leu Pro Asp Asp Ile Leu Ala Ser Cys Ala Gly Trp Leu Ala Pro
50      55      60
Ala Arg Thr Leu Cys His Leu Leu Phe Pro Leu Asp Thr Pro Val Ser
65      70      75      80
Arg Leu His Thr Leu Ser Ala Tyr Asp Arg Leu Ser Thr Ala Leu Thr
85      90      95
Val Ala Gln Ala Cys Gly Val Gln Arg Leu Cys Asn His Tyr Ala Ala
100     105     110
Leu Leu Ala Pro Leu Pro Gly Pro Asp Ser Ser Arg Glu Ser Asn Arg
115     120     125
Arg Leu Ala Glu Ile Thr Gln Tyr Ala Arg Gln Leu Ala Ser Ser Pro
130     135     140
Asp Val Ile Asp Asp Lys Ala Gln Asn Gln Leu Asp Glu Val Gly Leu
145     150     155     160
Thr Thr Tyr Asp Ile Val Leu Ile Asn Gln Ile Ile Gly Phe Val Gly
165     170     175
Phe Gln Ala Arg Val Val Ala Val Phe Gln Ala Leu Leu Gly His Pro
180     185     190
Val Arg Trp Leu Pro Gly His His Ile Gln Pro His Thr Leu Pro Val
195     200     205
Ser Phe Ser Arg Trp Thr Ala Thr Leu Pro Ala Val Glu Leu Lys Tyr
210     215     220
Ala Ser Ala Leu Gln Leu Glu Ala Leu Ser Arg Trp Gln Ala Glu Pro
225     230     235     240
Ala Leu Glu Ala Leu Thr Pro Val Leu Cys His Glu Pro Met Leu Leu
245     250     255
Asn Leu Thr Gly Glu Ile Leu Leu Asn His Pro Leu Ser Glu Gly Pro
260     265     270
Ala Ser Ser Met Ile Ser Ala Ala Leu Ala Leu Leu Val Ala Ser Pro
275     280     285
Asp Arg Phe Ser Ala Thr Gln Leu Thr Pro Leu Thr Gly Ser Gly Leu
290     295     300
Ser Pro Glu Lys Ala Ile Asn Leu Leu Thr Arg Asp Ala Phe Tyr Gly
305     310     315     320
Trp Leu Asn Arg Leu Arg Val Ala Leu Gly Lys Glu Glu
325     330

```

<210> 6878

<211> 271

<212> PRT

<213> Enterobacter cloacae

<400> 6878

```

Ala Met Asn Ile Arg Ile Lys Ala Met Gly Phe Leu Ser Gly Lys Arg
1      5      10      15
Ile Leu Val Thr Gly Val Ala Ser Lys Leu Ser Ile Ala Tyr Gly Ile
20      25      30
Ala Gln Ala Met His Arg Glu Gly Ala Glu Leu Ala Phe Thr Tyr Gln
35      40      45
Asn Asp Lys Leu Lys Gly Arg Val Glu Glu Phe Ala Ala Gln Leu Gly
50      55      60
Ser Ser Ile Val Leu Glu Cys Asp Val Ala Gln Asp Glu Ser Ile Asp
65      70      75      80
Gly Met Phe Ala Glu Leu Ala Lys Ala Trp Pro Lys Phe Asp Gly Phe
85      90      95

```

Val His Ser Ile Gly Phe Ala Pro Gly Asp Gln Leu Asp Gly Asp Tyr
 100 105 110
 Val Asn Ala Val Thr Arg Asp Gly Phe Lys Ile Ala His Asp Ile Ser
 115 120 125
 Ser Tyr Ser Phe Val Ala Met Ala Lys Ser Cys Arg Ala Met Leu Asn
 130 135 140
 Pro Gly Ala Ala Leu Leu Thr Leu Ser Tyr Leu Gly Ala Glu Arg Ala
 145 150 155 160
 Ile Pro Asn Tyr Asn Val Met Gly Leu Ala Lys Ala Ser Leu Glu Ala
 165 170 175
 Asn Val Arg Tyr Met Ala Asn Ala Met Gly Pro Glu Gly Val Arg Val
 180 185 190
 Asn Ala Ile Ser Ala Gly Pro Ile Arg Thr Leu Ala Ala Ser Gly Ile
 195 200 205
 Lys Asp Phe Arg Lys Met Leu Ala His Cys Glu Ala Val Thr Pro Ile
 210 215 220
 Arg Arg Thr Val Thr Ile Glu Asp Val Gly Asn Ser Ala Ala Phe Leu
 225 230 235 240
 Cys Ser Asp Leu Ser Ala Gly Ile Ser Gly Glu Val Val His Val Asp
 245 250 255
 Gly Gly Phe Asn Ile Ala Ala Met Asn Glu Leu Glu Ile Lys
 260 265 270

<210> 6879

<211> 647

<212> PRT

<213> Enterobacter cloacae

<400> 6879

Asn Ile Met Phe Gln Asp Asn Pro Leu Leu Ala Gln Leu Lys Gln Gln
 1 5 10 15
 Leu His Ser Gln Thr Pro Arg Ala Glu Gly Val Val Lys Ala Thr Glu
 20 25 30
 Lys Gly Phe Gly Phe Leu Glu Val Asp Gly Gln Lys Ser Tyr Phe Ile
 35 40 45
 Pro Pro Pro Gln Met Lys Lys Val Met His Gly Asp Arg Ile Ser Ala
 50 55 60
 Val Ile His Thr Glu Lys Glu Arg Glu Ser Ala Glu Pro Glu Ala Leu
 65 70 75 80
 Ile Glu Pro Phe Leu Thr Arg Phe Val Gly Lys Val His Lys Lys Asp
 85 90 95
 Asp Arg Leu Ser Val Val Pro Asp His Pro Leu Leu Lys Asp Ala Ile
 100 105 110
 Pro Cys Arg Ala Ala Arg Gly Val Glu His Asp Phe Val Glu Gly Asp
 115 120 125
 Trp Ala Val Ala Glu Met Arg Arg His Pro Leu Lys Gly Asp Arg Gly
 130 135 140
 Phe Tyr Ala Glu Leu Thr Gln Tyr Ile Thr Phe Gly Asp Asp His Phe
 145 150 155 160
 Val Pro Trp Trp Val Thr Leu Ala Arg His Asn Leu Glu Lys Glu Ala
 165 170 175
 Pro Asp Gly Val Ala Thr Glu Met Gln Asp Glu Gly Leu Glu Arg Arg
 180 185 190
 Asp Leu Thr Ala Leu Asp Phe Val Thr Ile Asp Ser Ala Ser Thr Glu
 195 200 205
 Asp Met Asp Asp Ala Leu Tyr Ala Glu Glu Thr Ala Asp Gly Lys Leu
 210 215 220
 His Leu Thr Val Ala Ile Ala Asp Pro Thr Ala Trp Ile Val Glu Gly
 225 230 235 240
 Ser Lys Leu Asp Glu Met Ala Lys Val Arg Ser Phe Thr Asn Tyr Leu
 245 250 255

Pro Gly Phe Asn Ile Pro Met Leu Pro Arg Glu Leu Ser Asp Asp Leu
 260 265 270
 Cys Ser Leu Arg Ala His Glu Val Arg Pro Val Leu Ala Cys Arg Met
 275 280 285
 Thr Ile Ala Ala Asp Gly Thr Ile Glu Glu Asp Ile Glu Phe Phe Ala
 290 295 300
 Ala Thr Ile Glu Ser Lys Ala Lys Leu Ala Tyr Asp Asp Val Ser Asp
 305 310 315 320
 Trp Leu Glu Asn Thr Gly Asn Trp Lys Pro Glu Ser Asp Asn Ile Ala
 325 330 335
 Ala Gln Ile Arg Leu Leu His Arg Val Cys Leu Ser Arg Ser Glu Trp
 340 345 350
 Arg Gln Thr His Ala Leu Val Phe Lys Asp Arg Pro Asp Tyr Arg Phe
 355 360 365
 Val Leu Gly Glu Lys Gly Glu Val Leu Asn Ile Val Ala Glu Pro Arg
 370 375 380
 Arg Ile Ala Asn Arg Ile Val Glu Glu Ala Met Ile Ser Ala Asn Ile
 385 390 395 400
 Cys Ala Ala Arg Val Leu Arg Asp Lys Leu Gly Phe Gly Ile Tyr Asn
 405 410 415
 Val His Thr Gly Phe Asp Pro Ala Asn Thr Glu Ala Leu Ala Ala Leu
 420 425 430
 Leu Lys Thr His Asp Val His Val Asp Pro Glu Glu Val Leu Thr Leu
 435 440 445
 Gln Gly Phe Cys Lys Leu Arg Arg Glu Leu Asp Ala Gln Pro Ser Gly
 450 455 460
 Phe Leu Asp Ser Arg Ile Arg Arg Phe Gln Ser Phe Ala Glu Ile Ser
 465 470 475 480
 Thr Glu Pro Gly Pro His Phe Gly Leu Gly Leu Glu Ala Tyr Ala Thr
 485 490 495
 Trp Thr Ser Pro Ile Arg Lys Tyr Gly Asp Met Val Asn His Arg Leu
 500 505 510
 Leu Lys Ala Ile Ile Lys Gly Glu Ser Val Ala Arg Pro Gln Asp Gly
 515 520 525
 Thr Thr Leu Gln Met Ala Glu Arg Arg Arg Leu Asn Arg Met Ala Glu
 530 535 540
 Arg Asp Val Gly Asp Trp Leu Tyr Ala Arg Phe Leu Asn Asp Lys Ala
 545 550 555 560
 Gly Thr Asp Thr Arg Phe Pro Ala Glu Ile Ile Asp Ile Ser Arg Gly
 565 570 575
 Gly Met Arg Val Arg Leu Val Asp Asn Gly Ala Val Ala Phe Ile Pro
 580 585 590
 Ala Pro Phe Leu His Ala Val Arg Asp Glu Leu Val Cys Ser Gln Glu
 595 600 605
 Asn Gly Thr Val Gln Ile Lys Gly Glu Thr Val Tyr Lys Val Thr Asp
 610 615 620
 Val Ile Asp Val Thr Ile Ala Glu Val Arg Met Glu Thr Arg Ser Ile
 625 630 635 640
 Ile Ala Arg Pro Val Ala
 645

<210> 6880

<211> 675

<212> PRT

<213> Enterobacter cloacae

<400> 6880

Phe Val Arg Tyr Ser Ala Ala Ala Gly Glu Asn Val Met Asp Asp Leu
 1 5 10 15
 Glu Gln Asn Leu Leu Phe Arg Tyr Met Gly Thr His Ser Pro Trp Trp
 20 25 30

Arg Leu Thr Ala Asp Ser Asn Ala Leu His Leu Ala Ala Ser Glu Ser
 35 40 45
 Ala Asp Ile Ile Gln Val Val Ala Leu Asp Asp Glu Gln Ala Ala Leu
 50 55 60
 Ile Arg Gln Leu Thr Val Ile Thr Ser Ser Ile Ala Met Thr Leu Pro
 65 70 75 80
 Leu Tyr Gly Val Asp Val Pro Val His Leu Val Gly Arg Lys Ile Asn
 85 90 95
 Lys Asn Glu Trp Ala Gly Thr Ala Ser Ala Trp Asn Asp Thr Pro Ser
 100 105 110
 Val Ala Arg Asp Leu Ala Gln Gly Leu Ser Phe Ala Glu Gln Val Val
 115 120 125
 Ser Glu Ala Asn Ser Val Ile Val Ile Leu Asp Gln Asn Gly Asn Ile
 130 135 140
 Gln Arg Phe Asn Arg Leu Ser Glu Glu Tyr Thr Gly Leu Lys Glu Gln
 145 150 155 160
 Glu Val Ile Gly Gln Asn Val Phe Lys Leu Phe Met Ser Arg Ser Glu
 165 170 175
 Ala Ala Ala Ser Lys Arg Asn Ile Thr Gly Phe Phe Arg Asn Gly Ser
 180 185 190
 Ser Tyr Glu Val Glu Arg Trp Ile Lys Thr Arg Lys Gly Gln Arg Leu
 195 200 205
 Phe Leu Phe Arg Asn Lys Phe Val His Ser Gly Ser Gly Lys Asn Glu
 210 215 220
 Ile Phe Leu Ile Cys Ser Gly Thr Asp Ile Thr Glu Glu Arg Arg Ala
 225 230 235 240
 Gln Glu Arg Leu Arg Val Leu Ala Asn Thr Asp Thr Ile Thr Gly Leu
 245 250 255
 Pro Asn Arg Asn Ala Ile His Glu Leu Ile Ser Asp Ala Ile Thr Ala
 260 265 270
 Arg Gly Asp Thr Gln Val Gly Val Val Tyr Leu Asp Leu Asp Asn Phe
 275 280 285
 Lys Lys Val Asn Asp Ala Tyr Gly His Met Phe Gly Asp Gln Leu Leu
 290 295 300
 Gln Ala Val Ala Leu Ala Ile Leu Ser Cys Leu Asp Glu Gly Gln Thr
 305 310 315 320
 Leu Ala Arg Leu Gly Gly Asp Glu Phe Ile Val Met Ala Thr Asp Thr
 325 330 335
 Ser Gln Gly Ala Leu Glu Ala Met Ala Ser Arg Ile Leu Thr Arg Leu
 340 345 350
 Arg Gln Pro Phe Arg Ile Gly Leu Ile Glu Val Tyr Thr Gly Cys Ser
 355 360 365
 Leu Gly Ile Ala Leu Ala Pro Gln His Gly Asn Asp Arg Glu Ser Val
 370 375 380
 Ile Arg Asn Ala Asp Thr Ala Met Tyr Thr Ala Lys Glu Asn Gly Arg
 385 390 395 400
 Gly Lys Phe Cys Val Phe Ser Pro Glu Met Asn Gln Arg Val Phe Glu
 405 410 415
 Tyr Leu Trp Leu Asp Thr Asn Leu Arg Lys Ala Leu Asp Asn Asp Gln
 420 425 430
 Leu Leu Ile His Tyr Gln Pro Lys Met Thr Trp Arg Gly Glu Val Arg
 435 440 445
 Ser Leu Glu Ala Leu Val Arg Trp Gln Ser Pro Glu Arg Gly Leu Ile
 450 455 460
 Pro Pro Met Glu Phe Ile Ser Tyr Ala Glu Glu Ser Gly Leu Ile Val
 465 470 475 480
 Pro Leu Gly Arg Trp Val Met Leu Asp Val Val Arg Gln Val Ala Lys
 485 490 495
 Trp Arg Asp Lys Gly Ile Asn Met Arg Val Ala Val Asn Val Ser Ala
 500 505 510
 Arg Gln Leu Ala Asp Gln Thr Ile Phe Ser Asp Leu Lys Gln Ala Leu

515 520 525
 Lys Asp Leu Asn Phe Glu Tyr Cys Pro Ile Asp Val Glu Leu Thr Glu
 530 535 540
 Ser Cys Leu Ile Glu Asn Glu Glu Leu Ala Leu Ser Val Ile Gln Gln
 545 550 555 560
 Phe Ser Arg Leu Gly Ala Gln Ile His Leu Asp Asp Phe Gly Thr Gly
 565 570 575
 Tyr Ser Ser Leu Ser Gln Leu Ala Arg Phe Pro Ile Asp Ala Ile Lys
 580 585 590
 Leu Asp Gln Ser Phe Val Arg Asp Ile His Lys Gln Ser Ile Ser Gln
 595 600 605
 Ser Leu Val Arg Ala Ile Val Ala Val Ala Gln Ala Leu Asn Leu Gln
 610 615 620
 Val Ile Ala Glu Gly Val Glu Ser Ala Lys Glu Asp Ala Phe Leu Thr
 625 630 635 640
 Lys Asn Gly Val Asn Glu Arg Gln Gly Tyr Leu Phe Ala Lys Pro Met
 645 650 655
 Pro Ala Ala Ala Phe Glu Arg Trp Leu Lys Arg Tyr Gln Thr Arg Asn
 660 665 670
 Val Arg
 675

<210> 6881

<211> 81

<212> PRT

<213> Enterobacter cloacae

<400> 6881

Ile Asp Asn Ser Gly Glu Ser Ile Met Thr Phe Thr Ser Lys Lys Leu
 1 5 10 15
 Ala Ala Ala Val Val Ala Ile Thr Val Ala Met Ser Leu Ser Ala Cys
 20 25 30
 Ser Asn Trp Ser Lys Arg Asp Arg Asn Thr Ala Ile Gly Ala Gly Ala
 35 40 45
 Gly Ala Leu Gly Gly Ala Val Leu Thr Asp Asp Ser Thr Leu Gly Thr
 50 55 60
 Leu Gly Gly Ala Ala Val Gly Gly Ile Ile Gly His Gln Val Gly Lys
 65 70 75 80

<210> 6882

<211> 117

<212> PRT

<213> Enterobacter cloacae

<400> 6882

Cys Ile Thr Glu Lys Gly Gly Ile Met Arg Asp Ala Asn Ser Arg Leu
 1 5 10 15
 Val Tyr Ser Thr Asp Thr Gly Arg Ile Glu Glu Pro Lys Glu Lys Ala
 20 25 30
 Glu Arg Pro Lys Gly Asp Gly Ile Val Arg Ile Gln Arg Gln Thr Ser
 35 40 45
 Gly Arg Lys Gly Lys Gly Val Cys Leu Val Thr Gly Ile Asp Leu Asp
 50 55 60
 Asp Ala Asp Leu Val Lys Leu Ala Ala Glu Leu Lys Lys Lys Cys Gly
 65 70 75 80
 Cys Gly Gly Ala Val Lys Asp Gly Ile Ile Glu Ile Gln Gly Asp Lys
 85 90 95
 Arg Asp Leu Ile Lys Thr Leu Leu Glu Ala Lys Gly Met Lys Val Lys
 100 105 110

Leu Ala Gly Gly
115

<210> 6883

<211> 290

<212> PRT

<213> Enterobacter cloacae

<400> 6883

Gly Gly Gly Arg Leu Phe Phe Ile Pro Ala Val Lys Thr Phe Asp Ser
1 5 10 15
Val His Leu Pro Arg Gly Gln Val Glu Cys Thr Pro Phe Ile Cys Ser
20 25 30
Ala Pro Leu Arg Ala His Arg Arg Lys Gly Leu Val Met Thr Ser Val
35 40 45
Thr Ser Ser Thr Ser Arg Val Val Thr Asp Ser Pro Val Val Val Ala
50 55 60
Leu Asp Tyr Asn Asn Arg Asp Ala Ala Leu Ala Phe Val Asp Gly Ile
65 70 75 80
Asp Pro Arg Asp Cys Arg Leu Lys Val Gly Lys Glu Met Phe Thr Leu
85 90 95
Phe Gly Pro Gln Ile Val Arg Asp Leu His Gln Arg Gly Phe Asp Val
100 105 110
Phe Leu Asp Leu Lys Phe His Asp Ile Pro Asn Thr Thr Ala His Ala
115 120 125
Val Ala Ala Ala Ala Glu Leu Gly Val Trp Met Val Asn Val His Ala
130 135 140
Ser Gly Gly Ala Arg Met Met Thr Ala Ala Arg Glu Ala Leu Val Pro
145 150 155 160
Phe Gly Asn Asp Ala Pro Leu Leu Ile Ala Val Thr Val Leu Thr Ser
165 170 175
Met Asp Glu Ser Asp Leu Arg Asp Leu Gly Val Thr Leu Ser Pro Ala
180 185 190
Glu His Ala Glu Arg Leu Ala Arg Leu Thr Gln Gln Cys Gly Leu Asp
195 200 205
Gly Val Phe Cys Ser Ala Gln Glu Ala Val Arg Phe Lys Ser Glu Leu
210 215 220
Gly Arg Asp Phe Lys Leu Val Thr Pro Gly Ile Arg Pro Ala Gly Ser
225 230 235 240
Glu Ser Gly Asp Gln Arg Arg Ile Met Thr Pro Glu Gln Ala Leu Ser
245 250 255
Ala Gly Val Asp Tyr Met Val Ile Gly Arg Pro Val Thr Gln Ser Ala
260 265 270
His Pro Ala Glu Thr Leu Lys Ala Ile Asn Ala Ser Leu Lys Lys Gly
275 280 285
Ala
290

<210> 6884

<211> 469

<212> PRT

<213> Enterobacter cloacae

<400> 6884

Asn Cys Ala Arg Val Asp Asn Gly Tyr Ala Ile Leu Arg Leu Tyr Leu
1 5 10 15
Cys Ala Val Arg Arg Lys Met Lys Asn Ile Thr Leu Ala Glu Lys Leu
20 25 30
Ile Met Leu Ser Gly Ala Ala Leu Phe Ala Leu Ile Ile Ala Val Asn
35 40 45
Ser Phe Cys Val Asn Asp Asn Pro Gly Phe Arg Val Pro Met Thr Thr

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<210> 6885
<211> 305
<212> PRT
<213> Enterobacter cloacae
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Ser Lys Thr Ala Arg Asn Ala Leu Phe Tyr Lys Arg Asn Ser Thr Met

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1           5           10           15
Thr Val Ile Asn Gln Thr Thr Cys Thr Leu Phe Thr Asp Ala Glu Arg
20           25           30
Phe Thr Gln Leu Ala Ala Tyr Tyr Glu Ala Glu Arg Arg Thr Val Trp
35           40           45
Met Met Leu Arg Ala Thr Pro Arg Pro Cys Phe Asn His Ala Leu Ile
50           55           60
Glu Glu Ile Met Asn Leu Ser Trp Leu Val Arg Gln Ser Gly Phe Val
65           70           75           80
Val Asp Phe Trp Val Thr Gly Ser Leu Val Pro Asp Ile Tyr Asn Thr
85           90           95
Gly Gly Asp Leu Gln Phe Phe Val Glu Cys Ile Lys Asn Asn Arg Arg
100          105          110
Glu Ala Leu Arg Ala Tyr Ala Arg Ala Cys Val Asp Cys Val His Ala
115          120          125
Ala Ser Arg Gly Phe Asp Thr Gly Ala Val Thr Leu Ala Met Val Glu
130          135          140
Gly Ser Ala Leu Gly Gly Gly Phe Glu Ala Ala Leu Ala His His Phe
145          150          155          160
Ile Leu Ala Gln Arg Asp Ala Arg Leu Gly Phe Pro Glu Ile Ala Phe
165          170          175
Asn Leu Phe Pro Gly Met Gly Gly Tyr Ser Leu Val Ala Arg Arg Ala
180          185          190
Gly Met Lys Met Ala Glu Ala Leu Ile Tyr Lys Gly Glu Thr His Thr
195          200          205
Ala Glu Trp Tyr Glu Gln His Gly Leu Val Asp Leu Leu Phe Glu Pro
210          215          220
Leu Gln Ser Tyr Val Ser Val Arg Thr Phe Ile Asp Thr Leu Gln Pro
225          230          235          240
Lys Leu Asn Gly Val Arg Ala Met Leu Arg Ala Arg Thr Arg Val Leu
245          250          255
Pro Leu Pro Arg Ser Glu Leu Met Asp Ile Thr Glu Asp Trp Val Asp
260          265          270
Ala Ala Phe Cys Leu Glu Pro Lys Asp Ile Ala Tyr Met Glu Arg Leu
275          280          285
Val Met Leu Gln Asn Arg His Gln Ala Thr Gly Leu Arg Lys Ala Ser
290          295          300

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305

<210> 6886

<211> 441

<212> PRT

<213> Enterobacter cloacae

<400> 6886

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Asn Ser Leu Leu Asn Leu Phe Leu Arg Thr Arg Asn Asp Ala Met Ser
1           5           10           15
Lys Ser Glu Asn Leu Tyr Ser Ala Ala Arg Glu Leu Ile Pro Gly Gly
20           25           30
Val Asn Ser Pro Val Arg Ala Phe Thr Gly Val Gly Gly Thr Pro Leu
35           40           45
Phe Ile Glu Arg Ala Asp Gly Ala Tyr Leu Tyr Asp Val Asp Gly Lys
50           55           60
Ala Tyr Val Asp Tyr Val Gly Ser Trp Gly Pro Met Val Leu Gly His
65           70           75           80
Asn His Pro Ala Ile Arg Asn Ala Val Ile Glu Ala Ala Gln Arg Gly
85           90           95
Leu Ser Phe Gly Ala Pro Thr Glu Met Glu Val Lys Met Ala Glu Leu
100          105          110
Val Thr Glu Leu Val Pro Thr Met Asp Met Val Arg Met Val Asn Ser

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      115              120              125
Gly Thr Glu Ala Thr Met Ser Ala Ile Arg Leu Ala Arg Gly Phe Thr
130              135              140
Gly Arg Asp Lys Ile Ile Lys Phe Glu Gly Cys Tyr His Gly His Ala
145              150              155              160
Asp Cys Leu Leu Val Lys Ala Gly Ser Gly Ala Leu Thr Leu Gly Gln
165              170              175
Pro Asn Ser Pro Gly Val Pro Ala Asp Phe Ala Lys His Thr Leu Thr
180              185              190
Cys Thr Tyr Asn Asp Leu Asp Thr Val Arg Ala Ala Phe Glu Gln Tyr
195              200              205
Pro Gln Glu Ile Ala Cys Ile Ile Val Glu Pro Val Ala Gly Asn Met
210              215              220
Asn Cys Ile Pro Pro Gln Pro Asp Phe Leu Pro Gly Leu Arg Ala Leu
225              230              235              240
Cys Asp Glu Phe Gly Ala Leu Leu Ile Ile Asp Glu Val Met Thr Gly
245              250              255
Phe Arg Val Ala Leu Ala Gly Ala Gln Ser Tyr Tyr Gly Val Glu Pro
260              265              270
Asp Leu Thr Cys Leu Gly Lys Ile Ile Gly Gly Gly Met Pro Val Gly
275              280              285
Ala Phe Gly Gly Arg Lys Asp Val Met Asp Ala Leu Ala Pro Thr Gly
290              295              300
Pro Val Tyr Gln Ala Gly Thr Leu Ser Gly Asn Pro Ile Ala Met Ala
305              310              315              320
Ala Gly Phe Ala Cys Leu Thr Glu Val Ala Gln Pro Gly Ile His Gln
325              330              335
Thr Leu Thr Asp Arg Thr Thr Gln Leu Ala Asn Gly Leu Leu Glu Ala
340              345              350
Ala Glu Asp Ala Gly Ile Pro Leu Val Val Asn His Val Gly Gly Met
355              360              365
Phe Gly Ile Phe Phe Thr Glu Ala Lys Thr Val Thr Cys Tyr Gln Asp
370              375              380
Val Val Lys Cys Asp Val Glu Arg Phe Lys Arg Phe Phe His Leu Met
385              390              395              400
Leu Glu Glu Gly Val Tyr Leu Ala Pro Ser Ala Phe Glu Ala Gly Phe
405              410              415
Met Ser Val Ala His Ser Glu Glu Asp Ile Asn Asn Thr Ile Asp Ala
420              425              430
Ala Arg Lys Val Phe Ala Lys Leu
435              440

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<210> 6887

<211> 195

<212> PRT

<213> Enterobacter cloacae

<400> 6887

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Met Leu Tyr Gln Ser Phe Pro Gln Ala Glu Arg Ala Val Pro Ala Gln
1      5      10      15
Ala Ala Tyr Met Thr Leu Trp Thr Met Gln Gln Val Val Gln Arg Gly
20     25     30
Thr Gly Arg Gln Leu Gly Ala Lys Tyr Pro Gly Leu His Leu Ala Gly
35     40     45
Lys Thr Gly Thr Thr Asn Asn Asn Val Asp Thr Trp Phe Ala Gly Ile
50     55     60
Asp Gly Arg Glu Val Val Ile Thr Trp Val Gly Arg Asp Asn Asn Gln
65     70     75     80
Pro Thr Lys Leu Tyr Gly Ala Ser Gly Ala Met Ser Ile Tyr Gln Arg
85     90     95
Tyr Leu Ala Asn Gln Ser Pro Val Pro Leu Asn Leu Val Ala Pro Glu

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```
<210> 6888
<211> 778
<212> PRT
<213> Enterobacter cloacae
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<400>	6888														
Thr 1	Leu	Asn	Ser	Cys 5	Arg	Ala	Ala	Tyr	Arg 10	Leu	Leu	Cys	Arg	Gln 15	Arg
Phe	Ala	Tyr	Tyr 20	Ser	Ala	Val	Ile	Ile 25	Ile	Ile	Leu	Val	Tyr 30	Val	Ile
Ile	His	Leu 35	Phe	His	Gln	Arg	Ser 40	Ile	Met	Ala	Leu	Ser 45	Asn	Thr	Ala
Gln	Pro 50	Ile	Asn	Thr	Ser	Leu 55	Arg	Lys	Leu	Ala	Val 60	Val	Val	Ala	Thr
Ala 65	Val	Ala	Gly	Met	Ser 70	Ala	Tyr	Ala	Gln 75	Ala	Ala	Glu	Thr	Pro	Lys 80
Lys	Glu	Glu	Thr 85	Ile	Thr	Val	Thr	Ala 90	Ala	Pro	Ala	Ala	Gln 95	Glu	Ser
Ala	Trp	Gly	Pro 100	Ala	Pro	Thr	Ile	Ala 105	Ala	Lys	Arg	Thr	Ala 110	Thr	Ala
Thr	Lys	Thr 115	Asp	Thr	Pro	Ile	Glu 120	Lys	Thr	Pro	Gln	Ser 125	Ile	Ser	Val
Val	Thr 130	Arg	Glu	Glu	Met	Asp 135	Met	Lys	Gln	Pro	Gly 140	Thr	Val	Lys	Gln
Ala 145	Leu	Ala	Tyr	Thr	Pro 150	Ser	Val	Phe	Ala	Thr 155	Arg	Gly	Ala	Ser	Thr
Thr	Tyr	Asp	Val 165	Val	Ser	Ile	Arg	Gly 170	Phe	Thr	Thr	Ser	Ser 175	Thr	Val
Asn	Thr	Asn 180	Gln	Tyr	Leu	Asp	Gly	Met 185	Lys	Leu	Gln	Gly 190	Asp	Asn	Tyr
Ser	Glu	Ala 195	Ser	Met	Asp	Pro	Tyr 200	Phe	Leu	Glu	Arg	Val 205	Glu	Leu	Leu
Arg	Gly 210	Pro	Thr	Ser	Val	Leu 215	Tyr	Gly	Lys	Ser	His 220	Pro	Gly	Gly	Val
Val 225	Ser	Met	Val	Ser	Lys 230	Arg	Pro	Thr	Thr	Glu	Pro	Leu	Lys	Glu	Ile
Gln	Phe	Lys	Met 245	Gly	Thr	Asp	Asn	Leu 250	Trp	Gln	Thr	Gly	Phe	Asp	Phe
Ser	Asp	Ala 260	Ile	Asp	Asp	Asp	Gly	Val 265	Trp	Ser	Tyr	Arg	Leu	Thr	Gly
Leu	Gly	Arg 275	Ser	Glu	Asn	Ala	Gln 280	Gln	Glu	Met	Val	Lys	Ser	Thr	Arg
Tyr	Ala 290	Ile	Ala	Pro	Ser	Phe 295	Ser	Trp	Arg	Pro	Asp 300	Asp	Lys	Thr	Asp
Phe 305	Thr	Phe	Leu	Ser	Asn 310	Phe	Gln	Ser	Asp	Pro	Asp 315	Ala	Gly	Tyr	Tyr
Gly	Trp	Leu	Pro	Arg	Glu	Gly	Thr	Val	Val	Pro	Tyr	Tyr	Asp	Ala	Asn

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<210> 6889
<211> 714
<212> PRT
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<213> Enterobacter cloacae

<400> 6889

Ala Arg Asp Ala Asn Pro Asp Gly Asp Ser Ala Leu Ala Gly Asn Ala
 1 5 10 15
 Val Arg Pro Arg Ala Ala Leu Pro Ala Arg Ala Ser Gly Met Val Leu
 20 25 30
 Arg Arg Asp Ala Val Gly His Ala Phe Cys Pro Arg Ala Gly Gln Cys
 35 40 45
 Thr Gly Arg Gln Gly Met Ser Thr Arg Met Ala Arg Phe Pro Met Leu
 50 55 60
 Leu Leu Ala Ile Ile Phe Leu Ala Ala Leu Ala Thr Gly Phe Asn
 65 70 75 80
 Leu Thr Thr Ala Leu Pro Arg Glu Gln Trp Ala Ala Ala Phe Ala Ala
 85 90 95
 Pro Asp Ile Asp Asn Ile Gln Gln Met Leu Phe His Tyr Ser Leu Leu
 100 105 110
 Pro Arg Leu Ala Ile Ser Leu Leu Val Gly Ala Gly Leu Gly Leu Val
 115 120 125
 Gly Val Leu Phe Gln Gln Val Leu Arg Asn Pro Leu Ala Glu Pro Thr
 130 135 140
 Thr Leu Gly Val Ala Thr Gly Ala Gln Leu Gly Ile Thr Ile Thr Thr
 145 150 155 160
 Leu Trp Thr Leu Pro Gly Ala Leu Thr Ser Gln Phe Ala Ala Leu Ala
 165 170 175
 Gly Ala Cys Val Val Gly Ala Leu Val Phe Gly Val Ala Trp Gly Lys
 180 185 190
 Arg Leu Ser Pro Val Thr Leu Ile Leu Ala Gly Leu Val Val Ser Leu
 195 200 205
 Tyr Cys Gly Ala Ile Asn Gln Leu Leu Val Leu Phe His His Asp Gln
 210 215 220
 Leu Gln Ser Met Phe Met Trp Ser Thr Gly Thr Leu Thr Gln Thr Asp
 225 230 235 240
 Trp Ser Ile Val Gln Arg Leu Trp Pro Gln Leu Phe Gly Gly Val Val
 245 250 255
 Leu Thr Leu Leu Leu Leu Arg Pro Leu Thr Leu Met Gly Leu Asp Asp
 260 265 270
 Gly Val Ala Arg Asn Leu Gly Leu Ala Leu Ser Leu Ala Arg Leu Ala
 275 280 285
 Ala Leu Thr Leu Ala Ile Val Leu Ser Ala Leu Leu Val Asn Ala Val
 290 295 300
 Gly Ile Ile Gly Phe Ile Gly Leu Phe Ala Pro Leu Leu Ala Lys Met
 305 310 315 320
 Leu Gly Ala Arg Arg Leu Leu Ala Arg Leu Met Leu Ala Pro Leu Ile
 325 330 335
 Gly Ala Leu Ile Leu Trp Leu Ser Asp Gln Leu Ile Leu Trp Leu Thr
 340 345 350
 Arg Val Trp Met Glu Val Ser Thr Gly Ser Val Thr Ala Leu Ile Gly
 355 360 365
 Ala Pro Leu Leu Leu Trp Leu Leu Pro Arg Leu Arg Ser Ile Ser Ala
 370 375 380
 Pro Ala Met Asp Ala Gly Asp Lys Val His Ala Glu Arg Gln Ser Val
 385 390 395 400
 Val Trp Phe Ser Leu Ala Gly Leu Ala Val Leu Val Ile Ala Ser Phe
 405 410 415
 Ala Ala Leu Ser Leu Gly Arg Asp Ala Thr Gly Trp His Trp Ala Thr
 420 425 430
 Gly Asp Leu Leu His Glu Leu Met Gln Trp Arg Trp Pro Arg Ile Phe
 435 440 445
 Ser Ala Leu Ile Ala Gly Val Met Leu Ala Val Ala Gly Cys Ile Ile
 450 455 460

Gln Arg Leu Thr Gly Asn Pro Met Ala Ser Pro Glu Val Leu Gly Ile
 465 470 475 480
 Ser Ser Gly Ala Ala Phe Gly Val Val Leu Met Leu Phe Leu Val Pro
 485 490 495
 Gly Asn Ala Phe Gly Trp Leu Met Pro Ala Gly Ser Ile Gly Ala Ala
 500 505 510
 Val Thr Leu Met Ile Ile Leu Ile Ala Ser Gly Arg Gly Gly Phe Ser
 515 520 525
 Pro His Arg Met Leu Leu Ala Gly Met Ala Leu Ser Thr Ala Phe Thr
 530 535 540
 Met Leu Leu Met Met Leu Gln Ala Ser Gly Asp Pro Arg Met Ala Gln
 545 550 555 560
 Ile Leu Thr Trp Ile Ser Gly Ser Thr Tyr Asn Ala Thr Gly Ser Gln
 565 570 575
 Val Val His Thr Gly Ile Val Met Ile Val Leu Leu Ala Ile Val Pro
 580 585 590
 Leu Cys Arg Arg Trp Met Thr Ile Leu Pro Leu Gly Gly Asp Thr Ala
 595 600 605
 Arg Ala Val Gly Leu Ala Leu Thr Pro Thr Arg Ile Ala Leu Leu Leu
 610 615 620
 Leu Ala Ala Cys Leu Thr Ala Thr Ala Thr Met Thr Ile Gly Pro Leu
 625 630 635 640
 Ser Phe Val Gly Leu Met Ala Pro His Ile Ala Arg Met Met Gly Phe
 645 650 655
 Arg Arg Thr Leu Pro His Ile Ala Ile Ser Ala Leu Thr Gly Gly Ala
 660 665 670
 Ile Leu Val Phe Ala Asp Trp Cys Gly Arg Met Val Leu Phe Pro Tyr
 675 680 685
 Gln Ile Pro Ala Gly Leu Leu Ser Thr Phe Ile Gly Ala Pro Tyr Phe
 690 695 700
 Ile Tyr Leu Leu Arg Lys Gln Ser Arg
 705 710

<210> 6890

<211> 275

<212> PRT

<213> Enterobacter cloacae

<400> 6890

Asn Pro Cys Gly His Leu Tyr Asp Glu Thr Glu Gln Val Met Asn Glu
 1 5 10 15
 Asn Thr Pro Ser Phe Glu Gln Gln Gln Phe Thr Arg Ala Lys Arg Arg
 20 25 30
 Val Ser Ile Arg Arg Leu Leu Asn Arg Asp Lys Thr Pro Leu Ala Ile
 35 40 45
 Leu Leu Ala Ala Ala Val Val Gly Thr Leu Ala Gly Leu Val Gly Val
 50 55 60
 Ala Phe Glu Lys Ala Val Asn Ala Val Leu Asn Trp Arg Ile Gly Thr
 65 70 75 80
 Val Ala Ser Phe Ala Asp Arg Glu Trp Leu Val Trp Val Trp Ala Phe
 85 90 95
 Gly Leu Ser Ala Leu Phe Ala Met Val Gly Tyr Phe Leu Val Arg Lys
 100 105 110
 Phe Ala Pro Glu Ala Gly Gly Ser Gly Ile Pro Glu Ile Glu Gly Ala
 115 120 125
 Leu Glu Glu Leu Arg Pro Val Arg Trp Trp Arg Val Leu Pro Val Lys
 130 135 140
 Phe Ile Gly Gly Met Gly Thr Leu Gly Ala Gly Met Val Leu Gly Arg
 145 150 155 160
 Glu Gly Pro Thr Val Gln Leu Gly Gly Asn Val Gly Arg Met Val Gly
 165 170 175

Asp Leu Phe Arg Met Arg Ser Ala Glu Ala Arg His Thr Leu Leu Ala
 180 185 190
 Thr Gly Ala Ala Ala Gly Leu Ser Ala Ala Phe Asn Ala Pro Leu Ala
 195 200 205
 Gly Ile Leu Phe Ile Ile Glu Glu Met Arg Ala Gln Phe Arg Tyr Asn
 210 215 220
 Leu Ile Ser Ile Lys Ala Val Phe Asn Gly Val Ile Met Ser Ser Ile
 225 230 235 240
 Val Phe Arg Val Phe Asn Gly Glu Gly Ala Val Ile Glu Val Gly Lys
 245 250 255
 Leu Thr Asn Ala Pro Val Ile Leu His Tyr Asp Ala Ala Asp Ala Thr
 260 265 270
 Tyr Pro His
 275

<210> 6891

<211> 325

<212> PRT

<213> Enterobacter cloacae

<400> 6891

Arg Asn Ala Gly Thr Tyr Leu Arg Tyr Ser Tyr Gly His Pro Ala Ser
 1 5 10 15
 Pro Gly Arg Gly Cys Thr Arg Glu Leu Cys Leu Leu Met Leu Asp Ser
 20 25 30
 Thr Phe Ile Ser Arg Arg Arg Leu Leu Thr Ala Met Ala Leu Ser Pro
 35 40 45
 Leu Leu Leu Lys Met Gly Pro Ala Arg Ala Ala Ile Asp Pro His
 50 55 60
 Arg Ile Val Ala Leu Glu Trp Leu Pro Val Glu Leu Met Met Ala Leu
 65 70 75 80
 Gly Val Thr Pro Tyr Gly Val Ala Asp Ile Pro Asn Tyr Thr Leu Trp
 85 90 95
 Val Asn Glu Pro Lys Leu Pro Asp Ser Val Ile Asp Ile Gly Leu Arg
 100 105 110
 Thr Glu Pro Asn Leu Glu Leu Leu Thr Gln Met Lys Pro Ser Tyr Leu
 115 120 125
 Phe Trp Ser Ala Gly Tyr Gly Pro Ser Glu Glu Thr Met Ala Lys Ile
 130 135 140
 Ala Pro Gly Arg Gly Phe Ser Phe Ser Asp Gly Lys Lys Pro Leu Thr
 145 150 155 160
 Met Ala Lys Asn Ser Ile His Glu Met Ala Gln Phe Leu Asn Arg Glu
 165 170 175
 Ala Glu Ala Lys Lys His Leu Asp Glu Phe Asp Ala Leu Ile Asp Ser
 180 185 190
 Leu Lys Pro Arg Phe Ala His Arg Gly Asp Arg Pro Leu Leu Met Val
 195 200 205
 Thr Leu Leu Asp Ala Arg His Met Leu Val Phe Gly Asn Asn Cys Leu
 210 215 220
 Phe Gln Glu Val Leu Asp Ser Phe Gly Ile Arg Asn Ala Trp Glu Gly
 225 230 235 240
 Glu Met Thr Phe Trp Gly Ser Thr Ala Val Gly Ile Asp Arg Leu Ala
 245 250 255
 Ala Phe Arg Asp Val Asp Val Leu Cys Phe Asp His Gly Asn Glu Arg
 260 265 270
 Glu Met Gln Thr Leu Met Ala Thr Pro Leu Trp Gln Ala Met Pro Phe
 275 280 285
 Val Arg Glu Gln Arg Phe Leu Arg Ala Pro Ala Val Trp Phe Tyr Gly
 290 295 300
 Ala Thr Leu Ser Ala Met His Phe Ala Arg Val Leu Asp Asn Ala Leu
 305 310 315 320

Gly Gly Lys Ala

325

<210> 6892

<211> 311

<212> PRT

<213> Enterobacter cloacae

<400> 6892

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Ile Arg Leu Gln Leu Leu Gln Arg Val Cys Met Leu Leu Gly Ser Arg
1      5      10      15
Thr Pro Gly Cys Cys His Gly Asp Leu Pro Leu Leu Thr Ser Leu Trp
      20      25      30
Ala Arg Phe Ala Val Pro Phe Leu Phe Lys Leu Ala Asp Met Gln Asp
      35      40      45
Asn Lys Thr Gln Ser Asp Ser Thr Phe Thr Leu Asn Asn Leu Ser Phe
      50      55      60
Arg Val Pro Gly Arg Thr Leu Leu His Pro Leu Ser Leu Thr Phe Pro
65      70      75      80
Ala Gly Lys Val Thr Gly Leu Ile Gly His Asn Gly Ser Gly Lys Ser
      85      90      95
Thr Leu Leu Lys Met Leu Gly Arg His Gln Pro Pro Ser Glu Gly Asp
      100      105      110
Ile Leu Leu Asp Asp Gln Pro Leu Ala Ser Trp Ser Ser Lys Ala Phe
      115      120      125
Ala Arg Lys Val Ala Tyr Leu Pro Gln Gln Leu Pro Gln Ala Glu Gly
130      135      140
Met Thr Val Arg Glu Leu Val Ala Ile Gly Arg Tyr Pro Trp His Gly
145      150      155      160
Ala Leu Gly Arg Phe Gly Val Ala Asp Arg Glu Lys Val Glu Glu Ala
      165      170      175
Ile Ala Leu Val Gly Leu Lys Pro Leu Ala His Arg Leu Val Asp Ser
      180      185      190
Leu Ser Gly Gly Glu Arg Gln Arg Ala Trp Ile Ala Met Leu Val Ala
195      200      205
Gln Asp Ser Arg Cys Leu Leu Leu Asp Glu Pro Thr Ser Ala Leu Asp
210      215      220
Ile Ala His Gln Val Asp Val Leu Ala Leu Val His Arg Leu Ser Gln
225      230      235      240
Gln Arg Gly Leu Thr Val Ile Ala Val Leu His Asp Ile Asn Met Ala
      245      250      255
Ala Arg Tyr Cys Asp Tyr Leu Val Ala Leu Arg Gly Gly Glu Met Ile
260      265      270
Ala Gln Gly Thr Pro Ala Glu Leu Met Arg Ser Glu Thr Leu Glu His
275      280      285
Ile Tyr Gly Ile Pro Met Gly Ile Leu Pro His Pro Ala Gly Ala Ala
290      295      300
Pro Val Ser Phe Val Tyr
305      310

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<210> 6893

<211> 833

<212> PRT

<213> Enterobacter cloacae

<400> 6893

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Ile Ile Ala Gly Gly Met Lys Lys Ile Ser Thr Gly Ala Asp Asn Gly
1      5      10      15
Gly Thr Asp Met Ser Gln Asp Pro Phe Gln Glu Arg Glu Ala Glu Lys
      20      25      30
Tyr Ala Asn Pro Ile Pro Ser Arg Glu Phe Ile Ile Glu His Leu Thr

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		35					40					45				
Lys	Arg	Glu	Lys	Pro	Ala	Asn	Arg	Glu	Glu	Leu	Ala	Val	Glu	Leu	Asn	
50						55					60					
Ile	Glu	Gly	Glu	Glu	Gln	Ile	Glu	Ala	Leu	Arg	Arg	Arg	Leu	Arg	Ala	
65					70					75					80	
Met	Glu	Arg	Asp	Gly	Gln	Leu	Val	Phe	Thr	Arg	Arg	Gln	Cys	Tyr	Ala	
				85					90				95			
Leu	Pro	Glu	Arg	Leu	Asp	Leu	Leu	Lys	Gly	Thr	Val	Ile	Gly	His	Arg	
			100					105					110			
Asp	Gly	Phe	Gly	Phe	Leu	Arg	Val	Glu	Gly	Arg	Lys	Asp	Asp	Leu	Tyr	
		115					120					125				
Leu	Ser	Ser	Glu	Gln	Met	Lys	Met	Cys	Ile	His	Gly	Asp	Gln	Ile	Leu	
130					135						140					
Ala	Gln	Pro	Leu	Gly	Ala	Asp	Arg	Lys	Gly	Arg	Arg	Glu	Ala	Arg	Val	
145				150						155					160	
Val	Arg	Val	Leu	Val	Pro	Lys	Thr	Ser	Gln	Ile	Val	Gly	Arg	Tyr	Phe	
				165					170					175		
Thr	Asp	Ala	Gly	Val	Gly	Phe	Val	Val	Pro	Asp	Asp	Ser	Arg	Leu	Ser	
			180					185					190			
Phe	Asp	Ile	Leu	Ile	Pro	Pro	Glu	Glu	Val	Met	Gly	Ala	Arg	Met	Gly	
		195					200					205				
Phe	Val	Val	Val	Val	Glu	Leu	Thr	Gln	Arg	Pro	Thr	Arg	Arg	Thr	Lys	
210					215						220					
Ala	Val	Gly	Lys	Ile	Val	Glu	Val	Leu	Gly	Asp	Asn	Met	Gly	Thr	Gly	
225				230						235					240	
Met	Ala	Val	Asp	Met	Ala	Leu	Arg	Thr	His	Glu	Ile	Pro	Tyr	Val	Trp	
				245					250					255		
Pro	Lys	Ala	Val	Glu	Asp	Gln	Ile	Glu	Asn	Leu	Arg	Glu	Glu	Val	Pro	
			260					265					270			
Glu	Glu	Ser	Lys	Ala	Gly	Arg	Val	Asp	Leu	Arg	Asp	Leu	Pro	Leu	Val	
		275					280					285				
Thr	Ile	Asp	Gly	Glu	Asp	Ala	Arg	Asp	Phe	Asp	Asp	Ala	Val	Tyr	Cys	
		290			295						300					
Glu	Lys	Lys	Arg	Gly	Gly	Gly	Trp	Arg	Leu	Trp	Val	Ala	Ile	Ala	Asp	
305				310						315					320	
Val	Ser	Tyr	Tyr	Val	Arg	Pro	His	Thr	Pro	Leu	Asp	Asn	Glu	Ala	Arg	
				325					330					335		
Ser	Arg	Gly	Thr	Ser	Val	Tyr	Phe	Pro	Ser	Gln	Val	Val	Pro	Met	Leu	
			340					345					350			
Pro	Glu	Val	Leu	Ser	Asn	Gly	Leu	Cys	Ser	Leu	Asn	Pro	Gln	Val	Asp	
		355					360					365				
Arg	Leu	Cys	Met	Val	Cys	Glu	Met	Thr	Ile	Ser	Ser	Lys	Gly	Arg	Leu	
		370				375					380					
Thr	Gly	Tyr	Lys	Phe	Tyr	Glu	Ala	Val	Met	Ser	Ser	His	Ala	Arg	Leu	
385					390					395					4	

Gly Gly Asn Lys Pro Glu Pro Arg Asp Tyr Ala Glu Leu Leu Glu Ser
 530 535 540
 Ile Ser Asp Arg Pro Asp Ala Glu Met Leu Gln Thr Met Leu Leu Arg
 545 550 555 560
 Ser Met Lys Gln Ala Ile Tyr Asp Pro Glu Asn Arg Gly His Phe Gly
 565 570 575
 Leu Ala Leu Gln Ser Tyr Ala His Phe Thr Ser Pro Ile Arg Arg Tyr
 580 585 590
 Pro Asp Leu Ser Leu His Arg Ala Ile Lys Tyr Leu Leu Ala His Glu
 595 600 605
 Gln Gly His Lys Gly Asn Thr Glu Thr Gly Gly Tyr His Tyr Ser
 610 615 620
 Met Glu Glu Met Leu Gln Leu Gly Gln His Cys Ser Met Thr Glu Arg
 625 630 635 640
 Arg Ala Asp Glu Ala Thr Arg Asp Val Ala Asp Trp Leu Lys Cys Asp
 645 650 655
 Phe Met Leu Asp Gln Val Gly Asn Ile Phe Lys Gly Val Ile Ala Ser
 660 665 670
 Val Thr Gly Phe Gly Phe Phe Val Arg Leu Asp Glu Leu Phe Ile Asp
 675 680 685
 Gly Leu Val His Val Ser Ser Leu Asp Asn Asp Tyr Tyr Arg Phe Asp
 690 695 700
 Gln Val Gly Gln Arg Leu Ile Gly Glu Ser Gly Gly Gln Thr Tyr Arg
 705 710 715 720
 Leu Gly Asp Arg Val Glu Val Lys Val Glu Ala Val Asn Met Asp Asp
 725 730 735
 Arg Lys Ile Asp Phe Ser Leu Ile Ser Ser Glu Arg Ala Pro Arg Asn
 740 745 750
 Val Gly Lys Thr Glu Arg Glu Lys Ala Lys Lys Gly Gly Asn Gly Lys
 755 760 765
 Ala Gly Gly Lys Arg Arg Gln Ala Gly Lys Arg Val Asn Phe Glu Pro
 770 775 780
 Asp Ser Ala Phe Arg Gly Glu Lys Lys Gln Lys Pro Lys Ala Ala Lys
 785 790 795 800
 Lys Asp Ala Arg Lys Ala Lys Lys Pro Ser Thr Lys Thr Gln Lys Ile
 805 810 815
 Ala Ala Ala Thr Lys Ala Lys Arg Ala Lys Lys Gln Gln Ala Glu
 820 825 830

<210> 6894

<211> 265

<212> PRT

<213> Enterobacter cloacae

<400> 6894

Phe Pro Leu Thr Leu Thr Leu Ser Pro Thr Gly Glu Gly Lys Tyr Leu
 1 5 10 15
 Leu Arg Glu Pro Ser Met Ser Glu Met Ile Tyr Gly Ile His Ala Val
 20 25 30
 Gln Ala Leu Leu Glu Arg Ala Pro Glu Arg Phe Gln Glu Val Phe Ile
 35 40 45
 Leu Lys Gly Arg Glu Asp Lys Arg Leu Met Pro Leu Ile His Ala Leu
 50 55 60
 Glu Ala Gln Gly Val Val Ile Gln Leu Ala Asn Arg Gln Tyr Leu Asp
 65 70 75 80
 Glu Lys Ser Glu Gly Ala Val His Gln Gly Ile Ile Ala Arg Val Lys
 85 90 95
 Pro Gly Arg Gln Tyr Gln Glu Asn Asp Leu Pro Asp Leu Ile Ala Glu
 100 105 110

Leu Asp Asn Pro Phe Phe Leu Ile Leu Asp Gly Val Thr Asp Pro His
 115 120 125
 Asn Leu Gly Ala Cys Leu Arg Ser Ala Asp Ala Ala Gly Val His Ala
 130 135 140
 Val Ile Val Pro Arg Asp Arg Ser Ala Gln Leu Asn Ala Thr Ala Lys
 145 150 155 160
 Lys Val Ala Cys Gly Ala Ala Glu Asn Val Pro Leu Ile Arg Val Thr
 165 170 175
 Asn Leu Ala Arg Thr Met Arg Leu Leu Gln Glu Glu Asn Ile Trp Ile
 180 185 190
 Val Gly Thr Ala Gly Glu Ala Asp His Thr Leu Tyr Gln Ser Lys Met
 195 200 205
 Thr Gly Arg Met Ala Leu Val Met Gly Ala Glu Gly Glu Gly Met Arg
 210 215 220
 Arg Leu Thr Arg Glu His Cys Asp Glu Leu Ile Ser Ile Pro Met Ala
 225 230 235 240
 Gly Ser Val Ser Ser Leu Asn Val Ser Val Ala Thr Gly Ile Cys Leu
 245 250 255
 Phe Glu Ala Val Arg Gln Arg Gly
 260 265

<210> 6895

<211> 464

<212> PRT

<213> Enterobacter cloacae

<400> 6895

Pro Gln Leu Ala Tyr Phe Arg Val Lys Lys Cys Cys Ile Ser Glu Lys
 1 5 10 15
 Ala Met Val Glu Ser Ile Phe Lys Gln Thr Val Ile Leu Lys Lys Met
 20 25 30
 Gly Asn Asn Val Val Val Leu Gly Thr Gln Trp Gly Asp Glu Gly Lys
 35 40 45
 Gly Lys Ile Val Asp Leu Leu Thr Glu Arg Ala Lys Tyr Val Val Arg
 50 55 60
 Tyr Gln Gly Gly His Asn Ala Gly His Thr Leu Val Ile Asn Gly Glu
 65 70 75 80
 Lys Thr Val Leu His Leu Ile Pro Ser Gly Ile Leu Arg Glu Asn Val
 85 90 95
 Thr Ser Ile Ile Gly Asn Gly Val Val Leu Ser Pro Ala Ala Leu Met
 100 105 110
 Lys Glu Met Lys Gly Leu Glu Asp Arg Gly Ile Pro Val Arg Glu Arg
 115 120 125
 Leu Leu Leu Ser Glu Ala Cys Pro Leu Ile Leu Asp Tyr His Val Ala
 130 135 140
 Leu Asp Val Ala Arg Glu Lys Ala Arg Gly Ala Lys Ala Ile Gly Thr
 145 150 155 160
 Thr Gly Arg Gly Ile Gly Pro Ala Tyr Glu Asp Lys Val Ala Arg Arg
 165 170 175
 Gly Leu Arg Val Gly Asp Leu Phe Asp Lys Ala Thr Phe Ala Glu Lys
 180 185 190
 Leu Lys Glu Val Met Glu Tyr His Asn Phe Gln Leu Val Asn Phe Tyr
 195 200 205
 Lys Ala Glu Ala Val Asp Tyr Gln Lys Val Leu Asp Asp Val Met Ala
 210 215 220
 Ile Ala Asp Ile Leu Thr Gly Met Val Val Asp Val Ser Asp Leu Leu
 225 230 235 240
 Asp Gln Ala Arg Lys Arg Gly Asp Phe Val Met Phe Glu Gly Ala Gln
 245 250 255
 Gly Thr Leu Leu Asp Ile Asp His Gly Thr Tyr Pro Tyr Val Thr Ser
 260 265 270

Ser Asn Thr Thr Ala Gly Gly Val Ala Thr Gly Ser Gly Leu Gly Pro
 275 280 285
 Arg Tyr Val Asp Tyr Val Leu Gly Ile Ile Lys Ala Tyr Ser Thr Arg
 290 295 300
 Val Gly Ala Gly Pro Phe Pro Thr Glu Leu Phe Asp Glu Thr Gly Glu
 305 310 315 320
 Phe Leu Cys Lys Gln Gly Asn Glu Phe Gly Ala Thr Thr Gly Arg Arg
 325 330 335
 Arg Arg Thr Gly Trp Leu Asp Ala Val Ala Val Arg Arg Ala Val Gln
 340 345 350
 Ile Asn Ser Leu Ser Gly Phe Cys Leu Thr Lys Leu Asp Val Leu Asp
 355 360 365
 Gly Leu Lys Glu Val Lys Ile Cys Val Gly Tyr Arg Met Pro Asp Gly
 370 375 380
 Arg Glu Val Thr Thr Thr Pro Leu Ala Ala Asp Asp Trp Glu Gly Ile
 385 390 395 400
 Glu Pro Ile Tyr Glu Thr Met Pro Gly Trp Ser Glu Thr Thr Phe Gly
 405 410 415
 Val Lys Glu Arg Ser Gly Leu Pro Lys Ala Ala Leu Asp Tyr Ile Lys
 420 425 430
 Arg Ile Glu Glu Leu Thr Glu Val Pro Ile Asp Ile Ile Ser Thr Gly
 435 440 445
 Pro Asp Arg Thr Glu Thr Met Ile Leu Arg Asp Pro Phe Asp Ala
 450 455 460

<210> 6896

<211> 167

<212> PRT

<213> Enterobacter cloacae

<400> 6896

Leu Ser Gly Trp Phe Ile Ile Ile Asn Glu Tyr Leu Cys Gly Leu Thr
 1 5 10 15
 Ala Phe Ser Leu Phe Pro Glu Val Asp Val Gln Leu Thr Ser Phe Thr
 20 25 30
 Asp Tyr Gly Leu Arg Ala Leu Ile Tyr Met Ala Ser Leu Pro Asp Gly
 35 40 45
 Lys Met Thr Ser Ile Ser Glu Val Thr Glu Val Tyr Gly Val Ser Arg
 50 55 60
 Asn His Met Val Lys Ile Ile Asn Gln Leu Ser Arg Ala Gly Tyr Val
 65 70 75 80
 Ala Ala Val Arg Gly Lys Asn Gly Gly Ile Arg Leu Gly Lys Pro Ala
 85 90 95
 Gln Ser Ile Arg Ile Gly Asp Val Val Arg Glu Leu Glu Pro Leu Ser
 100 105 110
 Leu Val Asn Cys Ser Ser Ala Phe Cys His Ile Thr Pro Ala Cys Arg
 115 120 125
 Leu Lys Gln Ala Leu Ser Lys Ala Val Gln Ser Phe Leu Lys Glu Leu
 130 135 140
 Asp Asn Tyr Thr Leu Ala Asp Leu Val Glu Glu Asn Gln Pro Leu Tyr
 145 150 155 160
 Lys Leu Leu Leu Val Glu
 165

<210> 6897

<211> 565

<212> PRT

<213> Enterobacter cloacae

<400> 6897

Pro Pro Ser His Ala Ala Cys Met Pro Ser Val His Thr Tyr Leu Tyr

1				5					10					15
Cys	Gln	Leu	Lys	Glu	Gly	Asp	Ser	Met	His	Trp	Gln	Thr	His	Thr
			20					25					30	Val
Phe	Asn	Gln	Pro	Ala	Pro	Leu	Ser	Asn	Ser	Asn	Leu	Phe	Leu	Ser
		35					40					45		Asp
Cys	Ala	Leu	Arg	Asp	Ala	Val	Ala	Arg	Glu	Gly	Ala	Glu	Trp	Asp
	50					55					60			Val
Asp	Leu	Leu	Ala	Ser	Ile	Gly	Gln	Gln	Leu	Gly	Thr	Ala	Glu	Ser
65					70					75				80
Glu	Leu	Gly	Arg	Leu	Ala	Asn	Val	Asn	Pro	Pro	Glu	Leu	Leu	Arg
				85					90					95
Asp	Ala	Thr	Gly	Glu	Arg	Leu	Asp	Asp	Val	Arg	Phe	His	Pro	Ala
			100					105					110	Trp
His	Leu	Leu	Met	Gln	Gly	Leu	Cys	Ala	Asn	Arg	Val	His	Asn	Leu
			115				120						125	Ala
Trp	Glu	Glu	Glu	Ala	Arg	Lys	Gly	Ser	Phe	Val	Ala	Arg	Ala	Ala
	130					135					140			Arg
Phe	Val	Leu	His	Ala	Gln	Val	Glu	Ala	Gly	Thr	Leu	Cys	Pro	Val
145					150					155				Thr
Met	Thr	Phe	Ala	Ala	Thr	Pro	Leu	Leu	Leu	Gln	Ser	Leu	Pro	Lys
				165					170					Pro
Phe	His	Asp	Trp	Leu	Thr	Pro	Leu	Met	Ser	Asp	Arg	Tyr	Asp	Pro
			180					185					190	His
Leu	Ala	Pro	Gly	Ala	Gln	Lys	Arg	Gly	Leu	Leu	Ile	Gly	Met	Gly
	195						200					205		Met
Thr	Glu	Lys	Gln	Gly	Gly	Ser	Asp	Val	Leu	Ser	Asn	Thr	Thr	Lys
	210					215					220			Ala
Glu	Lys	Cys	Ser	Asp	Gly	Ser	Tyr	Arg	Leu	Val	Gly	His	Lys	Trp
225					230					235				Phe
Phe	Ser	Val	Pro	Gln	Ser	Asp	Ala	His	Leu	Val	Leu	Ala	Gln	Ala
				245					250					Lys
Gly	Gly	Leu	Ser	Cys	Phe	Phe	Val	Pro	Arg	Phe	Leu	Pro	Asp	Gly
			260					265					270	Gln
Arg	Asn	Ala	Val	Arg	Leu	Glu	Arg	Leu	Lys	Asp	Lys	Leu	Gly	Asn
	275						280					285		Arg
Ser	Asn	Ala	Ser	Ser	Glu	Ala	Glu	Phe	Phe	Asp	Ala	Tyr	Gly	Trp
	290					295					300			Leu
Leu	Gly	Glu	Glu	Gly	Glu	Gly	Val	Arg	Gln	Ile	Leu	Lys	Met	Gly
305					310					315				Gly
Leu	Thr	Arg	Phe	Asp	Cys	Ala	Leu	Gly	Ser	His	Gly	Leu	Met	Arg
				325					330					Arg
Ala	Leu	Ser	Val	Ala	Leu	Tyr	His	Ala	His	Gln	Arg	Gln	Thr	Phe
			340					345					350	Gly
Lys	Asn	Leu	Ile	Asp	Gln	Pro	Leu	Met	Arg	Asp	Val	Leu	Ser	Arg
	355						360					365		Met
Ala	Leu	Val	Leu	Glu	Gly	His	Thr	Ala	Leu	Leu	Phe	Arg	Leu	Ala
	370					375					380			Arg
Ala	Trp	Asp	Asn	Arg	Thr	Asp	Pro	Gln	Glu	Ala	Ala	Trp	Ala	Arg
385					390					395				Leu
Phe	Thr	Pro	Ala	Ala	Lys	Tyr	Ser	Val	Cys	Lys	Ala	Gly	Ile	Pro
				405					410					Phe
Val	Ala	Glu	Ala	Met	Glu	Val	Leu	Gly	Gly	Ala	Gly	Tyr	Cys	Glu
			420					425					430	Glu
Ser	Glu	Leu	Pro	Arg	Leu	Tyr	Arg	Glu	Met	Pro	Val	Asn	Ser	Ile
		435					440					445		Trp
Glu	Gly	Ser	Gly	Asn	Ile	Met	Cys	Leu	Asp	Val	Leu	Arg	Val	Leu
	450					455					460			Ala
Lys	Gln	Ser	Gly	Ile	Leu	Asp	Leu	Leu	Ala	Asp	Asp	Phe	Ala	Gln
465					470					475				Val
Lys	Gly	Gln	Asp	Arg	His	Phe	Asp	Arg	Ser	Trp	Arg	Gln	Leu	Gln
				485					490					Gln

Lys Leu Arg Lys Pro Gln Glu Ala Gln Gly Arg Glu Ile Ala Arg Gln
 500 505 510
 Leu Phe Leu Leu Gly Ala Gly Ser Gln Met Leu Arg His Ala Thr Pro
 515 520 525
 Pro Val Ala Gln Ala Trp Cys Arg Met Met Leu Asp Thr Arg Gly Gly
 530 535 540
 Thr Leu Met Ser Glu Gln Val Gln Asn Asp Leu Leu Leu Arg Ala Thr
 545 550 555 560
 Gly Arg Val Gly
 565

<210> 6898

<211> 62

<212> PRT

<213> Enterobacter cloacae

<400> 6898

Pro Ala Arg Ile Ser Ser Ala Arg Arg Glu Asp Gly Arg Leu Gly Pro
 1 5 10 15
 Met Leu Tyr Pro Arg Ala Trp Arg Arg Met Ile Ala Thr Met Ser Gln
 20 25 30
 Leu Pro Asp Asn Ile Leu Arg Arg Phe Gly Gly Gly Leu Val Val Ala
 35 40 45
 Gly Ile Val Ile Tyr Tyr Met Leu Arg Lys Thr Ile Gly
 50 55 60

<210> 6899

<211> 461

<212> PRT

<213> Enterobacter cloacae

<400> 6899

Arg Arg Tyr Ile Thr Gln Tyr Gln Pro Val Lys Asn Ala Glu Gly Gln
 1 5 10 15
 Val Ile Gly Ile Ile Phe Val Gly Val Asp Ile Thr His Ser Trp Asn
 20 25 30
 Val Met Arg Glu Lys Ile Leu Asn Arg Arg Leu Gly Lys Ser Gly His
 35 40 45
 Phe Phe Val Leu Asp Arg Ser Ser Gly Lys Thr Arg Gly Gln Tyr Leu
 50 55 60
 Phe His Ala Ser Glu Glu Gly Lys Leu Pro Asn Trp Asp Thr Ala Thr
 65 70 75 80
 Gln Gln Gln Leu Leu Ser Asp Lys Ala Gly Thr Leu Glu Arg Val Ser
 85 90 95
 Ala Asp Gly Arg Thr Leu Lys Val Ala Tyr Thr Pro Leu Pro Gly Trp
 100 105 110
 Asn Trp Thr Ile Val Gly Glu Val Asp Lys Ala Val Leu Leu Ser Ser
 115 120 125
 Val Thr Thr Leu Arg Asp Arg Phe Leu Met Ala Gly Val Val Leu Ser
 130 135 140
 Ala Leu Phe Ala Gly Leu Phe Val Ile Leu Ile Arg Arg Met Leu Thr
 145 150 155 160
 Arg Pro Leu Arg Ala Val Ile Ala Leu Ala Arg Gln Tyr Ala Ala Gly
 165 170 175
 Asp Leu Arg Ala Ser Leu Pro Val Thr Arg Gln Asp Glu Val Gly Gln
 180 185 190
 Leu Ile Asp Ala Ile Asn Gly Ile Gly Gly Gly Leu Gln Lys Ile Val
 195 200 205
 Leu Gln Val Arg Glu Ala Ala Ser Glu Ile His Leu Gly Thr Asn Ala
 210 215 220
 Leu Ala Ser Asp Thr Gly Glu Ile Ser Glu Gln Ile Asn Lys Gln Ala

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225          230          235          240
Ser Ser Val Glu Glu Thr Ser Ala Ser Met Glu Gln Leu Ala Ala Thr
          245          250          255
Val Gln Gln Asn Ala Ala Asn Met Glu Gln Thr Gln Gln Leu Val Gly
          260          265          270
Glu Thr Ser Arg Ala Val His Gln Gly Gly Glu Thr Val Thr His Ala
          275          280          285
Val Ser Thr Met Asp Asp Ile Arg Asp Ala Ser Lys Arg Ile Glu Asp
          290          295          300
Ile Thr Arg Val Ile Glu Ser Ile Ala Phe Gln Thr Asn Ile Leu Ala
305          310          315          320
Leu Asn Ala Ala Val Glu Ala Ala Arg Ala Gly Glu His Gly Lys Gly
          325          330          335
Phe Ala Val Val Ala Gln Glu Val Arg Ala Leu Ala Ala Arg Ser Ala
          340          345          350
Asn Ala Val Lys Glu Ile Glu Gln Leu Ile Gly Asp Thr Leu Asn Lys
          355          360          365
Val Ser Glu Gly His Ala Leu Ser Glu Gln Thr Arg Leu Ala Met Asp
          370          375          380
Ala Ile Ile Val His Ile Asp Asn Ile Ser Gln Leu Val Thr Glu Ile
385          390          395          400
Asn His Ala Ser Arg Glu Gln Ser Ala Gly Ile Gly Gln Val Asn Leu
          405          410          415
Ala Met Thr His Ile Gly Glu Ala Ser His Ile Asn Ala Asp Arg Ile
          420          425          430
Ser Arg Ser Glu Gln Thr Ala Gln Thr Leu Arg Glu Lys Gly Ser His
          435          440          445
Leu Thr Arg Leu Val Ser Leu Phe Gln Leu Lys Ala
          450          455          460

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<210> 6900

<211> 449

<212> PRT

<213> Enterobacter cloacae

<400> 6900

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Gly Gln Thr Lys Val Ala Pro Val Phe Arg Ile Val Asn Arg Leu Leu
1          5          10          15
His Gly Ala Gln Gln His Gly Leu Gln His Phe Arg Val Arg Thr Ile
          20          25          30
Ala Asp Gly Phe Gln Gln Leu Gly Val Ile Ala Trp Leu Arg Leu Ile
          35          40          45
Thr Ala Arg Gln Leu Gln Ala Glu Phe Ser Gln His Gly Ala Glu Arg
          50          55          60
Gly Tyr Gly Phe Arg Gly Trp Leu Val Val Asn Thr Glu Gln Arg Arg
65          70          75          80
Leu Phe Gly Phe Leu Asn Glu Thr Cys Arg Arg Asp Val Cys Gln Asp
          85          90          95
His Thr Leu Phe Asn Gln Leu Val Arg Ile Val Thr Leu Gly Leu Leu
          100          105          110
Asp Thr Leu Asp Thr Thr Leu Ser Val Glu Asp Lys Leu Arg Phe Phe
          115          120          125
Ala Leu Lys Gly Asp Pro Ala Ala Leu Phe Ala Arg Leu Ile Gln Arg
          130          135          140
Phe Val Glu Val Val Gln Leu Phe Asp Val Phe Asp Gln Arg Arg Val
145          150          155          160
Leu Phe Ala Gln Ile Leu Ile Ala Leu Gln His Met Pro Asp Leu Gly
          165          170          175
Ile Gly Gln Ala Arg Met Gly Thr His His Cys Phe Val Glu Leu Ile
          180          185          190
Ala Arg Gln Thr Ser Leu Ala Gly Asp Gly His Phe Ala Asp His Thr

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195	200	205
Gln Ala Val His Leu Arg	Val Glu Gly Thr Gln	Ala Val Gly Glu His
210	215	220
Phe Trp Gln His Arg Tyr	Asn Leu Arg Arg Glu	Val Asp Arg Cys Thr
225	230	235
Ala Ala Ala Arg Phe Val	Ile Gln Arg Arg Val	Trp Thr Tyr Val Val
245	250	255
Ala His Ile Arg Asp Ser	His Pro Gln Thr Pro	Ala Thr Thr Thr Phe
260	265	270
Phe Leu Thr Val His Gly	Ile Ile Glu Val Thr	Gly Val Phe Thr Ile
275	280	285
Asn Gly Asp Gln Arg Gln	Ile Ala Gln Ile His	Ala Ala Cys Phe Gly
290	295	300
Leu Phe Arg His Phe Phe	Thr Gln Val Phe Asp	Leu Val Phe Asn Arg
305	310	315
Phe Arg Pro Asp Val Arg	Asn Phe Met Gly Ala	Gln Arg His Ile Asp
325	330	335
Gly His Ala Gly Ala His	Val Ile Ala Gln His	Phe Asn Asp Phe Thr
340	345	350
His Arg Phe Cys Ala Thr	Ser Trp Ala Leu Gly	Glu Phe Asn His His
355	360	365
His Lys Ala His Ala Cys	Ala His Tyr Leu Phe	Arg Arg Asp Glu Asn
370	375	380
Val Glu Ala Gln Thr Ala	Val Val Arg His His	Lys Ala Tyr Ala Arg
385	390	395
Ile Gly Lys Val Thr Ala	Asn Asp Leu Ala Gly	Phe Arg His Gln His
405	410	415
Ala Asp His Ala Arg Phe	Ala Ala Phe Thr Val	Cys Thr Gln Arg
420	425	430
Leu Arg Gln Asp Leu Val	Ala Val Asn Thr His	Leu His Leu Phe Gly
435	440	445

<210> 6901

<211> 137

<212> PRT

<213> Enterobacter cloacae

<400> 6901

Asp Phe Cys Arg Arg Ser	Ala Ala Asp Gly His Asp	Lys Ala Pro Pro
1	5	10
Arg Ala His Gly Ala Ser	Val Arg Gly Cys Gln Ala	His Ser Gln Ser
20	25	30
Ala Ser Ala Arg Pro Ser	Ser Glu Phe Ala Gly His	Leu His Pro Leu
35	40	45
Arg Pro Ala Ala Ser Arg	Lys His Gln Arg Thr Gln	Pro His Cys Trp
50	55	60
His Leu Asn Gly Tyr Arg	Ala Cys Pro Ser Asp Ala	Gln Gly Ala Arg
65	70	75
His Cys Val Ala Arg Arg	Val Arg Asn Ala Gly Gln	Lys Ser Arg Thr
85	90	95
Thr Arg Pro Ser Pro Ala	Arg Ala Pro Asp Ala His	Arg Ser Ala Ala
100	105	110
Arg Arg Lys Thr Ile Cys	Ala Pro Ala Gly Asn Cys	His His Cys
115	120	125
Ile Ser Leu Leu Trp Trp	Tyr Tyr	
130	135	

<210> 6902

<211> 437

<212> PRT

<213> Enterobacter cloacae

<400> 6902

```

Ile Ile Tyr Ser Tyr Pro Val Phe Val Arg Ile Val Met Gln Gln Asp
1      5      10      15
Ala His Lys Arg Ala Leu Ile Ala Gly Ser Ile Gly Asn Phe Ile Glu
20      25      30
Trp Tyr Glu Phe Ala Val Tyr Gly Phe Leu Ala Thr Val Ile Ala Arg
35      40      45
Asn Phe Phe Gln Leu Glu Gly Glu Ala Glu Leu Thr Ser Leu Ile Leu
50      55      60
Thr Trp Ala Ser Phe Ala Ile Ala Phe Phe Phe Arg Pro Leu Gly Ala
65      70      75      80
Val Val Phe Gly Arg Ile Gly Asp Arg Ile Gly Arg Lys Pro Thr Leu
85      90      95
Ile Ile Val Leu Val Leu Met Thr Leu Ala Thr Ala Ala Ile Gly Ile
100     105     110
Val Pro Val Tyr Ala Ser Ile Gly Ile Ala Ala Pro Leu Ile Val Thr
115     120     125
Leu Leu Arg Ile Leu Gln Gly Leu Phe Ala Gly Gly Glu Tyr Gly Gly
130     135     140
Ala Val Ser Leu Met Thr Glu Phe Ala Pro Arg Gly Lys Arg Gly Leu
145     150     155     160
Tyr Gly Ala Trp Gln Ser Phe Thr Val Ala Leu Gly Leu Leu Ala Gly
165     170     175
Ala Gly Ile Val Ala Leu Leu Ser Ala Leu Leu Ser Pro Glu Ala Leu
180     185     190
His Ala Trp Gly Trp Arg Ile Pro Phe Phe Leu Ala Leu Pro Met Gly
195     200     205
Ala Val Ala Leu Trp Leu Arg Val Ser Met Glu Glu Thr Pro Ser Phe
210     215     220
Val Gln Gln Arg Glu Lys Pro Val Val Thr Gln Ala Thr Thr Ala Ala
225     230     235     240
Thr Phe Lys Thr Ile Leu Met Gly Ile Gly Arg Val Met Val Trp Ser
245     250     255
Ala Ala Gly Tyr Thr Tyr Leu Val Ile Met Pro Thr Tyr Leu Gln Ser
260     265     270
Ala Leu His Thr Gly Phe Asn Gln Ala Leu Leu Ile Ala Val Ile Ser
275     280     285
Asn Ile Gly Phe Ala Leu Thr Ile Ile Pro Ser Gly Met Leu Ser Asp
290     295     300
Arg Ile Gly Arg Arg Thr Val Met Ile Ile Ser Thr Val Leu Leu Leu
305     310     315     320
Ile Leu Ala Leu Pro Leu Leu Lys Ile Leu Gln Ala Glu Thr Ser Thr
325     330     335
Leu Ala Val Lys Ala Ile Val Val Leu Ile Ala Gly Gly Leu Val Gly
340     345     350
Met Leu Ala Gly Pro Gly Pro Ala Met Leu Ser Glu Met Phe Pro Thr
355     360     365
Arg Val Arg Tyr Thr Gly Leu Gly Leu Ala Tyr Ser Leu Ser Asn Ala
370     375     380
Ile Phe Ser Gly Cys Thr Gly Leu Ile Ile Thr Gly Leu Ile Lys Glu
385     390     395     400
Thr Gly Asn Leu Asp Ile Pro Ala Tyr Tyr Val Met Ala Thr Ala Val
405     410     415
Val Ser Ile Phe Ala Leu Met Thr Leu Arg Lys Asp Asp His Leu Arg
420     425     430
Ser Leu Glu Glu
435

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<210> 6903
 <211> 244
 <212> PRT
 <213> Enterobacter cloacae

<400> 6903

```

Thr Ser Asp Arg His Ala Arg Arg Tyr Met Ser Gly Ser Phe Phe Leu
1          5          10          15
Ser Gly Val Ser Ala Met Ala Glu Gly Pro Leu Asn Glu Ser Glu Met
          20          25          30
Ala Trp Leu Glu Glu Thr Leu Ile Ser Tyr Gly His Asp Asp Ala Ser
          35          40          45
Val Ile Asp Val Ser Glu Leu Asp Gly Met Leu Thr Ala Val Leu Ser
          50          55          60
Gly Pro Val Val Val Glu Pro Asp Thr Trp Leu Val Ala Val Trp Gly
65          70          75          80
Gly Glu Lys Tyr Ile Pro Arg Trp Lys Asn Asp Arg Glu Met Asn Arg
          85          90          95
Phe Ile Asp Leu Cys Phe Lys His Met Asn Asp Ile Ala Glu Arg Leu
          100          105          110
Ser Glu Tyr Pro Asp Gln Phe Glu Pro Leu Phe Gly Tyr Asn Asp Val
          115          120          125
Asp Gly Gln Ser Tyr Thr Val Val Glu Glu Trp Cys Tyr Gly Tyr Met
          130          135          140
Arg Gly Val Ala Leu Thr Asp Trp Ser Ser Leu Pro Glu Ala Leu Glu
145          150          155          160
Ala Asp Leu Ala Val Ile Ala Leu His Gly Thr Glu Glu Asn Ser Glu
          165          170          175
Lys Leu Asp Ala Leu Thr Glu Glu Glu Tyr Met Ala Ser Ile Glu Ser
          180          185          190
Ile Gln Pro Ala Ala Leu Arg Leu Tyr Asp Tyr Trp Val Ala Asn Pro
          195          200          205
Gln Gln Pro Glu Ala Lys Lys Pro Ile Val Asn Gly Ser Lys Leu Gly
          210          215          220
Arg Asn Asp Pro Cys Pro Cys Gly Ser Gly Lys Lys Phe Lys Ser Cys
225          230          235          240
Cys Leu His

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<210> 6904
 <211> 88
 <212> PRT
 <213> Enterobacter cloacae

<400> 6904

```

Ser Ala Phe Tyr Leu Arg Glu Val Thr Met Ser Ile His Gly His Asp
1          5          10          15
Val Leu Asn Met Met Ile Glu Ser Gly Glu Arg Tyr Thr Glu Glu Ser
          20          25          30
Leu Val Glu Ala Ile His Ala Arg Phe Gly Glu Ala Ala Arg Phe His
          35          40          45
Thr Cys Ser Ala Ser Glu Met Thr Ala Ala Glu Leu Val Ala Phe Leu
          50          55          60
Ala Ala Arg Gly Lys Phe Ile Pro Ala Ala Asp Gly Phe Ser Thr His
65          70          75          80
Glu Ser Lys Ile Cys Arg His
          85

```

<210> 6905
 <211> 311
 <212> PRT

<213> Enterobacter cloacae

<400> 6905

```

Asn Phe His Leu Arg Asp Val Met Ser Leu Pro Pro Leu Tyr Ala Leu
1          5          10          15
Arg Ala Phe Glu Val Ala Ala Arg Leu Asn Ser Phe Ser Lys Ala Ala
20          25          30
Glu Thr Leu Asn Ile Thr Pro Gly Ala Val Ser Arg His Val Arg Thr
35          40          45
Leu Glu Leu Trp Phe Asp Cys Glu Leu Phe Lys Arg Gln Gly Pro Arg
50          55          60
Val Glu Val Thr Glu Ala Gly Arg Val Leu Ala Gly Gln Leu Asn Glu
65          70          75          80
Ser Phe Thr Ser Ile Glu Trp Ala Cys Arg Ala Phe Arg Ser Glu Asn
85          90          95
His Leu Leu Arg Leu Lys Ala Pro Ser Thr Leu Thr Met Arg Trp Leu
100         105         110
Leu Asp Val Leu Arg Ser Phe Arg Asn Asn His Ala Lys Pro Gln Val
115         120         125
Glu Ile Ala Ser Val Trp Met Asp Ile Asp Thr Val Asp Phe Asn Leu
130         135         140
Glu Pro Tyr Asp Cys Ala Ile Leu Leu Gly Asn Gly Arg Phe Gly Asp
145         150         155         160
Thr Thr Glu Ser Gln Leu Leu Phe His Glu Trp Leu Ile Pro Val Cys
165         170         175
Thr Pro Ser Leu Ile Glu Pro Ala Arg Gln Arg Leu Pro Gln Cys Asp
180         185         190
Leu Ile His Pro Ser Pro Asp Arg Arg Asp Trp Arg Arg Trp Leu Arg
195         200         205
Arg Thr Gly Leu Phe Pro Gly Leu Asp Met Ser Ser Gly Met Val Phe
210         215         220
Asp Thr Leu Glu Gln Gly Ser Ile Ala Ala Met Asn Gly His Gly Ile
225         230         235         240
Ala Ile Ala Asp Leu His Leu Thr Leu Asp Ala Leu Lys Ser Gly Leu
245         250         255
Leu Ala Leu Ala Val Gln Gly Ser Tyr Cys Asp Arg Gly Trp Leu Leu
260         265         270
Pro Arg Leu Ala Lys Lys Phe Thr Gln Lys Arg Glu His Ser Ala Ser
275         280         285
Ser Gly Leu Ala Ala Lys Pro Tyr Pro Gly Arg Ser Gly Ala Gly Tyr
290         295         300
Arg Leu Ser Gly Ile Arg
305         310

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<210> 6906

<211> 114

<212> PRT

<213> Enterobacter cloacae

<400> 6906

```

Thr Met Lys Arg Ile Ile Ile Ala Gly Thr Ile Leu Leu Leu Ala Gly
1          5          10          15
Cys Ser Ile Asn Arg Gln Ala Glu Ile Ser Ser Thr Asp Ala Pro Asn
20          25          30
Gly Ile Val Arg Leu Asp Tyr Gly Gln Ala Met Leu Gln Asn Ala Trp
35          40          45
Ser Asp Glu Tyr Val Asn Asn Gly Thr Ala Thr Lys Ala Cys Gln His
50          55          60
Met Gly Tyr Ala Thr Ala Ser Ala Tyr Gly Gln Pro Ile Lys Thr Cys
65          70          75          80
Thr Leu Ile Ser Gly Ser Leu Cys Leu Asn Glu Ser Val Thr Ile Gln

```

			85					90				95	
Tyr	Lys	Cys	Gln	Gly	Tyr	Ala	Val	Thr	Ser	Ser	Ser	Gln	Asn
			100					105				110	Pro
Tyr													Trp

<210> 6907

<211> 431

<212> PRT

<213> Enterobacter cloacae

<400> 6907

Ser	Val	Arg	Asn	Asn	Ala	Met	Thr	Ser	Asp	Gly	Phe	Ser	Leu	Lys	Arg
1				5					10					15	
Cys	Ile	Leu	Asp	Ala	Ile	Phe	Ser	Gly	Met	Ile	Ala	Leu	Ile	Ile	Phe
			20					25					30		
Gly	Pro	Ile	Ala	Gly	Val	Ile	Leu	Asp	Gly	Tyr	Ser	Phe	Thr	Phe	Gly
		35					40					45			
Gly	Gln	Arg	Leu	Ala	Trp	Ile	Val	Gly	Thr	Val	Met	Val	Gly	Arg	Phe
	50					55					60				
Leu	Leu	Ser	Ala	Phe	Ser	Ala	Thr	Ala	Ala	Gly	Arg	Arg	Leu	Gln	Thr
65					70					75					80
Arg	Phe	Glu	Ser	Asp	Asn	Ala	Gly	Val	Tyr	Val	Arg	Pro	Pro	Ala	Tyr
				85					90					95	
Lys	Ser	Arg	Met	Arg	Trp	Ile	Ile	Pro	Leu	Ile	Val	Thr	Leu	Ala	Ile
			100					105					110		
Cys	Phe	Pro	Phe	Val	Ala	Thr	Lys	Tyr	Leu	Leu	Thr	Val	Ala	Ile	Leu
		115					120					125			
Gly	Leu	Ile	Tyr	Val	Leu	Leu	Gly	Leu	Gly	Leu	Asn	Ile	Val	Val	Gly
	130						135				140				
Leu	Ala	Gly	Leu	Leu	Asp	Leu	Gly	Tyr	Val	Ala	Phe	Tyr	Ala	Ile	Gly
145					150					155					160
Ala	Tyr	Gly	Leu	Ala	Leu	Gly	Tyr	Gln	Tyr	Leu	Gly	Leu	Gly	Phe	Trp
				165					170					175	
Ser	Met	Leu	Pro	Leu	Ala	Ala	Leu	Met	Ala	Ala	Gly	Ala	Gly	Ala	Leu
			180					185					190		
Leu	Gly	Phe	Pro	Val	Leu	Arg	Met	His	Gly	Asp	Tyr	Leu	Ala	Ile	Val
	195						200					205			
Thr	Leu	Gly	Phe	Gly	Glu	Ile	Ile	Arg	Leu	Val	Leu	Asn	Asn	Trp	Leu
	210					215					220				
Thr	Phe	Thr	Gly	Gly	Pro	Asn	Gly	Val	Ser	Ala	Pro	Ala	Pro	Thr	Phe
225					230					235					240
Phe	Gly	Leu	Glu	Phe	Gly	Arg	Arg	Ala	Lys	Glu	Gly	Gly	Val	Pro	Phe
				245					250					255	
His	Glu	Phe	Phe	Gly	Leu	Thr	Tyr	Asn	Pro	Asn	Met	Lys	Phe	Ile	Phe
			260					265					270		
Ile	Tyr	Ala	Val	Leu	Phe	Leu	Val	Met	Leu	Val	Leu	Tyr	Ile	Lys	
	275						280				285				
His	Arg	Leu	Thr	Arg	Met	Pro	Ile	Gly	Arg	Ala	Trp	Glu	Ala	Leu	Arg
	290				295					300					
Glu	Asp	Glu	Ile	Ala	Cys	Arg	Ser	Met	Gly	Leu	Asn	His	Val	Leu	Val
305					310					315					320
Lys	Leu	Ser	Ala	Phe	Thr	Leu	Gly	Ala	Ser	Thr	Ala	Gly	Ile	Ala	Gly
			325					330					335		
Val	Phe	Phe	Ala	Thr	Tyr	Gln	Gly	Phe	Val	Asn	Pro	Thr	Ser	Phe	Thr
			340					345				350			
Phe	Phe	Glu	Ser	Ala	Leu	Ile	Leu	Ala	Ile	Val	Val	Leu	Gly	Gly	Met
		355					360					365			
Gly	Ser	Thr	Val	Gly	Val	Val	Leu	Ala	Ala	Phe	Val	Leu	Thr	Val	Thr
	370					375				380					
Pro	Glu	Leu	Leu	Arg	Ser	Phe	Ala	Glu	Tyr	Arg	Val	Leu	Leu	Phe	Gly

385 390 395 400
 Met Leu Met Val Val Met Met Ile Trp Arg Pro Arg Gly Leu Ile Arg
 405 410 415
 Ile Asn Arg Ser Gly Phe Thr Val Arg Lys Gly Val Ala Pro
 420 425 430

<210> 6908

<211> 429

<212> PRT

<213> Enterobacter cloacae

<400> 6908

Phe Asp Glu Thr Gly Leu Phe Pro Tyr Ser Ala Pro Gln Asn Glu Ser
 1 5 10 15
 Arg Tyr Gly Ser Val Val Glu Glu Ser Val Lys Asn Arg Thr Leu Gly
 20 25 30
 Ser Ile Phe Ile Val Ala Gly Thr Thr Ile Gly Ala Gly Met Leu Ala
 35 40 45
 Met Pro Leu Ala Ala Ala Gly Val Gly Phe Gly Ile Thr Val Val Leu
 50 55 60
 Leu Gly Gly Leu Trp Ala Leu Met Cys Tyr Thr Ala Leu Leu Leu Leu
 65 70 75 80
 Glu Val Tyr Gln His Val Pro Ala Asp Thr Gly Leu Gly Ser Leu Ala
 85 90 95
 Ala Arg Tyr Leu Gly Arg Tyr Gly Gln Trp Ile Ala Gly Phe Ser Met
 100 105 110
 Met Phe Leu Met Tyr Ala Leu Thr Ala Ala Tyr Ile Ser Gly Ala Gly
 115 120 125
 Glu Leu Ile Ala Ser Ser Ile Asn Asp Gly Phe Gly Ala Ser Leu Ser
 130 135 140
 Pro Glu Thr Gly Ala Ile Val Phe Thr Leu Ile Gly Gly Gly Val Val
 145 150 155 160
 Cys Ala Gly Thr Ser Leu Val Asp Leu Phe Asn Arg Phe Leu Phe Ser
 165 170 175
 Ala Lys Ile Leu Phe Leu Val Val Met Leu Val Leu Leu Ala Pro His
 180 185 190
 Val His Lys Ile Asn Leu Leu Ser Leu Pro Leu Glu Lys Gly Leu Ala
 195 200 205
 Leu Ser Ala Ile Pro Val Ile Phe Thr Ser Phe Gly Phe His Gly Ser
 210 215 220
 Val Pro Ser Ile Val Ser Tyr Met Asn Gly Asp Ile Arg Lys Leu Arg
 225 230 235 240
 Arg Val Phe Val Ile Gly Ser Ala Ile Pro Leu Ile Ala Tyr Leu Phe
 245 250 255
 Trp Gln Leu Val Thr Leu Gly Ser Ile Asp Ser Asn Thr Phe Ile Gly
 260 265 270
 Leu Met Ala Glu His Ser Gly Leu Asn Gly Phe Leu Val Ala Leu Arg
 275 280 285
 Asn Val Val Ala Ser Ser His Val Glu Leu Ala Val His Leu Phe Ala
 290 295 300
 Asp Leu Ala Leu Ala Thr Ser Phe Leu Gly Val Ala Leu Gly Leu Phe
 305 310 315 320
 Asp Tyr Met Ala Asp Leu Phe Gln Arg Arg Asn Thr Val Ala Gly Arg
 325 330 335
 Leu Gln Thr Gly Ala Met Thr Phe Leu Pro Pro Leu Ala Phe Ala Leu
 340 345 350
 Phe Tyr Pro Arg Gly Phe Val Met Ala Leu Gly Tyr Ala Gly Val Ala
 355 360 365
 Leu Ser Val Leu Ala Leu Leu Leu Pro Ser Leu Leu Ala Trp Lys Ser
 370 375 380
 Arg Gln Gln His Pro Gln Gln Gly Tyr Arg Val Ala Gly Gly Thr Pro

385 390 395 400
 Met Leu Cys Val Val Phe Gly Cys Gly Val Ala Ile Ile Leu Val Gln
 405 410 415
 Ile Leu Ile Ala Ala Gly Met Leu Pro Glu Val Gly
 420 425

<210> 6909

<211> 332

<212> PRT

<213> Enterobacter cloacae

<400> 6909

Arg Ser Ala Ile Thr Gly Arg Asn Leu Leu Ser Ala Gly Arg Ser Asp
 1 5 10 15
 Cys Arg Arg Asn Pro Leu Phe Arg Cys Ala Thr Met Ser Thr Phe Phe
 20 25 30
 Leu Gln Gln Leu Ile Asn Gly Leu Thr Leu Gly Ser Val Tyr Gly Leu
 35 40 45
 Ile Ala Ile Gly Tyr Thr Met Val Tyr Gly Ile Ile Gly Met Ile Asn
 50 55 60
 Phe Ala His Gly Glu Val Tyr Met Ile Ser Ala Tyr Leu Ser Ala Ile
 65 70 75 80
 Gly Leu Ala Leu Leu Ala Phe Phe Gly Leu His Ser Phe Pro Leu Leu
 85 90 95
 Ile Leu Gly Thr Leu Val Phe Thr Ile Val Val Thr Gly Val Tyr Gly
 100 105 110
 Trp Thr Ile Glu Arg Ile Ala Tyr Lys Pro Leu Arg Asn Ser Thr Arg
 115 120 125
 Leu Ala Pro Leu Ile Ser Ala Ile Gly Met Ser Leu Ile Leu Gln Asn
 130 135 140
 Tyr Val Gln Leu Ser Gln Gly Pro Arg Gln Gln Gly Val Pro Thr Met
 145 150 155 160
 Leu Asp Gly Val Leu Arg Phe His Leu Gly Glu Gly Phe Val Gln Ile
 165 170 175
 Thr Tyr Thr Lys Val Phe Ile Leu Ile Ala Ser Phe Ala Gly Met Leu
 180 185 190
 Val Leu Thr Trp Ile Ile Asn Arg Thr Arg Leu Gly Arg Met Cys Arg
 195 200 205
 Ala Val Gln Gln Asp Arg Lys Met Ala Ser Ile Leu Gly Ile Asn Thr
 210 215 220
 Asp Arg Ile Ile Ser Leu Val Phe Val Ile Gly Ala Ala Met Ala Gly
 225 230 235 240
 Leu Ala Gly Val Leu Ile Thr Met Asn Tyr Gly Thr Phe Asp Phe Tyr
 245 250 255
 Val Gly Phe Val Ile Gly Ile Lys Ala Phe Thr Ala Ala Glu Leu Gly
 260 265 270
 Gly Ile Gly Ser Leu Pro Gly Ala Met Leu Gly Gly Leu Ile Leu Gly
 275 280 285
 Val Ala Glu Ala Gln Phe Ser Gly Met Val Asn Ser Asp Tyr Lys Asp
 290 295 300
 Val Phe Ser Phe Gly Leu Leu Val Leu Ile Leu Ile Phe Arg Pro Gln
 305 310 315 320
 Gly Leu Leu Gly Arg Pro Val Val Ala Lys Val
 325 330

<210> 6910

<211> 255

<212> PRT

<213> Enterobacter cloacae

<400> 6910

Lys Ser Tyr Cys Arg Val Ser Gly His Arg Arg Lys Arg Gly Lys Ser
 1 5 10 15
 Val Ser Glu Pro Met Leu Gln Phe Gln Asp Val Asp Val Phe Tyr Gly
 20 25 30
 Val Ile Gln Ala Leu Lys Gln Val Ser Leu Glu Val Asn Lys Gly Glu
 35 40 45
 Thr Val Ala Leu Ile Gly Ala Asn Gly Ala Gly Lys Ser Thr Leu Leu
 50 55 60
 Met Ser Val Phe Gly Gln Pro Arg Ile Arg Asn Gly Gln Ile Leu Phe
 65 70 75 80
 Cys Gly Glu Asp Ile Ser His Lys Ser Thr His Tyr Val Ala Thr Gly
 85 90 95
 Gly Ile Ala Gln Ala Pro Glu Gly Arg Arg Ile Phe Pro Asp Met Ser
 100 105 110
 Val Glu Glu Asn Leu Leu Met Gly Thr Ile Pro Val Gly Asn Gln His
 115 120 125
 Ala Ala Glu Asp Met Gln Ser Met Phe Asp Leu Phe Pro Arg Leu Lys
 130 135 140
 Glu Arg Arg Asn Gln Arg Ala Met Thr Leu Ser Gly Gly Glu Gln Gln
 145 150 155 160
 Met Leu Ala Ile Ala Arg Ala Leu Met Ser Arg Pro Lys Leu Leu Leu
 165 170 175
 Leu Asp Glu Pro Ser Leu Gly Leu Ala Pro Ile Val Val Lys Gln Ile
 180 185 190
 Phe Gln Thr Leu Arg Glu Leu Ala Arg Asn Gly Met Thr Ile Phe Leu
 195 200 205
 Val Glu Gln Asn Ala His His Ala Leu Lys Leu Ser Asp Arg Gly Tyr
 210 215 220
 Val Met Val Asn Gly Gln Ile Arg Leu Ser Gly Ser Gly Glu Ala Leu
 225 230 235 240
 Leu Lys Asp Pro Glu Val Arg Lys Ala Tyr Leu Gly Gly Val
 245 250 255

<210> 6911

<211> 185

<212> PRT

<213> Enterobacter cloacae

<400> 6911

Ile Thr Asn Tyr Ser Val Ala His Arg Glu Pro Glu Leu Ile Asn Arg
 1 5 10 15
 Ser Cys Thr Met Leu Lys Thr Glu Met Ile Asp Lys Leu Asn Ala Gln
 20 25 30
 Met Asn Leu Glu Leu Phe Ser Ser Leu Leu Tyr Gln Gln Met Ser Ala
 35 40 45
 Trp Cys Ser Tyr His Ser Phe Glu Gly Ala Ala Ala Phe Leu Arg Arg
 50 55 60
 His Ala Gln Glu Glu Met Thr His Met Gln Arg Leu Phe Asp Tyr Leu
 65 70 75 80
 Thr Asp Thr Gly Ser Leu Pro Arg Ile Asp Asn Val Ala Ser Pro Phe
 85 90 95
 Ala Glu Tyr Gly Ser Leu Asp Glu Leu Phe Arg Ala Thr Tyr Glu His
 100 105 110
 Glu Gln Leu Ile Thr Gln Lys Ile Asn Glu Leu Ala His Ala Ala Met
 115 120 125
 Thr Ser Gln Asp Tyr Pro Thr Phe Asn Phe Leu Gln Trp Tyr Val Ala
 130 135 140
 Glu Gln His Glu Glu Glu Lys Leu Phe Lys Ser Val Leu Asp Lys Leu
 145 150 155 160
 Ser Leu Ala Gly Lys Ser Gly Glu Gly Leu Tyr Phe Ile Asp Lys Glu
 165 170 175

Leu Ser Thr Leu Asp Thr Gln Asn
180 185

<210> 6912

<211> 427

<212> PRT

<213> Enterobacter cloacae

<400> 6912

Cys	Ser	Ala	Arg	Phe	Ala	Val	Arg	Gly	Ile	Leu	Ala	Val	Leu	Ser	Met
1				5					10					15	
Arg	Leu	Leu	Leu	Lys	Cys	Ile	Leu	Phe	Ser	Leu	Leu	Phe	Leu	Asp	Leu
			20					25					30		
Arg	Cys	His	Gln	Ala	Phe	Gly	Phe	Ile	Pro	Gly	Ala	Lys	Thr	Ser	Leu
		35				40						45			
Leu	Arg	Asn	Ile	Ile	Met	Ser	Leu	Lys	Phe	Thr	Lys	Thr	Pro	Leu	Ser
	50				55						60				
Leu	Val	Leu	Ala	Gly	Cys	Leu	Val	Thr	Ala	Phe	Ser	Ala	Gln	Ala	Asp
65				70					75						80
Ile	Val	Ile	Gly	Val	Ala	Gly	Pro	Phe	Thr	Gly	Pro	Asn	Ala	Thr	Tyr
				85				90						95	
Gly	Asp	Gln	Tyr	Trp	His	Gly	Ala	Thr	Gln	Ala	Ala	Glu	Asp	Ile	Asn
			100					105					110		
Ala	Ala	Gly	Gly	Ile	Asn	Gly	Glu	Lys	Ile	Lys	Leu	Val	Gln	Gly	Asp
		115					120					125			
Asp	Ala	Cys	Glu	Pro	Lys	Gln	Ala	Val	Ala	Val	Ala	Asn	Arg	Leu	Val
	130					135					140				
Asp	Gln	Asp	Lys	Val	Lys	Ala	Val	Val	Gly	His	Phe	Cys	Ser	Ser	Ser
145					150					155					160
Thr	Met	Pro	Ala	Ser	Glu	Val	Tyr	Ser	Asp	Ala	Gly	Ile	Leu	Ser	Ile
				165					170					175	
Thr	Pro	Gly	Ser	Thr	Asn	Pro	Leu	Ile	Thr	Glu	Arg	Gly	Met	Ser	Asp
			180					185					190		
Ile	Phe	Arg	Met	Cys	Gly	Arg	Asp	Asp	Gln	Gln	Gly	Gln	Val	Ala	Ser
	195						200					205			
Asp	Phe	Ile	Leu	Asp	Lys	Leu	Lys	Ala	Lys	Arg	Val	Val	Ile	Ile	His
	210					215					220				
Asp	Lys	Asp	Thr	Tyr	Gly	Gln	Gly	Leu	Ala	Asp	Ala	Thr	Lys	Ala	Ala
225					230					235					240
Leu	Ala	Lys	Arg	Gly	Val	Lys	Glu	Val	Met	Tyr	Glu	Gly	Leu	Ser	Arg
			245					250					255		
Gly	Glu	Lys	Asp	Phe	Asn	Ala	Leu	Val	Thr	Lys	Ile	Gly	Ala	Gln	Lys
			260					265					270		
Pro	Asp	Val	Val	Phe	Phe	Gly	Gly	Cys	His	Pro	Glu	Ala	Gly	Pro	Leu
	275					280						285			
Val	Arg	Gln	Met	Arg	Glu	Gln	Gly	Val	Gln	Ala	Lys	Phe	Phe	Ser	Gly
	290					295					300				
Asp	Cys	Ile	Val	Asn	Glu	Glu	Met	Val	Thr	Ala	Ala	Gly	Gly	Ala	Gln
305					310					315					320
Tyr	Thr	Asn	Gly	Ile	Tyr	Met	Thr	Phe	Gly	Lys	Asp	Pro	Arg	Leu	Ile
			325						330					335	
Pro	Asp	Gly	Lys	Ala	Val	Ile	Glu	Lys	Phe	Arg	Thr	Gly	Lys	Phe	Glu
			340					345					350		
Pro	Glu	Gly	Tyr	Thr	Leu	Tyr	Ala	Tyr	Ala	Ser	Val	Gln	Ala	Ile	Ala
	355					360						365			
Ala	Ala	Phe	Lys	Ala	Thr	Gln	Gly	Thr	Asp	Ser	Ala	Lys	Ala	Ser	Glu
	370					375					380				
Trp	Leu	Lys	Ala	Asn	Pro	Val	Asp	Thr	Val	Met	Gly	Lys	Lys	Ala	Trp
385					390					395					400
Asp	Ser	Lys	Gly	Asp	Leu	Lys	Val	Ser	Asp	Tyr	Val	Val	Tyr	Gln	Trp
			405						410					415	

Asp Asp Lys Gly Lys Tyr Lys Glu Val Pro
 420 425

<210> 6913
 <211> 296
 <212> PRT
 <213> Enterobacter cloacae

<400> 6913

Arg Ser Gly Ala Met Asn Ala Thr Ile Leu Arg Val Glu His Leu Met
 1 5 10 15
 Met His Phe Gly Gly Ile Lys Ala Leu Asn Asp Val Asn Leu Glu Val
 20 25 30
 Gln Arg Gly Ser Ile Thr Ala Leu Ile Gly Pro Asn Gly Ala Gly Lys
 35 40 45
 Thr Thr Val Phe Asn Cys Leu Thr Gly Phe Tyr Arg Ala Ser Gly Gly
 50 55 60
 Asn Ile Leu Phe Asn Ala Arg Asn Lys Thr Thr Asn Val Ile Gln Val
 65 70 75 80
 Leu Gly Gln Lys Phe Gln Pro Gly Asp Trp Leu Asn Pro Ala Gln Leu
 85 90 95
 Gly Gln Arg Leu Phe Tyr Lys Met Phe Gly Gly Thr His Leu Val Asn
 100 105 110
 Arg Ala Gly Leu Ala Arg Thr Phe Gln Asn Ile Arg Leu Phe Arg Glu
 115 120 125
 Met Ser Val Val Glu Asn Leu Leu Val Ala Gln His Met Arg Val Asn
 130 135 140
 Arg Asn Leu Leu Ala Gly Val Leu Asn Thr Pro Ala Tyr Arg Arg Ala
 145 150 155 160
 Glu Asn Asp Ala Leu Asp Arg Ala Phe Tyr Trp Leu Glu Val Val Asp
 165 170 175
 Leu Val Asp Cys Ala Asn Arg Leu Ala Gly Glu Met Ser Tyr Gly Gln
 180 185 190
 Gln Arg Arg Leu Glu Ile Ala Arg Ala Met Cys Thr Gly Pro Glu Met
 195 200 205
 Ile Cys Leu Asp Glu Pro Ala Ala Gly Leu Asn Pro Val Glu Thr His
 210 215 220
 Lys Leu Ser Glu Ile Ile Arg Phe Leu Arg Asp His His Asp Ile Thr
 225 230 235 240
 Val Leu Leu Ile Glu His Asp Met Gly Met Val Met Gly Ile Ser Asp
 245 250 255
 Asp Ile Ile Val Leu Asp His Gly Asp Val Ile Ala Arg Gly Lys Pro
 260 265 270
 Ala Glu Ile Gln His Asn Glu Lys Val Ile Ala Ala Tyr Leu Gly Thr
 275 280 285
 Asp Glu Ser Glu Val Asn Leu
 290 295

<210> 6914
 <211> 295
 <212> PRT
 <213> Enterobacter cloacae

<400> 6914

Ala Leu Ile Pro Leu Tyr Cys Pro Leu Leu Cys Gly Asn Lys Arg Pro
 1 5 10 15
 Leu Pro Met Leu Met Ile Thr Ser Phe Ser Asn Pro Arg Val Ala Gln
 20 25 30
 Ala Phe Val Asp Tyr Met Ala Thr Gln Gly Ile Ile Leu Thr Ile Gln
 35 40 45
 Gln His Thr Gln Thr Asp Val Trp Leu Ala Asp Glu Ser Gln Ala Gly

50		55		60	
Arg Val Asn Ala Glu Leu	Ala Arg Phe Leu Glu Asn Pro Gly Asp Pro				
65	70	75	80		
Arg Tyr Leu Ala Ala Ser Trp Gln Ser Gly Gln Thr Gly Ser Gly Leu					
	85	90	95		
His Tyr Gln Arg Phe Pro Phe Leu Ala Thr Leu Arg Glu Arg Ala Gly					
	100	105	110		
Pro Phe Thr Leu Leu Leu Met Val Ala Cys Ile Ile Val Phe Ile Ile					
	115	120	125		
Met Ser Val Val Gly Asp Gln Ser Val Met Ile Ala Leu Ala Trp Pro					
	130	135	140		
Tyr Asp Pro Ser Leu Gln Phe Asp Val Trp Arg Tyr Phe Thr His Ala					
145	150	155	160		
Leu Met His Phe Ser Val Met His Ile Leu Phe Asn Leu Leu Trp Trp					
	165	170	175		
Trp Tyr Leu Gly Gly Ala Val Glu Lys Arg Leu Gly Ser Gly Lys Leu					
	180	185	190		
Ile Val Ile Thr Leu Ile Ser Ala Leu Leu Ser Gly Tyr Val Gln His					
	195	200	205		
Lys Phe Ser Gly Pro Trp Phe Gly Gly Leu Ser Gly Val Val Tyr Ala					
	210	215	220		
Leu Met Gly Tyr Ala Trp Leu Arg Gly Glu Arg Asp Pro Asp Ser Gly					
225	230	235	240		
Ile Tyr Leu Gln Arg Gly Leu Ile Thr Phe Ala Leu Ile Trp Leu Ile					
	245	250	255		
Ala Gly Trp Phe Asp Leu Phe Gly Met Ser Ile Ala Asn Gly Ala His					
	260	265	270		
Val Thr Gly Leu Ala Val Gly Leu Ala Met Ala Leu Ala Asp Thr Leu					
	275	280	285		
His Ala Arg Lys Arg Thr					
290	295				

<210> 6915

<211> 81

<212> PRT

<213> Enterobacter cloacae

<400> 6915

Ser Phe Ala Met Gly His Thr Pro Gly Ala Phe His Leu Thr Asn Asp		
1	5	10
Thr Leu Gly Ala Phe Met Arg Asp Asn Asp Phe Asp Thr Pro Val Met		
	20	25
Val Met Cys Tyr His Gly Asn Ser Ser Lys Gly Ala Ala Gln Tyr Leu		
	35	40
Leu Gln Gln Gly Tyr Glu Ala Val Tyr Ser Val Asp Gly Gly Phe Asp		
	50	55
Ala Trp His Arg His Phe Pro Ala Glu Val Glu Tyr Ala Phe Glu Arg		
65	70	75
		80

<210> 6916

<211> 301

<212> PRT

<213> Enterobacter cloacae

<400> 6916

Tyr Gly Leu Leu Pro Asp Gly Leu Ile Cys Leu Val Cys Leu Ser Pro		
1	5	10
Met Val Arg Thr Leu Pro Ala Trp Arg Ser Gly Trp Arg Trp Arg Trp		
	20	25
		30

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<210> 6917
<211> 811
<212> PRT
<213> Enterobacter cloacae
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Arg 1	Gln	Met	Cys	Phe 5	Leu	Ser	Thr	Gly	Cys 10	Arg	Phe	Pro	Met	Ser 15	Gln
Pro	Thr	Phe	Asn 20	Lys	Ala	Gln	Phe	Gln 25	Ala	Ala	Leu	Thr	Arg 30	Gln	Trp
Gln	Arg	Phe 35	Gly	Leu	His	Ala 40	Ala	Asn	Glu	Met	Thr 45	Pro	His	Gln	Trp
Trp	Gln 50	Ala	Val	Ser	Gly 55	Ala	Leu	Ala	Glu	Gln 60	Leu	Asp	Ala	Gln	Pro
Val 65	Ala	Lys	Pro	Val 70	Lys	Gly 75	Gln	Arg	His 80	Val	Asn	Tyr	Ile	Ser 85	Met
Glu	Phe	Leu	Ile 85	Gly	Arg	Leu 90	Thr	Gly	Asn 95	Asn	Leu	Leu	Asn 100	Leu	Gly
Trp	Tyr	Gln 100	Glu	Val	Gly 105	Asp	Val	Leu	Lys	Glu 110	His	Asp	Ile 115	Asn	Leu
Thr	Asp	Leu 115	Leu	Glu	Glu 120	Glu	Val	Asp	Pro	Ala 125	Leu	Gly	Asn 130	Gly	Gly
Leu	Gly 130	Arg	Leu	Ala	Ala 135	Cys	Phe	Leu	Asp	Ser 140	Met	Ala	Thr 145	Val	Gly
Gln 145	Ser	Ala	Ile 150	Gly	Tyr	Gly 155	Leu	Asn	Tyr	Gln 160	Tyr	Gly	Leu	Phe	Arg

Gln Ser Phe Ala Asp Gly His Gln Met Glu Ala Pro Asp Asp Trp His
 165 170 175
 Arg Asn Thr Tyr Pro Trp Phe Arg His Asn Ala Gln Leu Asp Val Gln
 180 185 190
 Val Gly Ile Gly Gly Lys Val Thr Lys Gln Gly Leu Trp Glu Pro Ala
 195 200 205
 Phe Thr Ile Thr Gly Glu Ala Trp Asp Leu Pro Val Leu Gly Tyr Arg
 210 215 220
 Asn Gly Val Ala Gln Pro Leu Arg Leu Trp Gln Ala Lys His Ala His
 225 230 235 240
 Pro Phe Asn Leu Thr Lys Phe Asn Asp Gly Asp Phe Leu Arg Ala Glu
 245 250 255
 Gln Gln Gly Ile Asp Ala Glu Lys Leu Thr Lys Val Leu Tyr Pro Asn
 260 265 270
 Asp Asn His Leu Ala Gly Lys Lys Leu Arg Leu Met Gln Gln Tyr Phe
 275 280 285
 Gln Cys Ala Cys Ser Val Ala Asp Ile Leu Arg Arg His His Leu Ala
 290 295 300
 Gly Arg Lys Leu Ala Gln Leu Pro Asp Phe Glu Val Ile Gln Leu Asn
 305 310 315 320
 Asp Thr His Pro Thr Ile Ala Ile Pro Glu Leu Leu Arg Val Leu Ile
 325 330 335
 Asp Glu His Gln Leu Ser Trp Asp Asp Ala Trp Ala Ile Thr Ser Arg
 340 345 350
 Thr Phe Ala Tyr Thr Asn His Thr Leu Met Pro Glu Ala Leu Glu Cys
 355 360 365
 Trp Asp Glu Lys Leu Val Lys Thr Leu Leu Pro Arg His Met Gln Ile
 370 375 380
 Ile Asn Lys Ile Asn Asp Gln Phe Lys Thr Leu Val Glu Lys Thr Trp
 385 390 395 400
 Pro Gly Asp Lys Ala Val Trp Ala Lys Leu Ala Val Val His Asp Lys
 405 410 415
 Gln Val Arg Met Ala Asn Met Cys Val Val Ser Gly Phe Ala Val Asn
 420 425 430
 Gly Val Ala Ala Leu His Ser Asp Leu Val Val Lys Asp Leu Phe Pro
 435 440 445
 Glu Tyr His Gln Leu Trp Pro Thr Lys Phe His Asn Val Thr Asn Gly
 450 455 460
 Ile Thr Pro Arg Arg Trp Ile Lys Gln Cys Asn Pro Leu Leu Ala Gly
 465 470 475 480
 Leu Leu Asp Lys Thr Leu Lys Lys Glu Trp Ala Asn Asp Leu Asp Gln
 485 490 495
 Leu Ile Asn Leu Glu Lys Leu Ala Asp Asn Ala Lys Phe Arg Glu Gln
 500 505 510
 Tyr Arg Ala Ile Lys Leu Glu Asn Lys Val Arg Leu Ala Glu Phe Val
 515 520 525
 Lys Met Arg Thr Gly Ile Glu Ile Asn Pro Asn Ala Ile Phe Asp Ile
 530 535 540
 Gln Ile Lys Arg Leu His Glu Tyr Lys Arg Gln His Leu Asn Leu Leu
 545 550 555 560
 His Ile Leu Ala Leu Tyr Lys Glu Ile Arg Glu Asn Pro Gln Ala Asp
 565 570 575
 Arg Val Pro Arg Val Phe Leu Phe Gly Ala Lys Ala Ala Pro Gly Tyr
 580 585 590
 Tyr Leu Ala Lys Asn Ile Ile Leu Ala Ile Asn Lys Val Ala Ala Ala
 595 600 605
 Ile Asn Asn Asp Pro Lys Val Gly Asp Lys Leu Lys Val Val Phe Leu
 610 615 620
 Pro Asp Tyr Cys Val Ser Ala Ala Glu Met Leu Ile Pro Ala Ala Asp
 625 630 635 640
 Ile Ser Glu Gln Ile Ser Thr Ala Gly Lys Glu Ala Ser Gly Thr Gly

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<210> 6918
<211> 697
<212> PRT
<213> Enterobacter cloacae
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Gly 1	Ser	Ala	Met	Glu 5	Ser	Lys	Arg	Leu	Asp 10	Ser	Ala	Ala	Gln	Ala	Ala
Gly	Ile	Ser	Leu 20	Ser	Tyr	Ile	Asn	Ala 25	His	Gly	Lys	Pro	Gln	Ser	Ile
Gly	Ala	Asp 35	Thr	Lys	Arg	Arg	Leu 40	Leu	Asp	Ala	Met	His 45	Lys	Thr	Asp
Ala	Lys 50	Ala	Ser	Gly	Ala	Pro 55	Val	Pro	Asn	Val	Lys 60	Val	Phe	Thr	Ala
Gly 65	Lys	Lys	Met	Pro	Leu 70	Ala	Val	Glu	Gly	Arg 75	Gly	Glu	Phe	Ser	Trp 80
Leu	Leu	Thr	Thr	Glu 85	Glu	Gly	His	Gln	His 90	Lys	Gly	His	Ala	Thr	Gly
Gly	Lys	Thr	Leu 100	Asn	Leu	Pro	Ala	Lys 105	Leu	Pro	Glu	Gly	Tyr 110	His	Thr
Leu	Thr	Leu 115	Thr	Arg	Asp	Asp	Gln 120	Arg	Phe	His	Cys	Arg 125	Val	Ile	Val
Ala	Pro 130	Lys	Arg	Cys	Tyr	Glu 135	Pro	Gln	Ala	Leu	Leu 140	Glu	Gly	Lys	Lys
Leu 145	Trp	Gly	Ala	Cys	Val	Gln 150	Leu	Tyr	Thr	Leu	Arg 155	Ser	Asp	Ser	Asn 160
Trp	Gly	Ile	Gly	Asp 165	Phe	Gly	Asp	Leu	Lys 170	Lys	Met	Leu	Ala	Ser	Val 175
Gly	Glu	Arg	Gly 180	Ala	Phe	Ile	Gly	Leu 185	Asn	Pro	Ile	His 190	Ala	Leu	Gly
Tyr	Pro	Ala 195	Asn	Pro	Glu	Ser	Ala 200	Ser	Pro	Tyr	Ser	Pro 205	Ser	Ser	Arg
Arg	Trp 210	Leu	Asn	Val	Ile	Tyr 215	Ile	Asp	Val	Asn	Ala 220	Leu	Asp	Asp	Phe
Lys 225	Asn	Ser	Lys	Glu	Ala 230	Gln	Ala	Trp	Trp	Lys 235	Leu	Glu	Thr	Thr	Gln 240
Gln	Met	Leu	Lys	Gln 245	Ala	Arg	Asp	Ala	Asp 250	Trp	Val	Asp	Tyr	Ala	Ser
Val	Thr	Ala	Leu	Lys	Met	Ala	Ala	Leu	Arg	Leu	Ala	Trp	Lys	Gly	Phe

260										265					270						
Ala	Lys	Arg	Asp	Asp	Glu	Gln	Met	Ala	Ala	Phe	Arg	Gln	Phe	Val	Met						
			275					280					285								
Gln	Glu	Gly	Glu	Ser	Leu	Tyr	Trp	Gln	Ala	Ala	Phe	Asp	Ala	Leu	His						
		290				295						300									
Ala	Tyr	Gln	Val	Gln	Glu	Asp	Glu	Met	Arg	Trp	Gly	Trp	Pro	Val	Trp						
305					310					315					320						
Pro	Glu	Ala	Tyr	Gln	Ser	Val	Asp	Thr	Pro	Glu	Val	Lys	Ala	Phe	Cys						
				325					330					335							
Glu	Thr	His	Ala	Asp	Glu	Val	Asp	Phe	Tyr	Leu	Trp	Leu	Gln	Trp	Leu						
			340					345					350								
Ala	Tyr	Ser	Gln	Phe	Ala	Ala	Cys	Trp	Gln	Val	Ser	Gln	Gly	Tyr	Asn						
		355					360					365									
Met	Pro	Ile	Gly	Leu	Tyr	Arg	Asp	Leu	Ala	Val	Gly	Val	Ala	Glu	Gly						
	370					375					380										
Gly	Ala	Glu	Thr	Trp	Cys	Asp	Arg	Glu	Leu	Tyr	Cys	Leu	Lys	Ala	Ser						
385					390					395					400						
Val	Gly	Ala	Pro	Pro	Asp	Ile	Leu	Gly	Pro	Leu	Gly	Gln	Asn	Trp	Gly						
				405					410					415							
Leu	Pro	Pro	Met	Asp	Pro	His	Val	Met	Ala	Ala	Arg	Ala	Tyr	Glu	Pro						
			420					425					430								
Phe	Ile	Asp	Leu	Leu	Arg	Ala	Asn	Met	Gln	Asn	Cys	Gly	Ala	Leu	Arg						
		435					440					445									
Ile	Asp	His	Val	Met	Ser	Val	Leu	Arg	Leu	Trp	Trp	Ile	Pro	Tyr	Gly						
	450					455					460										
Glu	Thr	Ala	Asp	His	Gly	Ala	Tyr	Val	Gln	Tyr	Pro	Val	Asp	Asp	Leu						
465					470					475					480						
Leu	Ser	Ile	Leu	Ala	Leu	Glu	Ser	Lys	Arg	His	Gln	Cys	Met	Val	Ile						
				485					490					495							
Gly	Glu	Asp	Leu	Gly	Thr	Val	Pro	Val	Glu	Ile	Val	Ser	Lys	Leu	Arg						
			500					505					510								
Asp	Ser	Gly	Val	Tyr	Ser	Tyr	Lys	Val	Leu	Tyr	Phe	Glu	Asn	Asp	His						
		515					520					525									
Glu	Lys	Thr	Phe	Arg	Ala	Pro	Lys	Ala	Tyr	Pro	Glu	Gln	Ser	Met	Ala						
	530					535					540										
Val	Ala	Thr	Thr	His	Asp	Leu	Pro	Thr	Leu	Arg	Gly	Tyr	Trp	Glu	Ser						
545					550					555					560						
Gly	Asp	Leu	Thr	Leu	Gly	Lys	Thr	Leu	Gly	Leu	Tyr	Pro	Asp	Glu	Glu						
				565					570					575							
Val	Leu	Arg	Gly	Leu	Tyr	Gln	Asp	Arg	Glu	Leu	Ala	Lys	Gln	Gly	Leu						
			580					585					590								
Leu	Asp	Ala	Leu	His	Lys	His	Gly	Cys	Leu	Pro	Lys	Arg	Ala	Gly	His						
		595					600					605									
Lys	Ala	Ser	Leu	Met	Ser	Met	Thr	Pro	Met	Leu	Asn	Arg	Gly	Leu	Gln						
	610					615					620										
Arg	Tyr	Ile	Ala	Asp	Ser	Asn	Ser	Ala	Leu	Leu	Gly	Leu	Gln	Pro	Glu						
	625				630					635					640						
Asp	Trp	Ile	Asp	Met	Ala	Glu	Pro	Val	Asn	Ile	Pro	Gly	Thr	Ser	Tyr						
				645					650					655							
Gln	Tyr	Lys	Asn	Trp	Arg	Arg	Lys	Leu	Ser	Thr	Thr	Leu	Glu	Ala	Met						
			660					665					670								
Phe	Ala	Asp	Asp	Gly	Val	Asn	Arg	Leu	Ile	Lys	Asp	Leu	Asp	Lys	Arg						
		675					680					685									
Arg	Arg	Ala	Val	Gly	Asn	Lys	Arg														
	690					695															

<210> 6919

<211> 89

<212> PRT

<213> Enterobacter cloacae

<400> 6919

Leu Ser Arg Gln Ser Arg Pro Ala His Pro Ala Ala Arg Cys Gly Gly
 1 5 10 15
 Thr Thr Asp Arg Tyr Cys Gly Ala Ser Arg Pro Ala Leu Pro Ser Asp
 20 25 30
 Gly Arg Arg Gln Met Thr Asp Gly Thr Gly Arg Thr Asp Ser Ser Gly
 35 40 45
 His Ser Gln Ser Pro Thr Gly Pro Pro Leu Pro Trp Asn Pro Gly Ser
 50 55 60
 Arg Leu Pro Asp Val Pro Asp Arg Arg Tyr Pro Ala Pro Gly Gln Pro
 65 70 75 80
 Leu Leu Pro Ala Asp Arg Ser Gly
 85

<210> 6920

<211> 920

<212> PRT

<213> Enterobacter cloacae

<400> 6920

Leu Arg Ser Ala Lys Lys Ile Asn Ser Leu Val Pro His Ser Glu Val
 1 5 10 15
 Lys Thr Met Leu Ile Pro Ser Lys Leu Ser Arg Pro Val Arg Leu Asp
 20 25 30
 His Thr Val Val Arg Glu Arg Leu Leu Ala Lys Leu Ser Gly Ala His
 35 40 45
 Asn Phe Arg Leu Ala Leu Val Thr Ser Pro Ala Gly Tyr Gly Lys Thr
 50 55 60
 Thr Leu Ile Ser Gln Trp Ala Ala Gly Lys Ser Asp Leu Gly Trp Tyr
 65 70 75 80
 Ser Leu Asp Glu Gly Asp Asn Gln Gln Glu Arg Phe Ala Ser Tyr Leu
 85 90 95
 Ile Ala Ala Ile Gln Gln Ala Thr Asn Gly His Cys Val Thr Ser Glu
 100 105 110
 Val Met Val Gln Lys Arg Gln Tyr Ala Ser Leu Ser Ser Leu Phe Ser
 115 120 125
 Gln Leu Phe Ile Glu Leu Ala Glu Trp His Arg Pro Leu Tyr Val Val
 130 135 140
 Ile Asp Asp Tyr His Leu Ile Thr Asn Pro Val Ile His Glu Ser Met
 145 150 155 160
 Arg Phe Phe Leu Arg His Gln Pro Glu Asn Leu Thr Leu Val Val Leu
 165 170 175
 Ser Arg Asn Leu Pro Gln Leu Gly Ile Ala Asn Leu Arg Val Arg Asp
 180 185 190
 Gln Leu Leu Glu Ile Gly Ser Gln Gln Leu Ala Phe Thr His Gln Glu
 195 200 205
 Ala Lys Gln Phe Phe Asp Cys Arg Leu Thr Ser Pro Ile Glu Ala Ser
 210 215 220
 Glu Ser Ser Arg Leu Cys Asp Asp Val Ala Gly Trp Ala Thr Ala Leu
 225 230 235 240
 Gln Leu Ile Ala Leu Ser Ala Arg Gln Asn Asn Ser Pro Thr His Gln
 245 250 255
 Ser Ala Arg Arg Leu Ala Gly Ile Asn Ala Ser His Leu Ser Asp Tyr
 260 265 270
 Leu Val Asp Glu Val Leu Asp Ser Val Asp Leu Ser Thr Arg His Phe
 275 280 285
 Leu Leu Lys Ser Ser Leu Leu Arg Ser Met Asn Asp Ala Leu Ile Val
 290 295 300
 Arg Val Thr Gly Ile Glu Asn Gly Gln Leu Gln Leu Glu Glu Ile Glu
 305 310 315 320
 Arg Gln Gly Leu Phe Leu Thr Arg Met Asp Asp His Gly Glu Trp Phe

				325					330					335			
Ser	Tyr	His	Pro	Leu	Phe	Gly	Ser	Phe	Leu	Arg	Gln	Arg	Cys	Gln	Trp		
			340					345					350				
Glu	Leu	Ala	Ala	Glu	Leu	Pro	Asp	Ile	His	Arg	Ala	Ala	Ala	Glu	Ser		
		355					360					365					
Trp	Met	Ala	Gln	Gly	Phe	Pro	Ser	Glu	Ala	Ile	His	His	Ala	Leu	Ala		
	370					375					380						
Ala	Gly	Asp	Ala	Gly	Met	Leu	Arg	Asp	Ile	Leu	Leu	Asn	His	Ala	Trp		
385					390					395					400		
Gly	Leu	Phe	Asn	His	Ser	Glu	Leu	Thr	Leu	Glu	Glu	Ser	Leu	Lys			
			405						410					415			
Ala	Leu	Pro	Trp	Glu	Ser	Leu	Leu	Glu	Asn	Pro	Arg	Leu	Val	Leu	Leu		
		420						425					430				
Gln	Ala	Trp	Leu	Met	Gln	Ser	Gln	His	Arg	Tyr	Ser	Glu	Val	Asn	Thr		
		435					440					445					
Leu	Leu	Ala	Arg	Ala	Glu	Gln	Glu	Met	Glu	Ser	Glu	Met	Asp	Thr	Thr		
	450					455					460						
Leu	His	Gly	Glu	Phe	Asn	Ala	Leu	Arg	Ala	Gln	Val	Ala	Ile	Asn	Asp		
465					470					475					480		
Gly	Asp	Pro	Asp	Glu	Ala	Glu	Arg	Leu	Ala	Met	Val	Ala	Leu	Asp	Glu		
			485						490					495			
Leu	Pro	Leu	Ala	Asn	Phe	Tyr	Ser	Arg	Ile	Val	Ala	Thr	Ser	Val	His		
			500					505					510				
Gly	Glu	Val	Leu	His	Cys	Lys	Gly	Asp	Leu	Thr	Arg	Ser	Leu	Ser	Leu		
	515						520					525					
Met	Gln	Gln	Thr	Glu	Gln	Met	Ala	Arg	Arg	His	Asp	Val	Trp	His	Tyr		
	530					535					540						
Ala	Leu	Trp	Ser	Leu	Ile	Gln	Gln	Ser	Glu	Ile	Leu	Phe	Ala	Gln	Gly		
545					550					555					560		
Phe	Leu	Gln	Ala	Ala	Trp	Glu	Asn	Gln	Glu	Lys	Ala	Phe	Gln	Leu	Ile		
			565						570					575			
Arg	Glu	Gln	His	Leu	Glu	Gln	Leu	Pro	Met	His	Glu	Phe	Leu	Leu	Arg		
			580					585					590				
Ile	Arg	Ala	Gln	Leu	Leu	Trp	Ala	Trp	Ser	Arg	Leu	Asp	Glu	Ala	Glu		
	595						600					605					
Ser	Cys	Ala	Arg	Gln	Gly	Leu	Asn	Val	Leu	Ser	Ser	Phe	Gln	Pro	Gln		
	610					615					620						
Gln	Gln	Leu	Gln	Cys	Leu	Ala	Leu	Leu	Val	Gln	Cys	Ser	Leu	Ala	Arg		
625					630					635					640		
Gly	Asp	Leu	Asp	Asn	Ala	Arg	Asn	His	Leu	Asn	Arg	Leu	Glu	Asn	Leu		
			645						650					655			
Leu	Gly	Asn	Gly	Gln	Tyr	His	Ser	Asp	Trp	Val	Ser	Asn	Ala	Asp	Lys		
		660						665					670				
Val	Arg	Val	Ile	Tyr	Trp	Gln	Met	Thr	Gly	Asp	Lys	Lys	Ser	Ala	Ala		
	675						680					685					
Asn	Trp	Leu	Arg	His	Thr	Pro	Lys	Pro	Glu	Phe	Ala	Asn	Asn	His	Phe		
	690					695					700						
Leu	Gln	Ser	Gln	Trp	Arg	Asn	Ile	Ala	Arg	Val	Gln	Ile	Leu	Leu	Gly		
705				710						715					720		
Asp	Phe	Glu	Pro	Ala	Glu	Ile	Val	Leu	Glu	Glu	Leu	Asn	Glu	Asn	Ala		
			725						730					735			
Arg	Ser	Leu	Arg	Leu	Met	Ser	Asp	Leu	Asn	Arg	Asn	Leu	Leu	Leu	Leu		
		740						745					750				
Asn	Gln	Leu	Tyr	Trp	Gln	Ala	Gly	Arg	Lys	Asn	Asp	Ala	Gln	Arg	Val		
	755						760					765					
Leu	Leu	Glu	Ala	Leu	Gln	Leu	Ala	Asn	Arg	Thr	Gly	Phe	Ile	Ser	His		
	770					775						780					
Phe	Val	Ile	Glu	Gly	Glu	Val	Met	Ala	Gln	Gln	Leu	Arg	Gln	Leu	Ile		
785					790					795					800		
Gln	Leu	Asn	Thr	Leu	Pro	Glu	Leu	Asp	Gln	His	Arg	Ala	Gln	Arg	Ile		
			805						810					815			

Leu Arg Glu Ile Asn Gln His His Arg His Lys Phe Ala His Phe Asp
 820 825 830
 Glu Asn Phe Val Glu Arg Leu Leu Asn His Pro Glu Val Pro Glu Leu
 835 840 845
 Ile Arg Thr Ser Pro Leu Thr Gln Arg Glu Trp Gln Val Leu Gly Leu
 850 855 860
 Ile Tyr Ser Gly Tyr Ser Asn Glu Gln Ile Ala Gly Glu Leu Ala Val
 865 870 875 880
 Ala Ala Thr Thr Ile Lys Thr His Ile Arg Asn Leu Tyr Gln Lys Leu
 885 890 895
 Gly Val Ala His Arg Gln Asp Ala Val Gln His Ala Gln Gln Leu Leu
 900 905 910
 Lys Met Met Gly Tyr Gly Val
 915 920

<210> 6921

<211> 63

<212> PRT

<213> Enterobacter cloacae

<400> 6921

Ile Thr Arg Ser Thr Arg Ile Phe Gln Pro Arg Val Lys Ile Ser His
 1 5 10 15
 Val Asn Asp Pro Gly Phe Trp Leu Phe Lys Glu Tyr Phe Asn Leu Thr
 20 25 30
 Ile Gly Glu Thr Ile Lys Ser Trp Ser Ala Leu Glu Thr Ile Ile Ser
 35 40 45
 Val Cys Gly Leu Val Gly Val Leu Leu Leu Asn Met Val Val
 50 55 60

<210> 6922

<211> 351

<212> PRT

<213> Enterobacter cloacae

<400> 6922

Lys Lys Glu His Arg Met Lys Tyr Val Asn Leu Gly Arg Ser Gly Leu
 1 5 10 15
 Gln Val Ser Arg Leu Cys Leu Gly Cys Met Ser Tyr Gly Glu Pro Glu
 20 25 30
 Arg Leu Pro Gln Pro Trp Ser Leu Asp Glu Lys Ala Ser Arg Pro Leu
 35 40 45
 Ile Arg Gln Ala Leu Glu Ala Gly Ile Asn Phe Phe Asp Thr Ala Asn
 50 55 60
 Ile Tyr Ser Gly Gly Ser Ser Glu Glu Ile Thr Gly Lys Ala Leu Arg
 65 70 75 80
 Glu Met Ala Arg Arg Asp Glu Ile Val Val Ala Thr Lys Thr Phe Phe
 85 90 95
 Pro Trp Arg Asn Ser Pro Asn Thr Gly Phe Leu Ser Arg Lys Ala Ile
 100 105 110
 Phe Gln Ser Ile Asp Asp Ser Leu Met Arg Leu Gly Met Asp Tyr Val
 115 120 125
 Asp Leu Phe Gln Ile His Arg Phe Asp His Ser Thr Pro Val Glu Glu
 130 135 140
 Thr Met Glu Ala Leu His Asp Leu Val Lys Ser Gly Lys Val Arg Tyr
 145 150 155 160
 Ile Gly Ala Ser Ser Met Glu Ala Trp Arg Phe Ala Lys Met Gln His
 165 170 175
 Thr Ala Glu Leu Asn Gly Trp Thr Arg Phe Ile Thr Met Gln Pro Gln
 180 185 190
 Tyr Asn Leu Leu Tyr Arg Glu Glu Glu Arg Glu Met Leu Pro Leu Cys


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<210> 6923
<211> 341
<212> PRT
<213> Enterobacter cloacae
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<400> 6923															
Val 1	Asp	Gly	Leu	Val 5	Lys	Lys	Ile	Gln	Gln	Arg	Ile	Ser	Pro	Gly	Arg
Ser	Met	Val	Tyr	Ile	Ile	Ser	Val	Ser	Ile	His	Ser	Gly	Leu	Asn	Ala
			20				25				30				
Gln	Gly	Lys	Arg	Phe	Cys	Met	Gln	Ile	Ser	Arg	Ala	Asp	Val	Ala	Asp
			35				40				45				
Leu	Ile	Tyr	Phe	Met	Ala	Ile	Ala	Arg	His	Arg	Ser	Phe	Ser	Arg	Ala
			50				55				60				
Ala	Ile	Glu	Leu	Gly	Val	Ser	Ala	Ser	Ala	Leu	Ser	His	Ala	Leu	Lys
			65				70				75				
Gly	Leu	Glu	Thr	Arg	Leu	Gly	Val	Arg	Leu	Leu	Asn	Arg	Thr	Thr	Lys
			85				90				95				
Ser	Val	Thr	Pro	Thr	Ala	Ala	Gly	Glu	Glu	Leu	Val	Gln	Ser	Val	Leu
			100				105				110				
Gln	Pro	Phe	Asp	Thr	Ile	Glu	Gly	Ala	Leu	Glu	Ser	Leu	Asn	Arg	Tyr
			115				120				125				
Arg	Asn	Thr	Pro	Thr	Gly	Arg	Ile	Arg	Ile	Asn	Ala	Ala	Val	Glu	Ala
			130				135				140				
Ala	Asn	Leu	Leu	Leu	Ala	Pro	Val	Met	Pro	Ala	Phe	Met	Asp	Arg	Tyr
			145				150				155				
Pro	Asp	Ile	Glu	Ile	Asp	Ile	Val	Ala	Ser	Asn	Arg	Met	Val	Asp	Val
			165				170				175				
Thr	Asp	Ala	Gly	Phe	Asp	Ala	Gly	Ile	Arg	Tyr	Gly	Gly	Thr	Val	Pro
			180				185				190				
Glu	Asp	Met	Val	Ala	Arg	Arg	Leu	Ser	Ala	Asp	Ile	Arg	Trp	Val	Ile
			195				200				205				
Ala	Ala	Ser	Pro	Asp	Tyr	Leu	Glu	Arg	Tyr	Gly	Thr	Pro	Glu	Tyr	Pro
			210				215				220				
Asp	Asp	Leu	Leu	His	His	Arg	Cys	Ile	Ser	Asn	Arg	Leu	Gly	Asp	Asp
			225				230				235				
Arg	Ile	Tyr	Arg	Trp	Glu	Leu	Glu	Arg	Asp	Gly	Glu	Thr	Tyr	Gln	Ile
			245				250				255				
Thr	Val	Pro	Gly	Ser	Val	Thr	Val	Asn	Gln	Ala	Glu	Thr	Gly	Leu	Val
			260				265				270				
Ala	Val	Leu	Gly	Gly	Ala	Gly	Leu	Met	Tyr	Phe	Pro	Glu	Pro	Leu	Val

275 280 285
 Ala Pro Tyr Val Lys Asp Gly Arg Leu Arg Leu Val Leu Thr Glu Trp
 290 295 300
 Ser Pro Leu Glu Glu Gly Phe His Ile Tyr Tyr Ser Ser Arg Arg Gln
 305 310 315 320
 Leu Pro Thr Gly Leu Arg Leu Leu Ile Glu Phe Ile Gln Glu Ala Arg
 325 330 335
 Pro Leu Gly Leu
 340

<210> 6924
 <211> 179
 <212> PRT
 <213> Enterobacter cloacae

<400> 6924
 Arg Val Arg Pro Asp Met Lys Pro Ala Asp Lys Pro Val Leu Cys Val
 1 5 10 15
 Val Ser Ser His Pro Ile Lys Gly Ala Ser Gly Val Pro Thr Gly Phe
 20 25 30
 Phe Leu Ala Glu Leu Thr His Pro Leu Lys Val Val Glu Asp Ala Gly
 35 40 45
 Leu Lys Thr Thr Ile Ala Ser Ile Arg Gly Gly Gln Pro Pro Val Asp
 50 55 60
 Gly Phe Asp Leu Ser Asp Pro Val Asn Ala Trp Phe Trp Asn Glu Thr
 65 70 75 80
 Asp Phe Gln Gln Arg Leu Ala Thr Thr Pro Ala Leu Ser Glu Leu Asn
 85 90 95
 Gly Ser Asp Tyr Ser Ala Val Phe Phe Ala Gly Gly His Gly Thr Met
 100 105 110
 Trp Asp Phe Arg Asp Ser Gln Asp Ala Gln Arg Ile Ile Arg Glu Val
 115 120 125
 Tyr Glu Ser Asp Gly Ile Val Ala Ala Val Cys His Gly Pro Ala Ala
 130 135 140
 Leu Val Asp Ser Lys Leu Ser Ser Gly Glu Tyr Leu Val Lys Gly Lys
 145 150 155 160
 Asn Val Ala Ala Phe Thr Asn Lys Glu Ser Ser Pro Ala Gly Arg Lys
 165 170 175
 Glu Gln Arg

<210> 6925
 <211> 62
 <212> PRT
 <213> Enterobacter cloacae

<400> 6925
 Val Val Ser Met Ser Gly Lys Gly Tyr Pro Lys Ala Phe Lys Ile Glu
 1 5 10 15
 Ala Val Lys Gln Val Val Glu Arg Gly Tyr Ser Val Ser Ser Val Thr
 20 25 30
 Thr Leu Leu Asp Ile Thr Thr His Gly Leu Tyr Ala Arg Ile Lys Lys
 35 40 45
 Ile Ala Val Gly Phe His Cys Pro Gln Cys Ile Arg Gln
 50 55 60

<210> 6926
 <211> 176
 <212> PRT
 <213> Enterobacter cloacae

<400> 6926

Lys Gln Trp Arg Ala Tyr Ser Ser Arg Ala Cys Ala Arg Asn Glu Ile
 1 5 10 15
 Gly Lys Gly His Arg Asn Ile Ala Leu Val Ile Asp Asn Glu Thr Asp
 20 25 30
 Asp Ala Ser Lys Arg Met Val Glu Gly Tyr Arg Asn Val Leu Gln Asn
 35 40 45
 Tyr Ser Phe Pro Phe Asn Arg Gln Leu Val Leu Thr Ala Asn Glu Asn
 50 55 60
 Val Glu Arg Ala Leu Leu Thr Leu Ile Asn Ser Leu Ser Lys Phe Ser
 65 70 75 80
 Ser Ile Val Val Lys Arg Asp Ala Tyr Ala Ala Glu Ala Met Arg Leu
 85 90 95
 Phe Arg Glu Phe Asn Ile Ala Val Pro Gln Glu Val Ser Leu Leu Ser
 100 105 110
 Leu Glu Asp Ser Pro Leu Ala Thr Gln Leu Tyr Pro Gln Leu Thr Cys
 115 120 125
 Ile Ser Trp Pro Met Glu Ser Leu Leu His Gln Cys Val Gln Arg Ile
 130 135 140
 Lys Ser Ile Val Glu Gly Arg Pro Leu Arg Glu Thr Glu Leu Pro Pro
 145 150 155 160
 Ile Ile Gly Lys Leu Thr Pro Arg Gln Ser Val Leu Glu Met Ser
 165 170 175

<210> 6927

<211> 356

<212> PRT

<213> Enterobacter cloacae

<400> 6927

Thr Arg Cys Ala Leu Leu Phe Leu Lys Ile Met Arg Ser Gly Arg Arg
 1 5 10 15
 Ser Gly Arg Asn Ile His Leu Thr Glu Pro Cys Met Asn Tyr Thr His
 20 25 30
 Leu Gly Arg Thr Gly Leu Lys Val Ser Arg Leu Cys Leu Gly Thr Met
 35 40 45
 Asn Phe Gly Asp Val Thr Asp Glu Lys Thr Ser Ala Arg Ile Leu Asp
 50 55 60
 Glu Ala Leu Glu Ala Gly Ile Asn Phe Ile Asp Thr Ala Asp Val Tyr
 65 70 75 80
 Gly Thr Glu Gln Ser Pro Asp Ile Gln Gln Gly Ser Gly Leu Ser Glu
 85 90 95
 Glu Ile Ile Gly Arg Trp Ile Gln Gln Gly Gly Arg Arg Asp Arg Ile
 100 105 110
 Val Leu Ala Thr Lys Val Tyr Gln Pro Met Gly Pro Gly Pro Asn Asp
 115 120 125
 Arg Arg Leu Ser Ala Tyr His Ile Arg Lys Ala Cys Glu Asp Ser Leu
 130 135 140
 Arg Arg Leu Lys Thr Asp His Ile Asp Val Tyr Gln Met His His Ile
 145 150 155 160
 Asp Arg Tyr Thr Pro Trp Glu Glu Ile Trp Gln Ala Met Glu Leu Leu
 165 170 175
 Val Gln Gln Gly Lys Val Leu Tyr Ile Gly Ser Ser Asn Phe Ala Gly
 180 185 190
 Trp Asp Ile Ala Thr Ala Gln Ser Val Ala Thr Ala Arg His Ser Leu
 195 200 205
 Gly Leu Val Ala Glu Gln Ser Leu Tyr Asn Leu Thr Ala Arg Thr Val
 210 215 220
 Glu Leu Glu Val Ile Pro Ala Cys Arg His Phe Gly Leu Gly Leu Ile
 225 230 235 240
 Pro Trp Ser Pro Leu Ala Gly Gly Leu Leu Gly Gly Val Leu Lys Lys

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<210> 6928
<211> 151
<212> PRT
<213> Enterobacter cloacae
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<210> 6929
<211> 303
<212> PRT
<213> Enterobacter cloacae
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<400> 6929															
Glu	His	Ile	Met	Asn	Asn	Ala	Leu	Tyr	Asn	Gln	Ile	Arg	Ile	Phe	Gln
1				5					10					15	
Ser	Ile	Ala	Arg	Glu	Gly	Asn	Ile	Ser	Ala	Ala	Ala	Arg	Lys	Leu	Glu
			20					25					30		
Ile	Thr	Pro	Pro	Ser	Val	Ser	Asn	Ala	Leu	Lys	Leu	Leu	Glu	Asp	His
		35					40					45			
Ile	Gly	His	Pro	Leu	Phe	Val	Arg	Thr	Thr	Arg	Arg	Ile	Glu	Leu	Thr
	50					55					60				
Glu	Thr	Gly	Gln	Leu	Leu	Leu	Glu	Gln	Thr	Ala	Ala	Ala	Val	Glu	Ser
65					70					75				80	
Leu	Glu	His	Ser	Leu	Glu	Ser	Ile	Arg	Asp	Gln	Asn	Gln	Glu	Pro	Ser
				85					90					95	

Gly Ile Val Arg Ile Thr Leu Ser Arg Phe Ala Tyr Leu Leu Ile Leu
 100 105 110
 Lys Pro Ala Met Ala Lys Phe Cys Gln Gln Tyr Pro Gly Ile Gln Leu
 115 120 125
 Glu Ile Ser Val Tyr Asp Gly Thr Val Asn Val Ile Glu Glu Arg Phe
 130 135 140
 Asp Leu Gly Ile Arg Phe Gly Asp Ile Leu Glu Gly Gly Val Val Ala
 145 150 155 160
 Arg Pro Leu Met Lys Pro Phe Arg Glu Gly Leu Tyr Ala Ser Ser Ala
 165 170 175
 Tyr Ile Ser Glu His Gly Met Pro Glu Val Pro Ala Asp Leu Ser Gln
 180 185 190
 His Lys Leu Ile Gly Tyr Arg Phe Ile Thr Asn Asn Arg Ile Leu Pro
 195 200 205
 Leu Ile Leu Asn Asp Arg Gly Glu Gln Leu Thr Val Glu Met Pro Gly
 210 215 220
 Gln Leu Ile Ser Asn Asp Ile Asp Val Met Ala Asp Gly Ile Arg Asn
 225 230 235 240
 Gly Leu Gly Ile Gly Arg Leu Phe Glu Pro Ile Leu Gln Leu Gln Pro
 245 250 255
 Asp Arg Glu Arg Phe Ile Pro Val Met Glu Ser Tyr Trp Lys Thr Tyr
 260 265 270
 Pro Pro Val Tyr Leu Tyr Tyr Pro Lys Asn Ala Gly Lys Thr Lys Arg
 275 280 285
 Val Lys Ala Leu Ile Asp Phe Leu Ile Ser Ala Thr Gly Arg
 290 295 300

<210> 6930

<211> 430

<212> PRT

<213> Enterobacter cloacae

<400> 6930

Ala Val Ser Thr Lys Ser Gly Pro Asp Pro Gly Glu Lys Arg Pro Arg
 1 5 10 15
 Leu Met Pro Gly Asn Asp Gln Ile Asn Glu Ser Phe Leu Arg Tyr Arg
 20 25 30
 Glu Phe Gln Phe Met Ser Lys Met Met His Asp Gln His Ser Ala Ser
 35 40 45
 Val Pro Ala Ser Arg Asp Arg Arg Asn Phe Leu Ile Ala Gly Ala Gly
 50 55 60
 Leu Ala Leu Ala Ala Thr Thr Leu Gly Arg Ser Gly Ala Val Met Ala
 65 70 75 80
 Lys Pro Ala Gly Gln Asp Thr Ser Ser Ala Pro Ser Gly Ala Val Pro
 85 90 95
 Val Gln Lys Glu Thr Leu Thr Thr Arg Lys Leu Gly Ser Leu Glu Val
 100 105 110
 Ser Ser Met Gly Leu Gly Cys Leu Pro Met Val Gly Tyr Tyr Gly Gly
 115 120 125
 Gly Pro Arg Asp Arg Lys Ala Met Val Ser Leu Ile Arg Ala Ala Phe
 130 135 140
 Glu Gln Gly Ile Thr Phe Phe Asp Thr Ala Glu Val Tyr Gly Pro His
 145 150 155 160
 Leu Ser Glu Glu Phe Val Gly Glu Ala Leu Ala Pro Val Arg Asp Arg
 165 170 175
 Val Val Ile Ala Thr Lys Phe Gly Phe Gly Val Glu Glu Gly Lys Pro
 180 185 190
 Thr Ser Leu Asn Ser His Pro Asp His Ile Arg Arg Ala Val Glu Gly
 195 200 205
 Ser Leu Lys Arg Leu Lys Thr Asp His Ile Asp Leu Leu Tyr Gln His
 210 215 220

Arg Pro Asp Pro Asn Val Pro Ile Glu Asp Val Ala Glu Thr Val Lys
 225 230 235 240
 Ala Leu Ile Arg Glu Gly Lys Val Lys His Trp Gly Leu Ser Glu Ala
 245 250 255
 Ser Ala Gly Thr Ile Arg Arg Ala His Ala Val Leu Pro Val Thr Ala
 260 265 270
 Val Gln Ser Glu Tyr Ala Met Trp Trp Arg Glu Pro Glu Thr Arg Ile
 275 280 285
 Phe Pro Thr Leu Glu Glu Leu Gly Ile Gly Phe Val Pro Tyr Cys Pro
 290 295 300
 Thr Ala Arg Ser Phe Leu Ala Gly Ala Val Asn Pro Ser Gln Arg Phe
 305 310 315 320
 Asp Ser Thr Asp Arg Arg His Asn Leu Pro Arg Phe Gln Pro Asp Ala
 325 330 335
 Leu Ala Lys Asn Met Val Leu Leu Glu Phe Ala Gln Ser Trp Ala Arg
 340 345 350
 Arg Lys Asn Thr Thr Pro Val Gln Phe Ala Leu Ala Trp Val Met Ala
 355 360 365
 Gln Arg Pro Trp Ile Val Pro Ile Pro Gly Thr Thr Gln Tyr Pro His
 370 375 380
 Leu Ile Glu Asn Ser Gly Ala Pro Gln Val Arg Leu Thr Asp Ser Glu
 385 390 395 400
 Leu Arg Glu Ile Asp Ala Ala Leu Ala Arg Ile Pro Leu Gln Gly Gly
 405 410 415
 Arg Ala Asp Pro Phe Thr Glu Ser Gln Phe Asp Lys Ser
 420 425 430

<210> 6931

<211> 325

<212> PRT

<213> Enterobacter cloacae

<400> 6931

Val Lys Ser Pro Ser Val Phe Leu Pro Gly Ile Asn His Met Asn Gly
 1 5 10 15
 Leu Asn His Asn Ala Leu Thr Arg Ser Ala Val Pro Ile Pro Pro Cys
 20 25 30
 Glu Arg Ser Leu Gln Thr Val Glu Ala Gln Pro Tyr Phe Ser Val Ser
 35 40 45
 Glu Ala Ser Leu Val Leu Glu Gly Ala Val Phe Asp Arg Asn Asn Asn
 50 55 60
 Leu Leu Phe Val Asp Ala Ala Thr Gly Arg Val Phe Lys Leu Thr Pro
 65 70 75 80
 Glu Arg Gln Leu Ser Ile Val Leu Lys Glu Asn Thr Phe Gly Ala Ser
 85 90 95
 Gly Leu Ala Val His Lys Asp Gly Arg Ile Phe Ile Ala Ser Val Gly
 100 105 110
 Asp Met Gln Arg Gly Ser Val Arg Ala Ile Glu Pro Asp Gly Thr Arg
 115 120 125
 Glu Gln Met Ile Val Asp Pro Glu Gly Gly Phe Leu Ala Asn Asp Leu
 130 135 140
 Val Phe Asp Asn Gln Gly Gly Phe Tyr Phe Thr Asp Ser Arg Gly Asn
 145 150 155 160
 Ser Ala Asp Pro Gln Gly Gly Val Phe Tyr Val Ser Pro Asn Val Gly
 165 170 175
 Ser Ile His Ala Ile Leu Pro Gly Leu Ala Val Gly Asn Gly Leu Ala
 180 185 190
 Ile Asp Pro Asp Gly Thr Leu Ile Trp Ala Thr Glu His Ala Lys Asn
 195 200 205
 Arg Leu His Arg Val Arg Leu Ser Asp Ala Thr Thr Ile Ala Pro Phe
 210 215 220

Gly Ser Val Val Thr Tyr Gln Phe Thr Gly Pro Ala Pro Asp Gly Ala
 225 230 235 240
 Arg Val Asp Ser Glu Gly Asn Val Tyr Val Ala Ile Ser Gly Gln Gly
 245 250 255
 Arg Ile Met Val Phe Asn Arg Asn Gly Leu Pro Ile Gly Gln Ile Val
 260 265 270
 Leu Pro Asp Arg Asp Lys Gly Arg Asn Leu Lys Ser Thr Ser Leu Ala
 275 280 285
 Ile Arg Pro Gly His His Glu Leu Phe Ile Val Thr Asn Ser Gly Thr
 290 295 300
 Glu Pro Gly Gly Ala Met Ile Phe Arg Ser Gly Ala Phe Ala Pro Ala
 305 310 315 320
 Pro Leu Pro Phe
 325

<210> 6932

<211> 187

<212> PRT

<213> Enterobacter cloacae

<400> 6932

Arg Leu Ser Gly Lys Pro Ala Trp Cys Lys Ala Thr Cys Pro Arg Glu
 1 5 10 15
 Lys Gly Asp Lys Ile Glu Ser Thr Cys Gln Ile Val Ile Arg Cys Ala
 20 25 30
 Leu Phe Gly Arg Val Lys Phe Pro Met Lys Asn Ile Pro Phe Trp Gln
 35 40 45
 Ser Lys Thr Phe Asp Asp Met Thr Asp Ala Glu Trp Glu Ser Leu Cys
 50 55 60
 Asp Gly Cys Gly Gln Cys Cys Leu His Lys Leu Met Asp Glu Asp Ser
 65 70 75 80
 Asp Glu Ile Tyr Phe Thr Asn Val Ala Cys Lys Gln Leu Asn Ile Lys
 85 90 95
 Thr Cys Gln Cys Arg Asn Tyr Glu Arg Arg Phe Glu Tyr Glu Pro Asp
 100 105 110
 Cys Ile Lys Leu Thr Arg Glu Asn Leu Pro Thr Phe Glu Trp Leu Pro
 115 120 125
 His Thr Cys Ala Tyr Arg Leu Leu Ala Glu Gly Lys Asp Leu Pro Thr
 130 135 140
 Trp His Pro Leu Leu Thr Gly Ser Lys Ala Ala Met His Gly Glu Arg
 145 150 155 160
 Ile Ser Val Arg His Ile Ala Val Lys Glu Ser Glu Val Arg Asp Trp
 165 170 175
 Glu Asp His Ile Met Asn His Pro Asn Arg
 180 185

<210> 6933

<211> 298

<212> PRT

<213> Enterobacter cloacae

<400> 6933

Asp Lys Thr Ser Val Tyr Ala Lys Met Ala Ala Glu Arg Gly Ile Lys
 1 5 10 15
 Pro Phe Val Asn Phe Ile Lys Met Lys Arg Arg Ser Leu Phe Ser Val
 20 25 30
 Ser Ala Ala Leu Ser Ala Ser Ala Arg Leu Trp Tyr Asp Glu Cys Asn
 35 40 45
 Leu Leu Lys Leu Cys Asn Gly Asn Leu Thr Met Val Ile Lys Ala Gln
 50 55 60
 Ser Pro Ala Gly Phe Ala Glu Glu Tyr Ile Ile Glu Ser Ile Trp Asn

65					70					75				80
Asn	Arg	Phe	Pro	Ala	Gly	Ser	Ile	Leu	Pro	Ala	Glu	Arg	Glu	Leu
				85					90					95
Glu	Leu	Ile	Gly	Val	Thr	Arg	Thr	Thr	Leu	Arg	Glu	Val	Leu	Gln
			100					105					110	
Leu	Ala	Arg	Asp	Gly	Trp	Leu	Thr	Ile	Gln	His	Gly	Lys	Pro	Thr
			115				120					125		
Val	Asn	Asn	Phe	Trp	Glu	Thr	Ser	Gly	Leu	Asn	Ile	Leu	Glu	Thr
	130					135					140			
Ala	Arg	Leu	Asp	His	Glu	Ser	Val	Pro	Gln	Leu	Ile	Asp	Asn	Leu
145					150				155					160
Ser	Val	Arg	Thr	Asn	Ile	Ala	Thr	Ile	Phe	Ile	Arg	Thr	Ala	Phe
				165					170					175
Gln	His	Pro	Glu	Asp	Ala	Leu	Lys	Val	Leu	Ala	Thr	Ala	Asn	Glu
			180					185					190	
Glu	Asp	His	Ala	Asp	Ala	Phe	Ala	Thr	Leu	Asp	Tyr	Asn	Val	Phe
	195						200					205		
Gly	Leu	Ala	Phe	Ala	Ser	Gly	Asn	Pro	Val	Tyr	Gly	Leu	Ile	Leu
	210					215					220			
Gly	Met	Lys	Gly	Leu	Tyr	Thr	Arg	Ile	Gly	Arg	His	Tyr	Phe	Ala
225					230				235					240
Pro	Glu	Ala	Arg	Ser	Leu	Ala	Leu	Gly	Phe	Tyr	His	Lys	Leu	Ser
				245					250					255
Leu	Cys	Thr	Glu	Gly	Leu	His	Asp	Gln	Val	Tyr	Glu	Thr	Val	Arg
			260					265					270	
Tyr	Gly	His	Asp	Ser	Gly	Glu	Ile	Trp	His	Arg	Met	Gln	Lys	Thr
	275					280						285		
Pro	Gly	Asp	Leu	Ala	Ile	Gln	Gly	Arg						
	290					295								

<210> 6934

<211> 445

<212> PRT

<213> Enterobacter cloacae

<400> 6934

Leu	Asp	Asp	Cys	Ser	Phe	Ala	His	Asn	Gly	Val	Ala	Met	Arg	Val	Val
1				5					10					15	
Ile	Leu	Gly	Ser	Gly	Val	Val	Gly	Val	Thr	Ser	Ala	Trp	Tyr	Leu	Ser
			20					25					30		
Gln	Ala	Gly	His	Glu	Val	Thr	Val	Ile	Asp	Arg	Glu	Ser	Gly	Pro	Ala
	35						40					45			
Leu	Glu	Thr	Ser	Ala	Ala	Asn	Ala	Gly	Gln	Ile	Ser	Pro	Gly	Tyr	Ala
	50					55					60				
Ala	Pro	Trp	Ala	Ala	Pro	Gly	Val	Pro	Leu	Lys	Ala	Ile	Lys	Trp	Met
65					70				75					80	
Phe	Gln	Arg	His	Ala	Pro	Leu	Ala	Ile	Ser	Leu	Asp	Gly	Thr	Gln	Phe
			85					90					95		
Gln	Leu	Lys	Trp	Met	Trp	Gln	Met	Leu	Arg	Asn	Cys	Asp	Thr	Arg	His
			100				105						110		
Tyr	Met	Glu	Asn	Lys	Gly	Arg	Met	Val	Arg	Leu	Ala	Glu	Tyr	Ser	Arg
	115					120						125			
Asp	Cys	Leu	Lys	Ala	Leu	Arg	Ala	Ser	Thr	Gly	Ile	Glu	Tyr	Glu	Gly
	130					135					140				
Arg	Gln	Gly	Gly	Thr	Leu	Gln	Leu	Phe	Arg	Thr	Ala	Gln	Gln	Tyr	Glu
145					150				155						160
Asn	Ala	Thr	Arg	Asp	Ile	Ala	Val	Leu	Glu	Asp	Ala	Gly	Val	Pro	Tyr
				165					170					175	
Gln	Leu	Leu	Glu	Ala	Ser	Gln	Leu	Ala	Gln	Val	Glu	Pro	Ala	Leu	Ala
			180					185					190		
Glu	Val	Ala	His	Lys	Leu	Thr	Gly	Gly	Leu	Arg	Leu	Pro	Asn	Asp	Glu


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<210> 6935
<211> 360
<212> PRT
<213> Enterobacter cloacae
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<400> 6935															
Gly 1	Val	Ala	Met	Ser 5	Arg	Pro	Ile	Leu	Ala 10	Gln	Leu	Asp	Leu	Gln 15	Ala
Leu	Lys	Asp	Asn 20	Leu	Gln	Ile	Val	Arg 25	Arg	Ala	Ala	Pro	Gly 30	Ser	Arg
Val	Trp	Ser	Val 35	Val	Lys	Ala	Asn 40	Ala	Tyr	Gly	His	Gly 45	Ile	Asp	Arg
Ile	Trp 50	Ser	Ala	Leu	Gly	Ala 55	Thr	Asp	Gly	Phe	Ala 60	Leu	Leu	Asn	Leu
Glu 65	Glu	Ala	Ile	Leu	Leu	Arg 70	Glu	Arg	Gly	Trp 75	Lys	Gly	Pro	Ile	Leu 80
Leu	Leu	Glu	Gly	Phe 85	Phe	His	Ala	Gln	Asp 90	Leu	Pro	Leu	Leu	Asp 95	Lys
Tyr	Arg	Leu	Thr 100	Thr	Ser	Val	His	Ser 105	Asn	Trp	Gln	Ile	Lys 110	Ala	Ile
Gln	Asp	Ala 115	Lys	Leu	His	Ala 120	Pro	Leu	Asp	Ile	Tyr	Leu 125	Lys	Val	Asn
Ser	Gly 130	Met	Asn	Arg	Leu	Gly 135	Phe	Gln	Pro	Glu	Arg	Val 140	His	Thr	Val
Trp 145	Gln	Gln	Leu	Arg	Ala 150	Leu	Lys	Asn	Val	Gly 155	Glu	Met	Thr	Leu	Met 160
Ala	His	Phe	Ala	Asp 165	Ala	Glu	Lys	Pro	Asp 170	Gly	Ile	Ala	Asp	Ala 175	Met
Val	Arg	Ile	Glu	Gln	Ala	Ala	Glu	Gly	Leu	Asp	Cys	Pro	Arg	Ser	Leu

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<210> 6936
<211> 211
<212> PRT
<213> Enterobacter cloacae
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<210> 6937
<211> 257

<212> PRT

<213> Enterobacter cloacae

<400> 6937

```

Pro Arg Asp Ser Leu Ser Ser Ile Glu Glu Pro Ser Gly Val Ser Ser
1          5          10          15
Tyr Ser Glu Gln Phe Leu Lys Gln Asn Pro Leu Ala Val Leu Gly Val
          20          25          30
Leu Arg Asp Leu Lys Lys Gly Glu Val Pro Leu Arg Ile Asn Trp Ser
          35          40          45
Thr Ser Gln Phe Ile Ser Lys Ile Leu Asp Val Thr Ala Glu His Leu
          50          55          60
Ile Val Asp Leu Gly Ser Gln Ser Asp Glu Asn Arg Ala Ala Leu Gln
65          70          75          80
Ala Glu Asn Leu Ser Val Met Ala Glu Thr Gln Gly Ala Lys Val Glu
          85          90          95
Phe Val Leu Pro Arg Leu Thr Ala Ile Ala Tyr Gln Asp Leu Pro Ala
          100          105          110
Phe Ile Ala Pro Leu Pro Ala Asn Leu Trp Phe Val Gln Arg Arg Glu
          115          120          125
Phe Phe Arg Ile Ser Ala Pro Leu His Pro Ala Tyr Phe Cys Lys Ala
          130          135          140
Lys Met Pro Asp Lys Lys Glu Ile Arg Phe Arg Leu Phe Asp Leu Ser
145          150          155          160
Leu Gly Gly Met Gly Ala Leu Met Asp Thr Pro Lys Pro Glu Gly Leu
          165          170          175
Val Glu Gly Met Arg Phe Ser Gln Ile Glu Leu Asp Met Gly Gly Trp
          180          185          190
Gly Arg Phe Trp Phe Asp Ala Gln Leu Ile Ala Ile Ser Glu Arg Lys
          195          200          205
Val Val Asp Ser Lys Asn Glu Thr Ile Thr Thr Pro Arg Leu Ser Phe
          210          215          220
Arg Phe Leu Asn Val Gly Pro Gly Ala Glu Arg Glu Leu Gln Arg Ile
225          230          235          240
Ile Phe Ser Leu Glu Arg Glu Ala Arg Glu Arg Ala Asn Lys Val Arg
          245          250          255

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<210> 6938

<211> 313

<212> PRT

<213> Enterobacter cloacae

<400> 6938

```

Ile Leu Ile Gln Gln Gly Ile Ala Met Pro Gln Phe His Leu Ile Ala
1          5          10          15
Pro Ser Gly Tyr Cys Ile Asn Gln Glu Ala Ala Gln Arg Gly Val Gln
          20          25          30
Arg Leu Leu Glu Met Gly His Gln Val Glu Asn Gln Thr Ile Ile Pro
          35          40          45
Arg Arg Met Gln Arg Phe Ala Gly Thr Glu Ala Gln Arg Leu Ser Asp
          50          55          60
Ile Asn Ser Leu Ala Thr Leu Glu Gly Glu Asn Thr Ile Val Leu Ala
65          70          75          80
Val Arg Gly Gly Tyr Gly Ala Ser Arg Leu Leu Glu Ser Ile Asp Trp
          85          90          95
Ala Gly Leu Ala Ala Arg Gln Gln Gln Asp Pro Leu Leu Ile Cys Gly
          100          105          110
His Ser Asp Phe Thr Ala Ile Gln Leu Gly Leu Leu Ala Leu His Asn
          115          120          125

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Val Ile Thr Phe Ser Gly Pro Met Leu Ala Gly Asn Phe Gly Ala Pro
 130 135 140
 Glu Leu Asp Ala Phe Thr Gln Asp His Phe Trp Arg Ala Leu Gln Asn
 145 150 155 160
 Pro Thr Phe Thr Ile Glu Trp Gln Gly Asn Gly Pro His Trp Glu Cys
 165 170 175
 Glu Gly Gln Leu Trp Gly Gly Asn Leu Ala Met Leu Val Ser Leu Ile
 180 185 190
 Gly Thr Pro Trp Leu Pro Gln Ile Thr Asp Gly Ile Leu Val Leu Glu
 195 200 205
 Asp Ile Asn Glu His Pro Phe Arg Val Glu Arg Met Leu Leu Gln Leu
 210 215 220
 Ser His Ala Gly Ile Leu Asp Arg Gln Ser Ala Ile Val Leu Gly Ser
 225 230 235 240
 Phe Ser Gly Ser Ala Pro Asn Asp Tyr Asp Ala Gly Tyr Ser Leu Glu
 245 250 255
 Thr Met Ile Asp Phe Ile Arg Ser Arg Leu Asp Ile Pro Val Ile Ala
 260 265 270
 Gly Leu Asp Phe Gly His Glu Gln Thr Val Thr Leu Pro Leu Gly
 275 280 285
 Ala Arg Ala His Leu Val His Asp Asn Ser Gly Ser Arg Leu Thr Ile
 290 295 300
 Ser Gly His Pro Val Leu Lys Ala
 305 310

<210> 6939

<211> 184

<212> PRT

<213> Enterobacter cloacae

<400> 6939

Ala Cys Ser Arg Glu Met Ile Met Leu Arg Phe Leu Asn Gln Cys Ser
 1 5 10 15
 Arg Gly Arg Gly Ala Trp Leu Leu Met Ala Leu Thr Ala Phe Ala Leu
 20 25 30
 Glu Met Val Ala Leu Trp Phe Gln His Val Met Gly Leu Lys Pro Cys
 35 40 45
 Val Leu Cys Ile Tyr Glu Arg Cys Ala Leu Phe Gly Ile Met Gly Ala
 50 55 60
 Gly Leu Val Gly Ala Ile Ala Pro Lys Ser Pro Leu Arg Tyr Ala Ala
 65 70 75 80
 Ile Ala Ile Trp Leu Tyr Ser Ala Gly Lys Gly Ile Ala Leu Ala Trp
 85 90 95
 Glu His Thr Gln Met Gln Leu His Pro Ser Pro Phe Met Thr Cys Asp
 100 105 110
 Phe Ala Ala Arg Phe Pro Ser Trp Leu Pro Leu Asp Lys Trp Leu Pro
 115 120 125
 Gln Val Phe Val Ala Ser Gly Asp Cys Ser Val Arg Gln Trp Glu Phe
 130 135 140
 Leu Thr Leu Glu Met Pro Gln Trp Leu Val Gly Ile Phe Val Ala Tyr
 145 150 155 160
 Phe Val Val Ala Leu Leu Val Leu Ile Ala Gln Pro Phe Lys Pro Lys
 165 170 175
 Lys Arg Asp Leu Phe Gly Arg
 180

<210> 6940

<211> 584

<212> PRT

<213> Enterobacter cloacae

<400> 6940

Gly	Gly	Ser	Lys	Thr	Thr	Leu	Gly	Ala	Thr	Ala	Ile	Ile	Ser	Leu	Phe
1				5					10					15	
Ile	Leu	Gly	Ser	Ile	Leu	Val	Thr	Phe	Ser	Ile	Leu	Leu	Ser	Ser	Phe
			20					25					30		
Ser	Ser	Arg	Leu	Gly	Ile	Pro	Ile	Leu	Val	Ile	Phe	Leu	Ala	Ile	Gly
		35					40					45			
Met	Leu	Ala	Gly	Ile	Asp	Gly	Ile	Gly	Gly	Ile	Pro	Phe	Asp	Asn	Tyr
	50					55					60				
Pro	Phe	Ala	Tyr	Met	Val	Ser	Asn	Leu	Ala	Leu	Ala	Val	Ile	Leu	Leu
65					70					75					80
Asp	Gly	Gly	Met	Arg	Thr	Gln	Ala	Ser	Ser	Phe	Arg	Val	Ala	Leu	Gly
				85					90					95	
Pro	Ala	Leu	Ser	Leu	Ala	Thr	Val	Gly	Val	Leu	Ile	Thr	Ser	Gly	Leu
			100					105					110		
Thr	Gly	Met	Met	Ala	Ala	Trp	Leu	Phe	Asn	Leu	Asp	Ile	Met	Glu	Gly
	115						120					125			
Leu	Leu	Ile	Gly	Ala	Ile	Val	Gly	Ser	Thr	Asp	Ala	Ala	Ala	Val	Phe
	130						135				140				
Ser	Leu	Leu	Gly	Gly	Lys	Gly	Leu	Asn	Glu	Arg	Val	Gly	Ser	Thr	Leu
145					150					155					160
Glu	Ile	Glu	Ser	Gly	Ser	Asn	Asp	Pro	Met	Ala	Val	Phe	Leu	Thr	Ile
				165					170					175	
Thr	Leu	Ile	Glu	Met	Ile	Gln	Gln	His	Glu	Thr	Gly	Leu	Ser	Trp	Met
			180					185					190		
Phe	Ala	Trp	His	Ile	Leu	Gln	Gln	Phe	Gly	Leu	Gly	Ile	Ile	Ile	Gly
	195						200					205			
Leu	Gly	Gly	Gly	Tyr	Leu	Leu	Gln	Gln	Thr	Ile	Asn	Arg	Ile	Thr	Leu
	210					215					220				
Pro	Ser	Gly	Leu	Tyr	Pro	Leu	Leu	Ala	Leu	Ser	Gly	Gly	Ile	Leu	Ile
225					230					235					240
Phe	Ala	Val	Thr	Thr	Ala	Leu	Asp	Gly	Ser	Gly	Ile	Leu	Ala	Val	Tyr
				245					250					255	
Leu	Cys	Gly	Phe	Leu	Leu	Gly	Asn	Arg	Pro	Ile	Arg	Asn	Arg	His	Ala
			260					265					270		
Ile	Leu	Gln	Asn	Phe	Asp	Gly	Leu	Ala	Trp	Leu	Ala	Gln	Ile	Ala	Met
	275						280					285			
Phe	Leu	Val	Leu	Gly	Leu	Leu	Val	Thr	Pro	Ser	Asp	Leu	Leu	Pro	Ile
	290					295					300				
Ala	Val	Pro	Ala	Leu	Leu	Leu	Ser	Ala	Trp	Met	Ile	Phe	Phe	Ala	Arg
305					310					315					320
Pro	Leu	Ser	Val	Phe	Ala	Gly	Leu	Leu	Pro	Phe	Arg	Gly	Phe	Asn	Leu
				325					330					335	
Arg	Glu	Arg	Ile	Phe	Ile	Ser	Trp	Val	Gly	Leu	Arg	Gly	Ala	Val	Pro
			340					345					350		
Ile	Ile	Leu	Ala	Val	Phe	Pro	Met	Ala	Gly	Leu	Asp	Asn	Ala	Arg	
	355						360				365				
Leu	Phe	Phe	Asn	Val	Ala	Phe	Phe	Val	Val	Leu	Val	Ser	Leu	Leu	Phe
	370					375					380				
Gln	Gly	Thr	Ser	Leu	Gly	Trp	Ala	Ala	Lys	Lys	Ala	Lys	Val	Val	Val
385					390					395					400
Pro	Pro	Ile	Gly	Trp	Pro	Val	Ser	Arg	Val	Gly	Leu	Asp	Ile	His	Pro
				405					410					415	
Glu	Asn	Pro	Trp	Glu	Gln	Phe	Val	Tyr	Gln	Leu	Ser	Ala	Asp	Lys	Trp
			420					425					430		
Cys	Val	Gly	Ala	Ser	Leu	Arg	Asp	Leu	His	Met	Pro	Ala	Glu	Thr	Arg
		435					440					445			
Ile	Ala	Ala	Leu	Phe	Arg	Asp	Asn	Ala	Leu	Leu	His	Pro	Thr	Gly	Ser
	450					455					460				
Thr	Arg	Leu	Arg	Glu	Asn	Asp	Ile	Leu	Cys	Val	Ile	Gly	Arg	Glu	Arg
465					470					475					480

Asp Leu Pro Ala Leu Gly Lys Leu Phe Ser Gln Ser Pro Pro Val Ala
 485 490 495
 Leu Asp Gln Arg Phe Phe Gly Asp Phe Ile Leu Glu Ala Ser Ala Arg
 500 505 510
 Phe Ala Asp Val Ala Leu Ile Tyr Gly Leu Glu Gly Gly Leu Glu Asn
 515 520 525
 Arg Asp Asn Gln Gln Thr Leu Gly Glu Ile Ile Gln Gln Leu Leu Gly
 530 535 540
 Ala Ala Pro Val Val Gly Asp Gln Val Glu Phe Ala Gly Met Ile Trp
 545 550 555 560
 Thr Val Ala Glu Lys Glu Asp Asn Ala Val Arg Lys Val Gly Val Arg
 565 570 575
 Pro Met Glu Glu Glu Ala Glu
 580

<210> 6941

<211> 527

<212> PRT

<213> Enterobacter cloacae

<400> 6941

Lys Glu Ala Leu Gln Ser Glu Arg Ala Thr Asn Asn Glu Gly Ala Leu
 1 5 10 15
 Met Ala Thr Leu Asp Ser Met Ser Arg Asp Ser Thr Arg Leu Ser Asp
 20 25 30
 Gly Pro Asp Trp Thr Phe Glu Leu Leu Asp Val Tyr Leu Ala Glu Ile
 35 40 45
 Asp Arg Val Ala Lys Leu Tyr Arg Leu Asp Thr Tyr Pro His Gln Ile
 50 55 60
 Glu Val Ile Thr Ser Glu Gln Met Met Asp Ala Tyr Ser Ser Val Gly
 65 70 75 80
 Met Pro Ile Asn Tyr Pro His Trp Ser Phe Gly Lys Lys Phe Ile Glu
 85 90 95
 Thr Glu Arg Leu Tyr Lys His Gly Gln Gln Gly Leu Ala Tyr Glu Ile
 100 105 110
 Val Ile Asn Ser Asn Pro Cys Ile Ala Tyr Leu Met Glu Glu Asn Thr
 115 120 125
 Ile Thr Met Gln Ala Leu Val Met Ala His Ala Cys Tyr Gly His Asn
 130 135 140
 Ser Phe Phe Lys Asn Asn Tyr Leu Phe Arg Ser Trp Thr Asp Ala Ser
 145 150 155 160
 Ser Ile Val Asp Tyr Leu Ile Phe Ala Arg Asn Tyr Ile Thr Asp Cys
 165 170 175
 Glu Glu Arg Tyr Gly Val Asp Glu Val Glu Lys Leu Leu Asp Ser Cys
 180 185 190
 His Ala Leu Met Asn Tyr Gly Val Asp Arg Tyr Lys Arg Pro Gln Lys
 195 200 205
 Ile Ser Leu Gln Glu Glu Lys Ala Arg Gln Lys Ser Arg Glu Glu Tyr
 210 215 220
 Leu Gln Ser Gln Val Asn Met Leu Trp Arg Thr Leu Pro Lys Arg Glu
 225 230 235 240
 Glu Glu Lys Thr Val Ala Glu Ala Arg Arg Tyr Pro Ser Glu Pro Gln
 245 250 255
 Glu Asn Leu Leu Tyr Phe Met Glu Lys Asn Ala Pro Leu Leu Glu Pro
 260 265 270
 Trp Gln Arg Glu Ile Leu Arg Ile Val Arg Lys Val Ser Gln Tyr Phe
 275 280 285
 Tyr Pro Gln Lys Gln Thr Gln Val Met Asn Glu Gly Trp Ala Thr Phe
 290 295 300
 Trp His Tyr Thr Ile Leu Asn His Leu Tyr Asp Glu Gly Lys Val Ser
 305 310 315 320

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<210> 6942
<211> 540
<212> PRT
<213> Enterobacter cloacae
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Cys 1	Leu	Val	Leu	Phe 5	Asp	Gly	Glu	Arg	Thr 10	Ser	Val	Val	Glu	Ile 15	Ser
Phe	Gly	Arg	Ala 20	Leu	Trp	Arg	Asn 25	Phe	Leu	Gly	Gln	Ser	Pro 30	Asp	Trp
Tyr	Lys	Leu 35	Thr	Leu	Leu	Val	Phe 40	Leu	Val	Val	Asn 45	Pro	Val	Ile	Phe
Leu	Leu 50	Asp	Pro	Phe	Val	Ala 55	Gly	Trp	Met	Leu	Val 60	Ala	Glu	Phe	Ile
Phe 65	Thr	Leu	Ala	Met 70	Ala	Leu	Lys	Cys	Tyr 75	Pro	Leu	Leu	Pro	Gly 80	Gly
Leu	Leu	Ala	Leu	Glu 85	Ala	Val	Val	Ile	Gly 90	Met	Thr	Ser	Ala	Glu 95	His
Val	Lys	Asn 100	Glu	Ile	Ala	Ser	Asn 105	Leu	Glu	Val	Leu	Leu 110	Leu	Leu	Ile
Phe	Met	Val 115	Ala	Gly	Ile	Tyr	Phe 120	Met	Lys	Gln	Leu	Leu 125	Leu	Phe	Ile
Phe	Thr 130	Arg	Leu	Leu	Leu	Ser 135	Ile	Pro	Ser	Lys	Thr 140	Leu	Leu	Ser	Leu
Ala 145	Phe	Cys	Leu	Ala 150	Ala	Phe	Val	Ser	Ala 155	Phe	Leu	Asp	Ala	Leu 160	
Thr	Val	Val	Ala 165	Val	Val	Ile	Ser	Val 170	Ala	Val	Gly	Phe	Tyr	Gly 175	Ile
Tyr	His	Arg 180	Val	Ala	Ser	Ser	Arg 185	Pro	Gly	Asp	Asn	Leu 190	Gln	Asp	Asp
Ser	His 195	Val	Glu	Ala	His	Asn 200	Arg	Asp	Val	Leu	Glu 205	Gln	Phe	Arg	Ala
Phe	Leu 210	Arg	Ser	Leu	Met 215	Met	His	Ala	Gly	Val 220	Gly	Thr	Ala	Leu	Gly

Gly Val Met Thr Met Val Gly Glu Pro Gln Asn Leu Ile Ile Ala Lys
 225 230 235 240
 Ala Ala Glu Trp His Phe Gly Glu Phe Phe Leu Arg Met Ala Pro Val
 245 250 255
 Ser Val Pro Val Leu Val Cys Gly Leu Ala Thr Cys Val Leu Val Glu
 260 265 270
 Lys Phe Asn Leu Phe Gly Tyr Gly Ala Thr Leu Pro Asp Gln Val Arg
 275 280 285
 Gln Glu Leu His Lys Phe Asp Glu Gln Ser Arg Lys Gln Arg Thr Arg
 290 295 300
 Gln Glu Thr Leu Arg Leu Ile Ala Gln Gly Phe Ile Gly Val Trp Leu
 305 310 315 320
 Ile Ala Ala Leu Ala Phe His Leu Ala Glu Val Gly Leu Ile Gly Leu
 325 330 335
 Ser Val Ile Ile Leu Ala Thr Ser Leu Gly Gly Val Thr Asp Glu His
 340 345 350
 Ala Ile Gly Lys Ala Phe Thr Glu Ala Leu Pro Phe Thr Ala Leu Leu
 355 360 365
 Ala Val Phe Phe Ala Val Val Ala Val Ile Ile Asp Gln His Leu Phe
 370 375 380
 Ala Pro Ile Ile Ala Phe Val Leu Gln Ala Thr Pro Asp Ser Gln Leu
 385 390 395 400
 Thr Leu Phe Tyr Leu Phe Asn Gly Leu Leu Ser Ser Ile Ser Asp Asn
 405 410 415
 Val Phe Val Gly Thr Val Tyr Ile Asn Glu Ala Lys Ala Ala Met Glu
 420 425 430
 Gln Gly Ile Val Ser Ser Glu Gln Phe Glu Leu Leu Ala Val Ala Ile
 435 440 445
 Asn Thr Gly Thr Asn Leu Pro Phe Arg Gly Asn Pro Glu Arg Ser Gly
 450 455 460
 Gly Ile Pro Leu Pro Ala Asp Leu Gly Ala Gly Thr Thr His Thr Thr
 465 470 475 480
 Phe Leu Trp Lys Asn Gly Leu Asp Gly Ala Ala Val Tyr Ala Gly Ala
 485 490 495
 Tyr Pro Gly Trp Phe Thr Val His Gln Asn Tyr Ser Arg Ser Leu Tyr
 500 505 510
 Ala Met Val Ile Ala Ser Arg Tyr Thr Cys Gly Ala Leu Lys Phe Val
 515 520 525
 Tyr Thr Ala Leu Ser Lys His Val Pro Gly Lys
 530 535 540

<210> 6943

<211> 125

<212> PRT

<213> Enterobacter cloacae

<400> 6943

Arg Cys Ser Ile Cys Leu Thr Val Cys Cys Pro Leu Tyr Pro Ile Thr
 1 5 10 15
 Ser Leu Ser Gly Arg Tyr Thr Ser Met Arg Pro Lys Pro Arg Trp Ser
 20 25 30
 Lys Gly Leu Ser Ala Val Asn Ser Ser Ser Cys Trp Arg Trp Arg Ser
 35 40 45
 Thr Pro Glu Pro Thr Ser Pro Ser Val Ala Thr Pro Asn Gly Gln Ala
 50 55 60
 Ala Phe Leu Phe Leu Leu Thr Ser Ala Leu Ala Pro Leu Ile Arg Leu
 65 70 75 80
 Ser Tyr Gly Arg Met Val Trp Met Ala Leu Pro Tyr Thr Leu Val Leu
 85 90 95
 Thr Leu Val Gly Leu Leu Cys Ile Lys Ile Thr Leu Val Pro Cys Thr
 100 105 110

Gln Trp Leu Leu Gln Ala Gly Ile Leu Ala Ala His
 115 120 125

<210> 6944

<211> 62

<212> PRT

<213> Enterobacter cloacae

<400> 6944

Asn Ser Phe Thr Leu Arg Cys Leu Ser Met Phe Gln Gly Asn Asp Tyr
 1 5 10 15
 Val Ala Ile Phe Glu Pro Val Leu Thr Arg Ser Arg Ser Val Val Val
 20 25 30
 Asp Gly Pro Asp Arg Leu Cys Ala Gly Asn Gly Arg Ala Val Val Ser
 35 40 45
 Ala Cys Asp Gly Ala Glu Thr Leu Arg Thr Val Tyr Leu
 50 55 60

<210> 6945

<211> 195

<212> PRT

<213> Enterobacter cloacae

<400> 6945

Ile Met Thr Asp Tyr Leu Leu Leu Phe Val Gly Thr Val Leu Val Asn
 1 5 10 15
 Asn Phe Val Leu Val Lys Phe Leu Gly Leu Cys Pro Phe Met Gly Val
 20 25 30
 Ser Lys Lys Leu Glu Thr Ala Met Gly Met Gly Leu Ala Thr Thr Phe
 35 40 45
 Val Met Thr Met Ala Ser Ile Cys Ala Trp Leu Ile Asp Thr Trp Ile
 50 55 60
 Leu Ile Pro Leu Asp Met Leu Tyr Leu Arg Thr Leu Ala Phe Ile Leu
 65 70 75 80
 Val Ile Ala Val Val Val Gln Phe Thr Glu Met Val Val Arg Lys Thr
 85 90 95
 Ser Pro Ala Leu Tyr Arg Leu Leu Gly Ile Phe Leu Pro Leu Ile Thr
 100 105 110
 Thr Asn Cys Ala Val Leu Gly Val Ala Leu Leu Asn Ile Asn Leu Gly
 115 120 125
 His Asn Phe Leu Gln Ser Ala Leu Tyr Gly Phe Ser Ala Ala Val Gly
 130 135 140
 Phe Ser Phe Val Met Val Leu Phe Ala Ser Ile Arg Glu Arg Leu Ala
 145 150 155 160
 Ala Ala Asp Ile Pro Ala Pro Phe Arg Gly Asn Ala Ile Ala Leu Val
 165 170 175
 Thr Ala Gly Leu Met Ser Leu Ala Phe Met Gly Phe Ser Gly Leu Val
 180 185 190
 Lys Leu
 195

<210> 6946

<211> 702

<212> PRT

<213> Enterobacter cloacae

<400> 6946

Asn Tyr Ala Arg Leu Lys Arg Leu Pro Lys Thr Gly Ser Gly Thr Phe
 1 5 10 15
 Arg Pro Phe Arg Phe Ala Ile Phe Leu Trp Asn Asn Met Leu Lys Leu
 20 25 30

Phe	Ser	Ala	Phe	Arg	Lys	Glu	Lys	Ile	Trp	Asp	Phe	Asp	Gly	Gly	Ile
		35					40					45			
His	Pro	Pro	Glu	Met	Lys	Ser	Gln	Ser	Asn	Gly	Thr	Pro	Leu	Arg	Gln
	50					55					60				
Ile	Pro	Leu	Ala	Thr	Arg	Tyr	Val	Met	Pro	Leu	Lys	Gln	His	Ile	Gly
65					70					75					80
Ala	Glu	Gly	Glu	Leu	Cys	Val	Lys	Glu	Gly	Asp	Ser	Val	Leu	Arg	Gly
				85					90					95	
Gln	Pro	Leu	Thr	Phe	Gly	Arg	Gly	Arg	Met	Leu	Pro	Ile	His	Ala	Pro
			100					105					110		
Thr	Ser	Gly	Lys	Val	Val	Ala	Val	Ala	Pro	His	Thr	Val	Ala	His	Pro
		115						120				125			
Ser	Ala	Leu	Ser	Glu	Leu	Ser	Val	Ile	Ile	Glu	Ala	Asp	Gly	Glu	Asp
	130					135					140				
Arg	Trp	Ile	Glu	Arg	Asp	Gly	Trp	Ser	Asp	Tyr	Arg	Ser	His	Ser	Arg
145					150					155					160
Glu	Ala	Leu	Ile	Glu	Arg	Ile	His	Gln	Phe	Gly	Val	Ala	Gly	Leu	Gly
				165					170					175	
Gly	Ala	Gly	Phe	Pro	Thr	Gly	Ala	Lys	Leu	His	Gly	Gly	Gly	Asp	Lys
			180					185					190		
Ile	Glu	Thr	Leu	Ile	Ile	Asn	Ala	Ala	Glu	Cys	Glu	Pro	Tyr	Ile	Thr
		195					200					205			
Ala	Asp	Asp	Arg	Leu	Met	Gln	Asp	Cys	Ala	Ala	Gln	Val	Val	Glu	Gly
	210					215					220				
Ile	Arg	Ile	Leu	Ala	His	Ile	Leu	Gln	Pro	Arg	Glu	Val	Leu	Ile	Gly
225					230					235					240
Ile	Glu	Asp	Asn	Lys	Pro	Gln	Ala	Ile	Ser	Met	Leu	Arg	Ala	Val	Leu
				245					250					255	
Ala	Asp	Ser	His	Asp	Ile	Ala	Leu	Arg	Val	Ile	Pro	Thr	Lys	Tyr	Pro
			260					265					270		
Ser	Gly	Gly	Ala	Lys	Gln	Leu	Thr	Gln	Ile	Leu	Thr	Gly	Lys	Gln	Val
		275					280					285			
Pro	His	Gly	Gly	Arg	Ser	Ser	Asp	Ile	Gly	Val	Leu	Met	Gln	Asn	Val
	290					295					300				
Gly	Thr	Ala	Tyr	Ala	Val	Lys	Arg	Ala	Val	Ile	Asp	Gly	Glu	Pro	Leu
305					310					315					320
Thr	Glu	Arg	Val	Val	Thr	Leu	Thr	Gly	Glu	Ser	Val	Ser	Arg	Pro	Gly
				325					330					335	
Asn	Ile	Trp	Ala	Arg	Leu	Gly	Thr	Pro	Val	Arg	His	Leu	Leu	Glu	Gln
			340					345					350		
Ala	Gly	Phe	Cys	Pro	Gly	Asn	Asp	Gln	Leu	Val	Ile	Met	Gly	Gly	Pro
		355					360					365			
Leu	Met	Gly	Phe	Thr	Leu	Pro	Trp	Leu	Asp	Val	Pro	Val	Val	Lys	Ile
	370					375					380				
Thr	Asn	Cys	Leu	Leu	Ala	Pro	Ser	Leu	Thr	Glu	Met	Gly	Glu	Thr	Gln
385					390					395					400
Glu	Glu	Lys	Gly	Cys	Ile	Arg	Cys	Ser	Ala	Cys	Ala	Asp	Ala	Cys	Pro
				405					410					415	
Ala	Asp	Leu	Leu	Pro	Gln	Gln	Leu	Tyr	Trp	Tyr	Ser	Lys	Gly	Gln	Leu
			420					425					430		
His	Asp	Lys	Ala	Gln	Ala	His	Asn	Leu	Ala	Asp	Cys	Ile	Glu	Cys	Gly
		435					440					445			
Ala	Cys	Ala	Trp	Val	Cys	Pro	Ser	Asn	Ile	Pro	Leu	Val	Gln	Tyr	Phe
	450					455					460				
Arg	Gln	Glu	Lys	Ala	Glu	Ile	Tyr	Ala	Ile	Ser	Met	Glu	Glu	Lys	Arg
465					470					475					480
Ala	Ala	Glu	Ala	Lys	Ala	Arg	Phe	Glu	Ala	Arg	Gln	Ala	Arg	Leu	Glu
				485					490					495	
Arg	Glu	Lys	Gln	Ala	Arg	Gln	Glu	Arg	His	Lys	Gln	Ala	Ala	Val	Gln
			500					505				510			
Pro	Ala	Ala	Lys	Asp	Gln	Asp	Ala	Ile	Asn	Ala	Ala	Leu	Ala	Arg	Val

Arg	Glu	Lys	Lys	Ala	Thr	Ala	Ala	Gln	Thr	Val	Val	Ile	Ala	Pro	Gly
530						535					540				
Glu	Lys	Pro	Asp	Asn	Ser	Glu	Ala	Ile	Ala	Ala	Arg	Glu	Ala	Arg	Lys
545					550					555					560
Ala	Glu	Ala	Arg	Ala	Arg	Gln	Ala	Glu	Lys	Ala	Gln	Asn	Ala	Lys	Pro
				565					570					575	
Glu	Ala	Asp	Ile	Asp	Pro	Arg	Lys	Ala	Ala	Val	Glu	Ala	Ala	Ile	Ala
			580					585					590		
Arg	Ala	Lys	Ala	Arg	Lys	Ala	Gly	Gln	Gln	Thr	Val	Val	Val	Glu	Gln
		595				600						605			
Glu	Ala	Thr	Asp	Pro	Arg	Lys	Ala	Ala	Val	Glu	Ala	Ala	Ile	Ala	Arg
610						615					620				
Ala	Lys	Ala	Arg	Lys	Ala	Ala	Gln	Leu	Gln	Pro	Ala	Glu	Glu	Ser	Glu
625					630					635					640
Ala	Pro	Val	Asp	Pro	Arg	Lys	Ala	Ala	Val	Glu	Ala	Ala	Ile	Ala	Arg
				645					650					655	
Ala	Lys	Ala	Arg	Lys	Ala	Ala	Gln	Gln	Asp	Glu	Leu	Pro	Ala	Ala	Ala
			660				665						670		
Asn	Asp	Asp	Pro	Arg	Lys	Ala	Ala	Val	Ala	Ala	Ala	Ile	Ala	Arg	Val
		675				680						685			
Gln	Ala	Lys	Lys	Ala	Ala	Gln	Gln	Ala	Val	Asn	Glu	Asp			
690						695					700				

<210> 6947

<211> 351

<212> PRT

<213> Enterobacter cloacae

<400> 6947

Met	Val	Phe	Arg	Ile	Ala	Ser	Ser	Pro	Tyr	Thr	His	Asn	Gln	Arg	Gln
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Thr	Ser	Arg	Ile	Met	Met	Leu	Val	Cys	Leu	Ala	Ala	Leu	Pro	Gly	Ile
			20					25					30		
Ala	Val	Gln	Cys	Trp	Phe	Phe	Gly	Trp	Gly	Thr	Leu	Phe	Gln	Leu	Val
		35				40						45			
Leu	Gly	Cys	Ala	Ser	Ala	Val	Ala	Ala	Glu	Ala	Ala	Ile	Leu	Lys	Leu
50						55					60				
Arg	Lys	Met	Glu	Val	Thr	Arg	Ile	Leu	Ser	Asp	Asn	Ser	Ala	Leu	Leu
65					70					75					80
Thr	Gly	Leu	Leu	Leu	Ala	Ile	Ser	Ile	Pro	Pro	Phe	Ala	Pro	Trp	Trp
				85					90					95	
Met	Val	Val	Leu	Gly	Thr	Val	Phe	Ala	Val	Ile	Ile	Ala	Lys	Gln	Leu
			100					105					110		
Tyr	Gly	Gly	Leu	Gly	His	Asn	Pro	Phe	Asn	Pro	Ala	Met	Ile	Gly	Tyr
		115				120						125			
Val	Val	Leu	Leu	Ile	Ser	Phe	Pro	Val	Gln	Met	Thr	Ser	Trp	Leu	Pro
		130				135					140				
Pro	His	Glu	Ile	Ala	Ala	Thr	Val	Pro	Gly	Phe	Met	Asp	Ala	Leu	His
145					150					155					160
Val	Ile	Phe	Thr	Gly	His	Thr	Ala	Leu	Gly	Ala	Asp	Met	Asn	Ala	Leu
				165					170					175	
Arg	Met	Gly	Val	Asp	Gly	Ile	Ser	Gln	Ala	Thr	Pro	Leu	Asp	Thr	Phe
			180					185					190		
Lys	Thr	Ser	Leu	Arg	Ala	Gly	Gln	Ser	Val	Glu	Gln	Val	Met	Lys	Ser
		195				200						205			
Ser	Ile	Tyr	Ser	Gly	Val	Leu	Ala	Gly	Ala	Gly	Trp	Gln	Trp	Val	Asn
		210				215					220				
Leu	Ala	Tyr	Leu	Leu	Gly	Gly	Ala	Phe	Leu	Leu	Gln	Gln	Lys	Ala	Ile
225					230					235					240
Arg	Trp	His	Ile	Pro	Val	Ser	Phe	Leu	Val	Thr	Leu	Ala	Val	Cys	Ser

				245					250					255			
Thr	Leu	Gly	Trp	Val	Ile	Ser	Pro	Glu	Ser	Leu	Ala	Ser	Pro	Gln	Leu		
			260					265					270				
His	Leu	Leu	Ser	Gly	Ala	Thr	Met	Leu	Gly	Ala	Phe	Phe	Ile	Leu	Thr		
		275					280					285					
Asp	Pro	Val	Thr	Ala	Ser	Thr	Thr	Asn	Arg	Gly	Arg	Leu	Ile	Phe	Gly		
		290				295				300							
Ala	Leu	Ala	Gly	Leu	Leu	Val	Trp	Leu	Ile	Arg	Ser	Phe	Gly	Gly	Tyr		
305				310					315						320		
Pro	Asp	Gly	Val	Ala	Phe	Ala	Val	Leu	Leu	Ala	Asn	Ile	Thr	Val	Pro		
			325					330						335			
Leu	Ile	Asp	Tyr	Thr	Arg	Pro	Arg	Val	Tyr	Gly	His	Arg					
		340					345					350					

<210> 6948

<211> 232

<212> PRT

<213> Enterobacter cloacae

<400> 6948

Gly	Val	Thr	Met	Ser	Gln	Val	Lys	Glu	Val	Ile	Val	Gln	Gly	Leu	Trp		
1			5					10					15				
Lys	Asn	Asn	Ser	Ala	Leu	Val	Gln	Leu	Leu	Gly	Leu	Cys	Pro	Leu	Leu		
		20					25					30					
Ala	Val	Thr	Ser	Thr	Ala	Thr	Asn	Ala	Leu	Gly	Leu	Gly	Leu	Ala	Thr		
		35				40					45						
Thr	Leu	Val	Leu	Thr	Leu	Thr	Asn	Phe	Ser	Ile	Ser	Val	Leu	Arg	Arg		
50				55				60									
Trp	Thr	Pro	Ser	Glu	Ile	Arg	Ile	Pro	Ile	Tyr	Val	Met	Ile	Ile	Ala		
65				70				75						80			
Ser	Val	Val	Ser	Val	Val	Gln	Met	Leu	Ile	Asn	Ala	Tyr	Ala	Phe	Gly		
		85				90							95				
Leu	Tyr	Gln	Ser	Leu	Gly	Ile	Phe	Ile	Pro	Leu	Ile	Val	Thr	Asn	Cys		
		100				105						110					
Ile	Val	Val	Gly	Arg	Ala	Glu	Ala	Phe	Ala	Val	Lys	Asn	Asn	Pro	Ala		
	115			120				125									
Ile	Ser	Ala	Leu	Asp	Gly	Phe	Ser	Ile	Gly	Met	Gly	Ala	Thr	Ala	Ala		
130				135				140									
Met	Phe	Val	Leu	Gly	Ser	Leu	Arg	Glu	Ile	Leu	Gly	Asn	Gly	Thr	Leu		
145			150					155						160			
Phe	Asp	Gly	Ala	Asp	Ala	Leu	Leu	Gly	Gly	Trp	Ala	Lys	Ser	Leu	Arg		
		165				170							175				
Ile	Glu	Val	Phe	His	Thr	Asp	Thr	Pro	Phe	Leu	Leu	Ala	Met	Leu	Pro		
		180				185						190					
Pro	Gly	Ala	Phe	Ile	Gly	Leu	Gly	Met	Met	Leu	Ala	Leu	Lys	Tyr	Leu		
	195				200							205					
Ile	Asp	Glu	Lys	Arg	Lys	Arg	Arg	Ala	Ala	Glu	Arg	Ser	Val	Gln	Glu		
	210			215						220							
Gly	Ile	Pro	Glu	Lys	Ala	Val											
225				230													

<210> 6949

<211> 516

<212> PRT

<213> Enterobacter cloacae

<400> 6949

Thr	Pro	Pro	Leu	Ile	Trp	Asp	Val	Lys	Lys	Glu	Val	Tyr	Val	Ser	Thr		
1			5					10					15				
Ala	Asn	Asn	Lys	Pro	Thr	Asp	Glu	Ser	Val	Ser	Leu	Asn	Ala	Phe	Lys		
		20					25						30				

Gln	Pro	Lys	Ala	Phe	Tyr	Leu	Ile	Phe	Ser	Ile	Glu	Leu	Trp	Glu	Arg
		35					40					45			
Phe	Gly	Tyr	Tyr	Gly	Leu	Gln	Gly	Ile	Met	Ala	Val	Tyr	Leu	Val	Lys
	50					55					60				
Gln	Leu	Gly	Met	Ser	Glu	Ala	Asp	Ser	Ile	Thr	Leu	Phe	Ser	Ser	Phe
65					70					75					80
Ser	Ala	Leu	Val	Tyr	Gly	Leu	Val	Ala	Ile	Gly	Gly	Trp	Leu	Gly	Asp
				85					90					95	
Lys	Val	Leu	Gly	Thr	Lys	Arg	Val	Ile	Met	Leu	Gly	Ala	Val	Val	Leu
			100					105					110		
Ala	Ile	Gly	Tyr	Gly	Leu	Val	Ala	Trp	Ser	Gly	His	Asp	Ala	Gly	Val
		115					120					125			
Val	Tyr	Met	Gly	Met	Ala	Thr	Ile	Ala	Val	Gly	Asn	Gly	Leu	Phe	Lys
	130					135					140				
Ala	Asn	Pro	Ser	Ser	Leu	Leu	Ser	Thr	Cys	Tyr	Ser	Lys	Asp	Asp	Pro
145					150					155					160
Arg	Leu	Asp	Gly	Ala	Phe	Thr	Met	Tyr	Tyr	Met	Ser	Ile	Asn	Ile	Gly
				165					170					175	
Ser	Phe	Phe	Ser	Met	Leu	Ala	Thr	Pro	Trp	Leu	Ala	Ala	Lys	Phe	Gly
			180					185					190		
Trp	Ser	Val	Ala	Phe	Ala	Leu	Ser	Phe	Val	Gly	Met	Leu	Ile	Thr	Val
		195					200					205			
Val	Asn	Phe	Leu	Phe	Cys	Arg	Ser	Trp	Val	Lys	Asp	Tyr	Gly	Ser	Lys
	210					215					220				
Pro	Asp	Phe	Glu	Pro	Val	His	Met	Gly	Lys	Leu	Leu	Ala	Thr	Ile	Val
225					230					235					240
Gly	Ile	Val	Ile	Leu	Ala	Ala	Val	Ala	Thr	Trp	Leu	Leu	His	Asn	Gln
				245					250					255	
Gly	Val	Ala	Arg	Ala	Val	Leu	Gly	Val	Val	Ala	Leu	Gly	Ile	Val	Ile
			260					265					270		
Ile	Phe	Ala	Lys	Glu	Ala	Phe	Ala	Met	Gln	Gly	Ala	Ala	Arg	Arg	Lys
		275					280					285			
Met	Ile	Val	Ala	Phe	Ile	Leu	Met	Leu	Glu	Ala	Ile	Ile	Phe	Phe	Val
	290					295					300				
Leu	Tyr	Ser	Gln	Met	Pro	Thr	Ser	Leu	Asn	Phe	Phe	Ala	Ile	Arg	Asn
305				310						315					320
Val	Glu	His	Ser	Ile	Leu	Gly	Ile	Ala	Phe	Glu	Pro	Glu	Gln	Tyr	Gln
				325					330					335	
Ala	Leu	Asn	Pro	Phe	Trp	Ile	Met	Ile	Gly	Ser	Pro	Ile	Leu	Ala	Ala
			340					345					350		
Ile	Tyr	Asn	Lys	Met	Gly	Asp	Arg	Leu	Pro	Met	Pro	His	Lys	Phe	Ala
		355					360					365			
Ile	Gly	Met	Val	Leu	Cys	Ser	Gly	Ala	Phe	Leu	Val	Leu	Pro	Leu	Gly
	370					375					380				
Thr	Lys	Phe	Ala</												

515

<210> 6950

<211> 213

<212> PRT

<213> Enterobacter cloacae

<400> 6950

```

His Ser Trp Asn Leu Ser Lys Lys Glu Leu Pro Met Lys Leu Phe Tyr
1          5          10          15
Lys Pro Gly Ala Cys Ser Leu Ala Ser His Ile Thr Leu Arg Glu Ser
          20          25          30
Gly Lys Asp Phe Thr Leu Asp Gly Val Asp Leu Met Lys Lys Arg Leu
          35          40          45
Glu Asn Gly Asp Asp Phe Phe Ala Ile Asn Pro Lys Gly Gln Val Pro
          50          55          60
Ala Leu Leu Leu Asp Asp Gly Thr Leu Leu Thr Glu Gly Val Ala Ile
65          70          75          80
Met Gln Phe Leu Ala Asp Asn Val Pro Asp Arg Gln Leu Leu Ala Pro
          85          90          95
Thr Gly Ser Ile Ala Arg Tyr Lys Thr Leu Glu Trp Leu Asn Tyr Ile
          100          105          110
Ala Thr Glu Leu His Lys Gly Phe Thr Pro Leu Phe Arg Pro Asp Thr
          115          120          125
Pro Glu Glu Tyr Lys Pro Thr Val Arg Ala Leu Leu Glu Lys Lys Leu
          130          135          140
Gln Tyr Val Asn Asp Ala Leu Lys Asp Asp Gln Trp Ile Cys Gly Ser
145          150          155          160
Arg Phe Thr Ile Ala Asp Ala Tyr Leu Phe Thr Val Leu Arg Trp Ala
          165          170          175
Arg Ala Val Lys Leu Asn Met Glu Gly Leu Asp His Val Ala Ser Tyr
          180          185          190
Met Thr Arg Val Ala Glu Arg Pro Ala Val Ala Ala Leu Lys Ala
          195          200          205
Glu Gly Leu Asn
210

```

<210> 6951

<211> 115

<212> PRT

<213> Enterobacter cloacae

<400> 6951

```

Phe Phe Ala Lys Lys Thr Pro Asn Phe Val Ala Leu Pro Glu Trp Thr
1          5          10          15
Val Tyr Val Phe Ile Asn Pro Phe Ile Arg Thr His Tyr Leu Tyr
          20          25          30
Gly Tyr Tyr Pro Phe Ile Trp Lys Leu Ile Asn Met Thr Val Gln Asp
          35          40          45
Tyr Leu Leu Lys Phe Arg Lys Ile Asn Ser Leu Glu Ser Leu Glu Lys
          50          55          60
Leu Phe Asp His Leu Asn Tyr Thr Leu Ser Asp Asn Gln Asp Ile Ile
65          70          75          80
Asn Met Tyr Arg Ala Ala Asp His Arg Arg Ala Glu Leu Val Ser Gly
          85          90          95
Gly Arg Leu Phe Asn Val Gly Glu Val Pro Lys Ser Val Trp Arg Tyr
          100          105          110
Val Val
          115

```

<210> 6952

<211> 260
 <212> PRT
 <213> Enterobacter cloacae

<400> 6952

```

Phe Ser Ala Arg Trp Gln Ala Cys Trp Ser Gly Leu Phe Ala Ala Leu
1      5      10      15
Ala Ala Ile Arg Thr Ala Trp His Leu Pro Cys Cys Trp Leu Thr Ser
20      25      30
Pro Phe Arg Ser Ser Thr Thr Thr Arg Val His Ala Cys Thr Val Ile
35      40      45
Ala Lys Gly Arg Ala Met Leu Lys Thr Met Gln Lys His Gly Val Thr
50      55      60
Leu Ala Ile Phe Ala Ala Ala Leu Thr Gly Leu Thr Ala Leu Val Asn
65      70      75      80
Glu Leu Thr Lys Thr Thr Ile Ala Glu Gln Ala Met Lys Gln Gln Lys
85      90      95
Ala Leu Phe Asp Gln Val Ile Pro Ser Asp Leu Tyr Asp Asn Asp Leu
100     105     110
Gln Lys Ser Cys Phe Val Val Gln Ala Pro Gln Leu Gly Lys Gly Pro
115     120     125
His Arg Val Tyr Ile Ala Arg Lys Gly Asp Asn Pro Val Gly Ala Val
130     135     140
Met Glu Ala Thr Ala Pro Asp Gly Tyr Ser Gly Ala Ile Gln Leu Leu
145     150     155     160
Val Gly Ser Asp Phe Ser Gly Thr Val Leu Gly Thr Arg Val Thr Glu
165     170     175
His His Glu Thr Pro Gly Leu Gly Asp Lys Ile Glu Thr Arg Leu Ser
180     185     190
Asp Trp Ile Leu His Phe Ala Gly Lys Met Ile His Gly Glu Asp Asp
195     200     205
Pro Ala Phe Ala Val Lys Lys Asp Gly Gly Glu Phe Asp Gln Phe Thr
210     215     220
Gly Ala Thr Ile Thr Pro Arg Ala Val Val Asn Ala Val Lys Arg Ala
225     230     235     240
Gly Leu Tyr Ala Glu Thr Leu Pro Ala Gln Ile Asn His Leu Ser Thr
245     250     255

Cys Glu Glu
260

```

<210> 6953
 <211> 156
 <212> PRT
 <213> Enterobacter cloacae

<400> 6953

```

His Phe Ala Gln Thr Met Gly Glu Arg Met Thr Ala Leu Pro Gly Glu
1      5      10      15
Arg Ile Gly Gly Trp Leu Ile Ala Pro Leu Ala Trp Leu Leu Val Ala
20      25      30
Leu Leu Ser Ala Ser Leu Ala Leu Leu Leu Tyr Thr Thr Ala Leu Val
35      40      45
Thr Pro His Ala Ile Gln Thr Leu Met Ser Gln Ser Ala Leu Asn Ile
50      55      60
Ala Thr Trp Phe Val Ser Phe Val Phe Ala Ile Ala Met Trp Tyr Tyr
65      70      75      80
Thr Leu Trp Leu Thr Ile Ala Phe Phe Lys Arg Arg Lys Ser Val Pro
85      90      95
Lys His Tyr Ile Ile Trp Leu Leu Val Ser Val Leu Leu Ala Val Lys
100     105     110
Ala Phe Ala Phe Ser Pro Val Ser Asp Ala Leu Ala Val Arg Gln Leu

```

115 120 125
 Leu Phe Pro Leu Leu Ala Thr Ala Leu Leu Val Pro Tyr Phe Lys Arg
 130 135 140
 Ser Thr Arg Val Lys Lys Thr Phe Val Asn Pro
 145 150 155

<210> 6954

<211> 199

<212> PRT

<213> Enterobacter cloacae

<400> 6954

Trp Ser Gly Glu Val Val Met Ser Ala Ile Trp Ile Ala Ile Ala Ser
 1 5 10 15
 Ile Ser Val Leu Gly Leu Val Phe Gly Ile Ile Leu Gly Tyr Ala Ser
 20 25 30
 Arg Arg Phe Ala Val Glu Asp Asp Pro Val Val Glu Lys Ile Asp Glu
 35 40 45
 Leu Leu Pro Gln Ser Gln Cys Gly Gln Cys Gly Tyr Pro Gly Cys Arg
 50 55 60
 Pro Tyr Ala Glu Ala Val Gly Val Gln Gly Glu Lys Ile Asn Arg Cys
 65 70 75 80
 Ala Pro Gly Gly Glu Ala Val Met Leu Lys Ile Ala Ala Leu Leu Asn
 85 90 95
 Val Asp Pro Gln Pro Val Asp Gly Asp Glu Gln Ala Gln Glu Pro Val
 100 105 110
 Arg Ala Leu Ala Val Ile Asp Glu Ala Asn Cys Ile Gly Cys Thr Lys
 115 120 125
 Cys Ile Gln Ala Cys Pro Val Asp Ala Ile Val Gly Ala Thr Arg Ala
 130 135 140
 Met His Thr Val Val Ala Asp Leu Cys Thr Gly Cys Asn Leu Cys Val
 145 150 155 160
 Ala Pro Cys Pro Thr Gln Cys Ile Glu Leu Arg Pro Val Glu Thr Thr
 165 170 175
 Thr Glu Asn Trp Lys Trp Asp Leu Gln Thr Ile Pro Val Arg Asn Ile
 180 185 190
 Pro Val Glu Gln His Ala
 195

<210> 6955

<211> 224

<212> PRT

<213> Enterobacter cloacae

<400> 6955

Thr Gln Arg Thr Gly Arg Asp Pro Arg Glu Ser Ser Met Asn Lys Glu
 1 5 10 15
 Lys Arg Ile Ala Ile Leu Thr Arg Leu Arg Asp Glu Asn Pro His Pro
 20 25 30
 Thr Thr Glu Leu Asn Phe Asn Ser Pro Phe Glu Leu Leu Ile Ala Val
 35 40 45
 Leu Leu Ser Ala Gln Ala Thr Asp Val Ser Val Asn Lys Ala Thr Ala
 50 55 60
 Leu Leu Tyr Pro Val Ala Asn Thr Pro Gln Ala Met Leu Glu Leu Gly
 65 70 75 80
 Val Glu Gly Val Lys Ser Tyr Ile Lys Thr Ile Gly Leu Phe Asn Ser
 85 90 95
 Lys Ala Glu Asn Val Ile Lys Thr Cys Arg Ile Leu Leu Glu Lys His
 100 105 110
 Gly Gly Glu Val Pro Glu Asp Arg Ala Ala Leu Glu Ala Leu Pro Gly
 115 120 125

Val	Gly	Arg	Lys	Thr	Ala	Asn	Val	Val	Leu	Asn	Thr	Ala	Phe	Gly	Trp
130						135				140					
Pro	Thr	Ile	Ala	Val	Asp	Thr	His	Ile	Phe	Arg	Val	Ser	Asn	Arg	Thr
145					150				155						160
Arg	Phe	Ala	Pro	Gly	Lys	Asn	Val	Glu	Glu	Val	Glu	Glu	Lys	Leu	Leu
				165				170						175	
Lys	Val	Val	Pro	Ala	Glu	Phe	Lys	Val	Asp	Cys	His	His	Trp	Leu	Ile
			180					185					190		
Leu	His	Gly	Arg	Tyr	Thr	Cys	Ile	Ala	Arg	Lys	Pro	Arg	Cys	Gly	Ser
	195					200					205				
Cys	Ile	Ile	Glu	Asp	Leu	Cys	Glu	Tyr	Lys	Glu	Lys	Val	Tyr	Pro	
210						215					220				

<210> 6956

<211> 457

<212> PRT

<213> Enterobacter cloacae

<400> 6956

Arg	Thr	Pro	Arg	Trp	Arg	Phe	Ile	Leu	Trp	Ser	Phe	Arg	Ile	Arg	Arg
1			5					10					15		
Lys	Val	Val	Tyr	Arg	Gln	Arg	Cys	Ser	Arg	Leu	Tyr	Met	Glu	Asn	Leu
			20				25					30			
Met	Ala	Ser	Ser	Asn	Leu	Ile	Lys	Gln	Leu	Gln	Glu	Arg	Gly	Leu	Val
	35			40			45					45			
Ala	Gln	Val	Thr	Asp	Glu	Glu	Ala	Leu	Ala	Glu	Arg	Leu	Ala	Gln	Gly
	50			55			60					60			
Pro	Ile	Ala	Leu	Tyr	Cys	Gly	Phe	Asp	Pro	Thr	Ala	Asp	Ser	Leu	His
65				70			75					80			
Leu	Gly	His	Leu	Val	Pro	Leu	Leu	Cys	Leu	Lys	Arg	Phe	Gln	Met	Ala
			85				90					95			
Gly	His	Lys	Pro	Val	Ala	Leu	Val	Gly	Gly	Ala	Thr	Gly	Leu	Ile	Gly
			100				105					110			
Asp	Pro	Ser	Phe	Lys	Ala	Ala	Glu	Arg	Lys	Leu	Asn	Thr	Glu	Asp	Thr
	115			120			125					125			
Val	Gln	Glu	Trp	Val	Asp	Lys	Ile	Arg	Lys	Gln	Val	Ala	Pro	Phe	Leu
	130			135			140					140			
Asp	Phe	Asp	Cys	Gly	Glu	Asn	Ser	Ala	Ile	Ala	Ala	Asn	Asn	Tyr	Asp
145				150			155					160			
Trp	Phe	Gly	Gly	Met	Asn	Val	Leu	Thr	Phe	Leu	Arg	Asp	Ile	Gly	Lys
			165				170					175			
His	Phe	Ser	Val	Asn	Gln	Met	Ile	Asn	Lys	Glu	Ala	Val	Lys	Gln	Arg
			180				185					190			
Leu	Asn	Arg	Asp	Asp	Gln	Gly	Ile	Ser	Phe	Thr	Glu	Phe	Ser	Tyr	Asn
	195			200			205					205			
Leu	Leu	Gln	Gly	Tyr	Asp	Phe	Ala	Cys	Leu	Asn	Lys	Leu	His	Gly	Val
	210			215			220					220			
Ser	Leu	Gln	Ile	Gly	Gly	Ser	Asp	Gln	Trp	Gly	Asn	Ile	Thr	Ser	Gly
225				230			235					240			
Ile	Asp	Leu	Thr	Arg	Arg	Leu	His	Gln	Asn	Gln	Val	Phe	Gly	Leu	Thr
			245				250					255			
Val	Pro	Leu	Ile	Thr	Lys	Ala	Asp	Gly	Thr	Lys	Phe	Gly	Lys	Thr	Glu
			260				265					270			
Gly	Gly	Ala	Val	Trp	Leu	Asp	Pro	Lys	Lys	Thr	Ser	Pro	Tyr	Lys	Phe
	275			280			285					285			
Tyr	Gln	Phe	Trp	Ile	Asn	Thr	Ala	Asp	Ala	Asp	Val	Tyr	Arg	Phe	Leu
	290			295			300					300			
Lys	Phe	Phe	Thr	Phe	Met	Asp	Ile	Glu	Glu	Ile	Asn	Ala	Leu	Glu	Glu
305				310			315					320			
Glu	Asp	Lys	Asn	Ser	Gly	Lys	Ala	Pro	Arg	Ala	Gln	Tyr	Val	Leu	Ala
			325				330					335			

Asp Glu Val Thr Lys Leu Val His Gly Glu Glu Gly Leu Ala Ala Ala
 340 345 350
 Lys Arg Ile Thr Ala Ser Leu Phe Asn Gly Thr Leu Ser Asp Leu Ser
 355 360 365
 Glu Ala Asp Phe Glu Gln Leu Ala Gln Asp Gly Val Pro Met Val Glu
 370 375 380
 Met Glu Lys Gly Ala Asp Leu Met Gln Ala Leu Val Asp Ser Glu Leu
 385 390 395 400
 Gln Pro Ser Arg Gly Gln Ala Arg Lys Thr Ile Ala Ser Asn Ala Ile
 405 410 415
 Thr Ile Asn Gly Glu Lys Gln Ala Asp Pro Glu Tyr Thr Phe Thr Glu
 420 425 430
 Asn Asp Arg Leu Tyr Gly Arg Tyr Thr Leu Leu Arg Arg Gly Lys Lys
 435 440 445
 Asn Tyr Cys Leu Val Cys Trp Lys
 450 455

<210> 6957

<211> 309

<212> PRT

<213> Enterobacter cloacae

<400> 6957

Leu Lys Val Cys Arg Gly Val Gly Asn His Ala Pro Phe Val Leu Thr
 1 5 10 15
 Gly Phe Gly Lys Tyr Asn Met Lys Asn Ile Leu Ala Ile Gln Ser His
 20 25 30
 Val Val Phe Gly His Ala Gly Asn Ser Ala Ala Glu Phe Pro Met Arg
 35 40 45
 Arg Leu Gly Val Asn Val Trp Pro Leu Asn Thr Val Gln Phe Ser Asn
 50 55 60
 His Thr Gln Tyr Gly Lys Trp Thr Gly Cys Val Met Pro Pro Ser His
 65 70 75 80
 Leu Thr Glu Val Val Gln Gly Val Ala Asp Ile Asp Gln Leu Lys Arg
 85 90 95
 Cys Asp Ala Val Leu Ser Gly Tyr Leu Gly Ser Ala Glu Gln Gly Glu
 100 105 110
 His Ile Leu Gly Ile Val Arg Gln Val Lys Ala Ala Asn Pro Ala Ala
 115 120 125
 Lys Tyr Phe Cys Asp Pro Val Met Gly His Pro Glu Lys Gly Cys Ile
 130 135 140
 Val Ala Pro Gly Val Ala Glu Phe His Val Arg His Ala Leu Pro Ala
 145 150 155 160
 Ser Asp Ile Ile Ala Pro Asn Leu Ile Glu Leu Glu Ile Leu Ser Glu
 165 170 175
 His Pro Val Asn Ser Val Glu Glu Ala Val Ser Ala Ser Arg Glu Leu
 180 185 190
 Ile Ala Gln Gly Pro Glu Ile Val Leu Val Lys His Leu Ala Arg Ala
 195 200 205
 Gly Leu Ser Gln Asp Arg Phe Glu Met Leu Leu Val Thr Lys Asp Glu
 210 215 220
 Ala Trp His Ile Ser Arg Pro Leu Val Asp Phe Gly Ala Arg Gln Pro
 225 230 235 240
 Val Gly Val Gly Asp Val Thr Ser Gly Leu Leu Val Lys Leu Leu
 245 250 255
 Gln Gly Ala Ser Leu Arg Asp Ala Leu Glu His Val Thr Ala Ala Val
 260 265 270
 Tyr Glu Ile Met Ile Ala Thr Lys Thr Met Gln Glu Tyr Glu Leu Gln
 275 280 285
 Val Val Ala Ala Gln Asp Arg Ile Ala Lys Pro Glu His Tyr Phe Ser
 290 295 300

Ala Thr Gln Leu
305

<210> 6958

<211> 378

<212> PRT

<213> Enterobacter cloacae

<400> 6958

Gly	Lys	Arg	Met	Lys	Ser	Gly	Arg	Tyr	Ile	Gly	Val	Met	Ser	Gly	Thr
1				5					10					15	
Ser	Leu	Asp	Gly	Val	Asp	Val	Val	Leu	Ala	Ala	Ile	Asp	Glu	Asn	Met
		20						25				30			
Val	Ala	Gln	Gln	Ala	Ser	Leu	Thr	Trp	Pro	Ile	Pro	Val	Ser	Leu	Lys
		35					40					45			
Glu	Glu	Ile	Leu	Asn	Ile	Cys	Gln	Gly	Gln	Gln	Leu	Thr	Leu	Ser	Gln
		50				55					60				
Leu	Gly	Gln	Leu	Asp	Val	Arg	Leu	Gly	Ala	Leu	Phe	Ala	Asp	Ala	Val
65				70					75					80	
Leu	Ala	Leu	Met	Gln	Gln	Glu	Arg	Leu	His	Pro	Gln	Asp	Ile	Val	Ala
			85						90					95	
Ile	Gly	Cys	His	Gly	Gln	Thr	Val	Trp	His	Glu	Pro	Val	Gly	Glu	Ala
			100					105					110		
Pro	His	Thr	Met	Gln	Ile	Gly	Asp	Asn	Asn	Gln	Ile	Val	Ala	Lys	Thr
		115					120					125			
Gly	Val	Thr	Val	Val	Gly	Asp	Phe	Arg	Arg	Arg	Asp	Met	Ala	Leu	Gly
		130				135					140				
Gly	Gln	Gly	Ala	Pro	Leu	Val	Pro	Ala	Phe	His	Gln	Ala	Leu	Leu	Ala
145				150					155					160	
His	Pro	Val	Lys	Arg	Met	Met	Val	Leu	Asn	Ile	Gly	Gly	Asn	Pro	Asn
			165						170				175		
Leu	Ser	Met	Leu	Ile	Pro	Gly	Gln	Pro	Val	Arg	Gly	Tyr	Asp	Thr	Gly
		180					185					190			
Pro	Gly	Asn	Met	Leu	Met	Asp	Ala	Trp	Ile	Trp	Arg	Gln	Ser	Gly	Lys
		195				200						205			
Ala	Tyr	Asp	Lys	Asp	Ala	Gln	Trp	Ala	Ser	Gln	Gly	Lys	Val	Ile	Leu
	210				215						220				
Pro	Leu	Leu	Gln	Thr	Leu	Leu	Ser	Asp	Pro	Phe	Phe	Ala	Leu	Pro	Ala
225				230						235				240	
Pro	Lys	Ser	Thr	Gly	Arg	Glu	Tyr	Phe	Asn	Tyr	Gly	Trp	Leu	Glu	Arg
			245						250				255		
Gln	Leu	Ala	Arg	Phe	Pro	Gly	Leu	Ala	Pro	Gln	Asp	Val	Gln	Ala	Thr
		260					265						270		
Leu	Thr	Glu	Leu	Thr	Ala	Val	Ser	Ile	Ser	Glu	Gln	Val	Leu	Leu	Ser
	275					280						285			
Gly	Gly	Cys	Glu	Arg	Leu	Leu	Val	Cys	Gly	Gly	Gly	Ser	Arg	Asn	Pro
	290				295						300				
Leu	Val	Met	Ala	Arg	Leu	Ala	Ala	Leu	Leu	Pro	Gly	Thr	Glu	Val	Thr
305				310					315					320	
Thr	Thr	Asp	Glu	Ala	Gly	Ile	Ser	Gly	Asp	Asp	Met	Glu	Ala	Leu	Ala
			325						330					335	
Phe	Ala	Trp	Leu	Ala	Trp	Arg	Thr	Val	Ala	Gly	Leu	Pro	Gly	Asn	Leu
		340					345						350		
Pro	Ser	Val	Thr	Gly	Ala	Arg	Glu	Ala	Ser	Val	Leu	Gly	Ala	Ile	Phe
		355				360						365			
Pro	Ala	Asn	Pro	Arg	His	Asn	Gln	Ser							
	370					375									

<210> 6959

<211> 120

<212> PRT

<213> Enterobacter cloacae

<400> 6959

Ala Leu Gln Asp Gln Asp Ser Leu Arg Asn Leu Pro Met Lys Lys Leu
 1 5 10 15
 Leu Leu Ile Ala Val Pro Phe Leu Met Thr Gly Cys Ser Val Tyr Asn
 20 25 30
 Gln Phe Val Glu Arg Met Gln Thr Asp Thr Leu Glu Tyr Arg Cys Asp
 35 40 45
 Glu Lys Pro Leu Thr Val Lys Leu Asn Asn Pro Arg Gln Glu Ala Ser
 50 55 60
 Phe Val Tyr Asp Asn Lys Leu Leu Thr Leu Lys Gln Gly Met Ser Ala
 65 70 75 80
 Ser Gly Ala Arg Tyr Ser Asp Gly Ile Tyr Val Phe Trp Ser Lys Gly
 85 90 95
 Asp Ser Ala Thr Val Tyr Lys Arg Asp Arg Ile Val Leu Asn Asn Cys
 100 105 110
 Gln Leu Gln Asn Pro Lys Arg
 115 120

<210> 6960

<211> 229

<212> PRT

<213> Enterobacter cloacae

<400> 6960

Arg His Pro Ile Ser Leu Ser Ala Asn Ala Met Ser Asp Asn Asp Glu
 1 5 10 15
 Leu Gln Gln Ile Ala His Leu Arg Arg Glu Tyr Thr Lys Gly Gly Leu
 20 25 30
 Arg Arg Gln Asp Leu Pro Ala Glu Pro Leu Val Leu Phe Glu Arg Trp
 35 40 45
 Leu Lys Gln Ala Cys Glu Thr Lys Leu Val Asp Pro Thr Ala Met Val
 50 55 60
 Val Ala Thr Val Asp Glu Asn Gly Gln Pro Tyr Gln Arg Ile Val Leu
 65 70 75 80
 Leu Lys His Tyr Asp Glu Lys Gly Leu Val Phe Tyr Thr Asn Leu Gly
 85 90 95
 Ser Arg Lys Ala His His Leu Glu Asn Asn Pro Arg Ile Ser Leu Leu
 100 105 110
 Phe Pro Trp His Met Leu Glu Arg Gln Val Met Val Thr Gly Lys Ala
 115 120 125
 Glu Arg Leu Ser Thr Leu Glu Val Val Lys Tyr Phe His Ser Arg Pro
 130 135 140
 Arg Asp Ser Gln Ile Gly Ala Trp Val Ser Lys Gln Ser Ser Arg Ile
 145 150 155 160
 Ser Ala Arg Gly Val Leu Glu Ser Lys Phe Leu Glu Leu Lys Gln Lys
 165 170 175
 Phe Gln Gln Gly Glu Val Pro Leu Pro Ser Phe Trp Gly Gly Phe Arg
 180 185 190
 Ile Pro Ile Glu Gln Met Glu Phe Trp Gln Gly Gly Glu His Arg Leu
 195 200 205
 His Asp Arg Phe Leu Tyr Gln Arg Asp Asn Gly Gly Trp Lys Ile Asp
 210 215 220
 Arg Leu Ala Pro
 225

<210> 6961

<211> 386

<212> PRT

<213> Enterobacter cloacae

<400> 6961

Cys Glu Val Thr Lys Asn Ala Val Val Arg Cys Tyr Phe Asn Ser Gln
 1 5 10 15
 Gly Thr Leu Leu Met Cys Ala Leu Ser Thr Arg Pro Val Ile Asn Lys
 20 25 30
 Arg Thr Ala Arg Gly Lys Thr Met Ser Glu Asn Ile Arg Val Gly Leu
 35 40 45
 Ile Gly Tyr Gly Tyr Ala Ser Lys Thr Phe His Ala Pro Leu Val Ala
 50 55 60
 Gly Thr Pro Gly Met Glu Leu Ala Ala Ile Thr Ser Ser Asp Glu Thr
 65 70 75 80
 Lys Val Arg Ala Asp Trp Pro Ala Val Pro Val Val Thr Glu Pro Lys
 85 90 95
 His Leu Phe Asn Asp Pro Asn Ile Asp Leu Ile Val Ile Pro Thr Pro
 100 105 110
 Asn Asp Thr His Phe Pro Leu Ala Lys Ala Ala Leu Asp Ala Ser Lys
 115 120 125
 His Val Val Val Asp Lys Pro Phe Thr Val Thr Leu Ser Gln Ala Arg
 130 135 140
 Glu Leu Asp Ala Leu Ala Arg Ser Leu Gly Arg Leu Leu Ser Val Phe
 145 150 155 160
 His Asn Arg Arg Trp Asp Ser Asp Phe Leu Thr Val Lys Ala Leu Leu
 165 170 175
 Asn Glu Gly Thr Leu Gly Glu Ile Ala Phe Phe Glu Ser His Phe Asp
 180 185 190
 Arg Tyr Arg Pro Gln Val Arg Asp Arg Trp Arg Glu Gln Ala Gly Pro
 195 200 205
 Gly Ser Gly Ile Trp Tyr Asp Leu Ala Pro His Leu Leu Asp Gln Ala
 210 215 220
 Val His Leu Phe Gly Leu Pro Val Ser Met Thr Val Asp Leu Ala Gln
 225 230 235 240
 Leu Arg Pro Gly Ala Gln Thr Thr Asp Tyr Phe His Ala Ile Leu Ser
 245 250 255
 Tyr Pro Gln Arg Arg Ile Val Leu His Gly Thr Met Leu Ala Ala Ala
 260 265 270
 Glu Ser Ala Arg Tyr Ile Ile His Gly Ala Arg Gly Ser Tyr Val Lys
 275 280 285
 Phe Gly Leu Asp Pro Gln Glu Arg Leu Lys Asn Gly Glu Arg Leu
 290 295 300
 Pro Gln Glu Asp Trp Gly Tyr Asp Met Arg Asp Gly Val Val Thr Arg
 305 310 315 320
 Ala Glu Gly Glu Ala Leu Val Glu Glu Thr Val Leu Thr Leu Pro Gly
 325 330 335
 Asn Tyr Pro Ala Tyr Tyr Ala Ala Ile Arg Asp Ala Leu Asn Gly Ser
 340 345 350
 Gly Glu Asn Pro Val Pro Ala Ser Gln Ala Ile Gln Ile Met Glu Leu
 355 360 365
 Ile Glu Leu Gly Ile Glu Ser Ala Lys His Arg Ala Thr Leu Cys Leu
 370 375 380
 Ala
 385

<210> 6962

<211> 258

<212> PRT

<213> *Enterobacter cloacae*

<400> 6962

Phe Lys Arg Ile Ala Val Gly Gln Leu Ala Glu Glu Lys Asp Gly Ile
 1 5 10 15

Met Ile Ser Leu Lys Asn Val Ser Lys Trp Tyr Gly His Phe Gln Val
 20 25 30
 Leu Thr Asp Cys Ser Thr Glu Val Lys Lys Gly Asp Val Val Val
 35 40 45
 Cys Gly Pro Ser Gly Ser Gly Lys Ser Thr Leu Ile Lys Thr Val Asn
 50 55 60
 Gly Leu Glu Pro Val Gln Gln Gly Glu Ile Val Val Asn Gly Thr Lys
 65 70 75 80
 Val Asn Asp Arg Lys Thr Asn Leu Ala Gln Leu Arg Ser His Val Gly
 85 90 95
 Met Val Phe Gln His Phe Glu Leu Phe Pro His Leu Ser Ile Ile Glu
 100 105 110
 Asn Leu Thr Leu Ala Gln Val Lys Val Leu Lys Arg Asp Lys Lys Ala
 115 120 125
 Ala Arg Glu Lys Gly Leu Lys Leu Leu Glu Arg Val Gly Leu Ser Ala
 130 135 140
 His Ala Asp Lys Phe Pro Ala Gln Leu Ser Gly Gly Gln Gln Gln Arg
 145 150 155 160
 Val Ala Ile Ala Arg Ala Leu Cys Met Asp Pro Val Ala Met Leu Phe
 165 170 175
 Asp Glu Pro Thr Ser Ala Leu Asp Pro Glu Met Ile Asn Glu Val Leu
 180 185 190
 Asp Val Met Val Glu Leu Ala His Glu Gly Met Thr Met Met Val Val
 195 200 205
 Thr His Glu Met Gly Phe Ala Arg Lys Val Pro Asn Arg Val Ile Phe
 210 215 220
 Met Asp Glu Gly Lys Ile Val Glu Asp Ser Pro Lys Glu Glu Phe Phe
 225 230 235 240
 Ala Asn Pro Lys Ser Glu Arg Ala Lys Asp Phe Leu Ala Lys Ile Leu
 245 250 255
 His

<210> 6963

<211> 178

<212> PRT

<213> Enterobacter cloacae

<400> 6963

Thr Ala Ile Leu Asn Cys Thr Ala Thr Leu Ala Arg Ile Val Ile Met
 1 5 10 15
 Gly Gly Ala Met Gly Leu Gly Asn Trp Thr Pro Ala Ala Glu Phe Asn
 20 25 30
 Ile Phe Val Asp Pro Glu Ala Ala Glu Ile Val Phe Gln Ser Gly Leu
 35 40 45
 Pro Ile Val Met Ala Gly Leu Asp Val Thr His Arg Ala Gln Ile Met
 50 55 60
 Val Gln Asp Ile Glu Arg Phe Arg Thr Val Gly Asn Pro Val Ala Thr
 65 70 75 80
 Thr Val Ala Glu Leu Leu Asp Phe Phe Met Glu Tyr His Lys Ala Glu
 85 90 95
 Lys Trp Gly Phe His Gly Ala Pro Leu His Asp Pro Cys Thr Ile Ala
 100 105 110
 Trp Leu Leu Lys Pro Glu Met Phe Thr Thr Val Glu Arg Trp Val Gly
 115 120 125
 Val Glu Thr Gln Gly Lys Tyr Thr Gln Gly Met Thr Val Val Asp Tyr
 130 135 140
 Tyr Ser Leu Thr Gly Asn Lys Pro Asn Thr Thr Val Met Val Asp Ile
 145 150 155 160
 Asp Arg Glu Ala Phe Val Asp Leu Leu Ala Glu Arg Leu Ala Tyr Tyr
 165 170 175

Met

<210> 6964

<211> 169

<212> PRT

<213> Enterobacter cloacae

<400> 6964

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Tyr Phe Phe Thr Thr Glu Lys Asn Glu Met Thr Ile Pro Ala His Ile
1      5      10      15
Trp Leu Ile Asp Asp Asn Gly Ser Pro Leu Ile Gly Glu Cys Leu Met
20      25      30
Pro Ser Arg Leu Gly Ser Thr Glu Leu Lys Ser Phe Asp His Ser Val
35      40      45
Trp Ile Pro Thr Asp His Asn Thr Gly Lys Leu Thr Gly Thr Arg Leu
50      55      60
His Val Pro Ile Arg Phe Lys Lys Glu Ile Asp Arg Leu Thr Pro Tyr
65      70      75
Leu Phe Arg Ala Val Cys Glu Gly Arg Ile Leu Lys Glu Ala Leu Ile
85      90      95
Lys Met Tyr Lys Ile Asn Asp Ala Gly Ile Glu Leu Glu Tyr Phe Asn
100     105     110
Ile Lys Leu Glu Asn Val Lys Ile Thr Gln Ile Ser Pro Val Leu Phe
115     120     125
Pro Val Gly Ile Ala Ser Lys His Met Glu Glu Val Glu Ile Arg Tyr
130     135     140
Glu Ser Ile Glu Trp Lys Tyr Thr Glu Gly Asn Ile Met Tyr Lys Asp
145     150     155     160
Ser Trp Asn Glu Arg Val Thr Ala
165

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<210> 6965

<211> 345

<212> PRT

<213> Enterobacter cloacae

<400> 6965

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Leu Met Ile Arg Leu Tyr Pro Glu Gln Leu Arg Ala Gln Leu Asn Glu
1      5      10      15
Gly Leu Arg Ala Ala Tyr Leu Leu Leu Gly Asn Asp Pro Leu Leu Leu
20      25      30
Gln Glu Ser Leu Asp Ala Val Arg His Ala Ala Ala Ala Gln Gly Phe
35      40      45
Asp Glu His His Thr Phe Gln Ile Asp Asn Ser Thr Asp Trp Asn Ala
50      55      60
Ile Phe Ser Leu Cys Gln Ala Met Ser Leu Phe Ala Ser Arg Gln Thr
65      70      75      80
Ile Gln Ile Leu Leu Pro Glu Asn Gly Pro Asn Ala Ala Ile Asn Glu
85      90      95
Gln Leu Ala Met Leu Val Ser Leu Leu His Gly Asp Leu Leu Leu Ile
100     105     110
Val Arg Gly Asn Lys Leu Thr Lys Ala Gln Glu Asn Ala Ala Trp Phe
115     120     125
Thr Arg Leu Thr Pro Ser Ala Val Leu Val Ser Cys Gln Thr Pro Glu
130     135     140
Gln Ala His Leu Pro Lys Trp Val Ala Ala Arg Ala Lys Gln His Asn
145     150     155     160
Leu Gln Leu Asp Glu Ala Ala Ser Gln Leu Leu Cys Tyr Cys Tyr Glu
165     170     175
Gly Asn Leu Leu Ala Leu Ala Gln Ala Leu Asp Arg Leu Ala Leu Leu

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<210> 6966
<211> 638
<212> PRT
<213> Enterobacter cloacae
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Phe 1	Lys	Gln	Arg	Met 5	Lys	Leu	Gln	Asn	Ser 10	Phe	Arg	Asp	Tyr	Thr 15	Ala
Glu	Ser	Ala	Leu	Phe	Val	Arg	Arg	Ala	Leu	Val	Ala	Phe	Thr	Gly	Ile
			20					25					30		
Leu	Leu	Leu	Thr	Gly	Val	Leu	Ile	Ala	Asn	Leu	Tyr	Asn	Leu	Gln	Ile
			35				40					45			
Val	Arg	Tyr	Thr	Asp	Tyr	Gln	Thr	Arg	Ser	Asn	Glu	Asn	Arg	Ile	Lys
		50				55					60				
Leu	Val	Pro	Ile	Ala	Pro	Ser	Arg	Gly	Ile	Ile	Tyr	Asp	Arg	Asn	Gly
65					70					75					80
Thr	Pro	Leu	Ala	Leu	Asn	Arg	Thr	Ile	Tyr	Gln	Ile	Glu	Met	Met	Pro
				85					90					95	
Glu	Lys	Val	Asp	Asn	Val	Gln	Asp	Thr	Leu	Asn	Ala	Leu	Arg	Ser	Val
			100				105					110			
Val	Asp	Leu	Thr	Asp	Asp	Asp	Ile	Ala	Ala	Phe	Lys	Lys	Glu	Arg	Ala
			115				120					125			
Arg	Ser	His	Arg	Phe	Thr	Ser	Ile	Pro	Val	Lys	Thr	Asn	Leu	Thr	Glu
						135					140				
Val	Gln	Val	Ala	Arg	Phe	Ala	Val	Asn	Gln	Tyr	Arg	Phe	Pro	Gly	Val
145					150					155					160
Glu	Val	Lys	Gly	Tyr	Lys	Arg	Arg	Tyr	Tyr	Pro	Tyr	Gly	Ser	Ala	Leu
				165					170				175		
Thr	His	Val	Ile	Gly	Tyr	Val	Ser	Lys	Ile	Asn	Asp	Lys	Asp	Val	Glu
			180					185					190		
Arg	Leu	Asp	Lys	Asp	Gly	Lys	Leu	Ala	Asn	Tyr	Ala	Ala	Thr	His	Asp
		195					200					205			
Ile	Gly	Lys	Leu	Gly	Ile	Glu	Arg	Tyr	Tyr	Glu	Asp	Val	Leu	His	Gly
						215					220				
Gln	Thr	Gly	Tyr	Glu	Glu	Val	Glu	Val	Asn	Asn	Arg	Gly	Arg	Val	Ile
225					230					235					240
Arg	Gln	Leu	Lys	Glu	Val	Pro	Pro	Gln	Ala	Gly	His	Asp	Val	Tyr	Leu
				245					250					255	
Thr	Leu	Asp	Leu	Lys	Leu	Gln	Gln	Tyr	Ile	Glu	Thr	Leu	Leu	Ala	Gly


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<210> 6967
<211> 176
<212> PRT
<213> Enterobacter cloacae
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<400> 6967															
Trp	Pro	Gly	Leu	Val	Ser	Ser	Cys	Arg	Ser	Ile	Pro	Thr	Gly	Lys	Cys
1				5					10					15	
Cys	Pro	Lys	Ala	Tyr	Lys	Asn	Lys	Gly	Ile	Ala	Met	Arg	Lys	Gln	Trp
			20					25					30		
Leu	Gly	Ile	Cys	Ile	Ala	Ala	Ser	Leu	Leu	Ala	Ala	Cys	Thr	Ser	Asp
		35					40					45			
Asp	Gly	Gln	Gln	Gln	Ala	Thr	Val	Ala	Pro	Pro	Gln	Pro	Ala	Val	Cys

50		55		60
Asn Gly Pro Ile Val	Glu Ile Ser Gly Ala Asp	Pro Val Tyr Glu Pro		
65	70	75	80	
Leu Asn Ala Ser Val	Asn Gln Asp Tyr Gln Arg Asp Gly Lys Ser Tyr			
	85	90	95	
Lys Ile Val Gln Asp	Pro Ser Arg Phe Ser Gln Ala Gly Phe Ala Ala			
	100	105	110	
Ile Tyr Asp Ala Glu	Pro Gly Ser Asn Leu Thr Ala Ser Gly Glu Thr			
	115	120	125	
Phe Asp Pro Met Gln	Ile Thr Ala Ala His Pro Thr Leu Pro Val Pro			
	130	135	140	
Ser Tyr Ala Arg Ile	Thr Asn Leu Ala Asn Gly Arg Met Ile Val Val			
	145	150	155	160
Arg Ile Thr Leu His	His Val Ala Arg Ser Leu Arg Pro Ser Asn			
	165	170	175	

<210> 6968

<211> 276

<212> PRT

<213> Enterobacter cloacae

<400> 6968

Val Val Val Pro	His Ser Ala Gln Lys Leu Ser Phe Ser Pro Ile Phe	
1	5	10
Glu Gly Ser Ala	Ala Thr Leu Phe Phe Leu Glu Phe Thr Met Ser Ile	
	20	25
Asp Trp Asn Trp	Gly Ile Phe Leu Gln Gln Ala Pro Phe Gly Asn Thr	
	35	40
Thr Tyr Leu Gly	Trp Leu Trp Ser Gly Phe Gln Val Thr Val Ala Leu	
	50	55
Ser Ile Thr Ala	Trp Ile Ile Ala Phe Leu Val Gly Ser Leu Phe Gly	
	65	70
Ile Leu Arg Thr	Val Pro Asn Arg Phe Leu Ser Ser Ile Gly Thr Leu	
	85	90
Tyr Val Glu Leu	Phe Arg Asn Val Pro Leu Ile Val Gln Phe Phe Thr	
	100	105
Trp Tyr Leu Val	Ile Pro Glu Leu Leu Pro Glu Asp Leu Gly Met Trp	
	115	120
Phe Lys Ala Glu	Leu Asp Pro Asn Val Gln Phe Phe Val Ser Ser Met	
	130	135
Leu Cys Leu Gly	Leu Phe Thr Ala Ala Arg Val Cys Glu Gln Val Arg	
	145	150
Ala Ala Ile Gln	Ser Leu Pro Arg Gly Gln Lys Asn Ala Ala Leu Ala	
	165	170
Met Gly Leu Thr	Leu Pro Gln Ala Tyr Arg Tyr Val Leu Leu Pro Asn	
	180	185
Ala Tyr Arg Val	Ile Val Pro Pro Met Thr Ser Glu Met Met Asn Leu	
	195	200
Val Lys Asn Ser	Ala Ile Ala Ser Thr Ile Gly Leu Val Asp Met Ala	
	210	215
Ala Gln Ala Gly	Lys Leu Leu Asp Tyr Ser Ala His Ala Trp Glu Ser	
	225	230
Phe Thr Ala Ile	Thr Leu Ala Tyr Val Leu Ile Asn Ala Phe Ile Met	
	245	250
Leu Val Met Asn	Leu Val Glu Arg Lys Val Arg Leu Pro Gly Asn Leu	
	260	265
Gly Gly Lys		270
	275	

<210> 6969

<211> 225

<212> PRT

<213> Enterobacter cloacae

<400> 6969

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Met Tyr Asp Phe Asp Trp Ser Ser Ile Val Pro Ser Met Pro Tyr Leu
1          5          10          15
Leu Asp Gly Leu Ala Ile Thr Leu Lys Ile Thr Val Ile Ala Ile Ile
          20          25          30
Val Gly Ile Val Trp Gly Thr Leu Leu Ala Val Met Arg Leu Ser Ser
          35          40          45
Phe Lys Pro Leu Ala Trp Phe Ala Thr Ala Tyr Val Asn Val Phe Arg
          50          55          60
Ser Ile Pro Leu Val Met Val Leu Leu Trp Phe Tyr Leu Ile Val Pro
65          70          75          80
Gly Phe Leu Gln Asn Val Leu Gly Leu Ser Pro Lys Thr Asp Ile Arg
          85          90          95
Leu Ile Ser Ala Met Val Ala Phe Ser Met Phe Glu Ala Ala Tyr Tyr
          100          105          110
Ser Glu Ile Ile Arg Ala Gly Ile Gln Ser Ile Ser Arg Gly Gln Ser
          115          120          125
Ser Ala Ala Leu Ala Leu Gly Met Thr His Trp Gln Ser Met Lys Leu
          130          135          140
Ile Ile Leu Pro Gln Ala Phe Arg Ala Met Val Pro Leu Leu Leu Thr
145          150          155          160
Gln Gly Ile Val Leu Phe Gln Asp Thr Ser Leu Val Tyr Val Leu Ser
          165          170          175
Leu Ala Asp Phe Phe Arg Thr Ala Ser Thr Ile Gly Glu Arg Asp Gly
          180          185          190
Thr Gln Val Glu Met Ile Leu Phe Ala Gly Gly Val Tyr Phe Val Ile
          195          200          205
Ser Leu Ser Ala Ser Leu Leu Val Ser Trp Leu Lys Lys Arg Thr Val
210          215          220

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225

<210> 6970

<211> 203

<212> PRT

<213> Enterobacter cloacae

<400> 6970

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Ile Ala Glu Ser Gly Arg Trp Leu Ser Ala Gly Gly Asn Val Arg Gln
1          5          10          15
Leu Ala Thr Ile Leu Leu Ser Leu Ala Val Leu Val Thr Ala Gly Cys
          20          25          30
Gly Trp His Leu Arg Asn Thr Thr Ala Val Pro Ala Gln Met Lys Thr
          35          40          45
Met Ile Phe Asp Ser Ser Asp Pro Asn Gly Pro Leu Ser Arg Ala Ile
          50          55          60
Arg Asn Gln Leu Arg Leu Asn Asp Val Glu Leu Ile Glu Lys Gly Thr
65          70          75          80
Leu Arg Gln Asp Val Pro Ser Leu Arg Val Leu Lys Ser Thr Leu Ala
          85          90          95
Lys Asp Thr Ala Ser Ile Phe Gln Asp Gly Arg Thr Ala Glu Tyr Gln
          100          105          110
Met Val Leu Thr Val Ser Ala Ala Val Leu Met Pro Gly Lys Asp Ile
          115          120          125
Tyr Pro Ile Ser Thr Lys Val Tyr Arg Ser Phe Phe Asp Asn Pro Gln
130          135          140
Thr Ala Leu Ala Lys Asp Ala Glu Glu Gln Ile Ile Ile Lys Glu Met
145          150          155          160

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Tyr Asp Lys Ala Ala Glu Gln Leu Ile Arg Lys Leu Pro Thr Ile Ala
 165 170 175
 Ala Ser Thr Lys Lys Gly Ala Asp Val Ile Glu Thr Pro Asp Ala Arg
 180 185 190
 Thr Pro Asp Met Pro Thr Ser Leu Gly Asn
 195 200

<210> 6971

<211> 251

<212> PRT

<213> Enterobacter cloacae

<400> 6971

Asn Arg Ile Thr Val Ser Leu Ser Gly Arg Ser Trp Arg Val Ser Leu
 1 5 10 15
 Cys Cys Ser Ala Ile Arg Leu Trp Gln Thr Tyr Leu Ser Met Gly Asp
 20 25 30
 Met His Ser Leu Gln Ala Met Tyr Gly Gly Thr Phe Asp Pro Val His
 35 40 45
 Tyr Gly His Leu Lys Pro Val Glu Ile Leu Ala Asn Leu Ile Gly Leu
 50 55 60
 Gln Arg Val Ile Ile Met Pro Asn Asn Val Pro Pro His Arg Pro Gln
 65 70 75 80
 Pro Glu Ala Thr Ser Glu Gln Arg Lys Ala Met Leu Ala Leu Ala Ile
 85 90 95
 Ala Asp Lys Pro Leu Phe Thr Leu Asp Glu Arg Glu Leu Arg Arg Asp
 100 105 110
 Thr Pro Ser Trp Thr Ser Gln Thr Leu Arg Glu Trp Arg Ala Glu Gln
 115 120 125
 Gly Pro Met Lys Pro Leu Ala Phe Ile Ile Gly Gln Asp Ser Leu Leu
 130 135 140
 Asn Phe Pro Ser Trp Tyr Gln Tyr Glu Thr Ile Leu Glu Asn Ser His
 145 150 155 160
 Leu Leu Val Cys Arg Arg Pro Gly Tyr Pro Leu Thr Met Arg Asp Ala
 165 170 175
 Gln His Gln Gln Trp Leu Asp Ala His Leu Thr Asp Asn Ile Glu Asp
 180 185 190
 Leu His Ser Leu Pro Ala Gly Lys Ile Tyr Leu Ala Glu Thr Pro Trp
 195 200 205
 Phe Asp Ile Ser Ala Thr Leu Ile Arg Glu Arg Leu Gln Gln Gly Leu
 210 215 220
 Asp Cys Asp Asp Leu Leu Pro Ser Pro Val Leu Ala Tyr Ile Leu Ala
 225 230 235 240
 His Gly Leu Tyr Gln Lys Ser Thr Asp Val
 245 250

<210> 6972

<211> 84

<212> PRT

<213> Enterobacter cloacae

<400> 6972

Asp Asn Trp Glu Ile Val Gly Thr Ala Gln Ser Lys Glu Ala Tyr Gly
 1 5 10 15
 Cys Met Leu Arg Lys Gly Asp Glu Asp Phe Lys Lys Leu Ile Asp Asp
 20 25 30
 Thr Ile Ala Gln Ala Gln Thr Ser Gly Glu Ala Ala Lys Trp Phe Asp
 35 40 45
 Lys Trp Phe Lys Asn Pro Ile Pro Pro Lys Asn Leu Asn Met Asn Phe
 50 55 60
 Glu Leu Ser Asp Asp Met Lys Ala Leu Phe Lys Ser Pro Asn Asp Lys

80

<400> 6973

<210> 6974

<211> 904

<212> PRT

<213> Enterobacter cloacae

<400> 6974

Ile	Pro	Ala	Lys	Cys	Ile	Cys	Val	Lys	Gly	Cys	Phe	Asp	Ala	Gly	Val
1				5					10					15	
Trp	Ala	Met	Leu	Cys	Gly	Ser	Glu	Leu	Pro	His	Pro	Leu	Ala	Thr	Phe
			20					25					30		
Val	Ala	Val	Leu	Asn	Thr	Gly	Pro	Leu	Ala	Ala	Met	Gln	Glu	Gln	Tyr
		35					40					45			
Arg	Pro	Glu	Glu	Ile	Glu	Ser	Lys	Val	Gln	Gln	His	Trp	Asp	Glu	Lys
	50					55					60				
Arg	Thr	Phe	Glu	Val	Thr	Glu	Asp	Glu	Ser	Lys	Glu	Lys	Tyr	Tyr	Cys
65					70					75					80
Leu	Ser	Met	Leu	Pro	Tyr	Pro	Ser	Gly	Arg	Leu	His	Met	Gly	His	Val
				85					90					95	
Arg	Asn	Tyr	Thr	Ile	Gly	Asp	Val	Ile	Ala	Arg	Tyr	Gln	Arg	Met	Leu
			100					105					110		
Gly	Lys	Asn	Val	Leu	Gln	Pro	Ile	Gly	Trp	Asp	Ala	Phe	Gly	Leu	Pro
		115					120					125			
Ala	Glu	Gly	Ala	Ala	Val	Lys	Asn	Asn	Thr	Ala	Pro	Ala	Pro	Trp	Thr
	130					135					140				

Tyr	Asp	Asn	Ile	Ala	Tyr	Met	Lys	Asn	Gln	Leu	Lys	Met	Leu	Gly	Phe
145						150				155					160
Gly	Tyr	Asp	Trp	Ser	Arg	Glu	Leu	Ala	Thr	Cys	Thr	Pro	Glu	Tyr	Tyr
				165					170					175	
Arg	Trp	Glu	Gln	Lys	Phe	Phe	Thr	Glu	Leu	Tyr	Lys	Lys	Gly	Leu	Val
			180					185					190		
Tyr	Lys	Lys	Thr	Ser	Ala	Val	Asn	Trp	Cys	Pro	Asn	Asp	Gln	Thr	Val
	195						200				205				
Leu	Ala	Asn	Glu	Gln	Val	Ile	Asp	Gly	Cys	Cys	Trp	Arg	Cys	Asp	Thr
	210					215					220				
Lys	Val	Glu	Arg	Lys	Glu	Ile	Pro	Gln	Trp	Phe	Ile	Lys	Ile	Thr	Ala
225					230					235					240
Tyr	Ala	Asp	Glu	Leu	Leu	Asn	Asp	Leu	Asp	Asn	Leu	Asp	His	Trp	Pro
			245					250						255	
Asp	Thr	Val	Lys	Thr	Met	Gln	Arg	Asn	Trp	Ile	Gly	Arg	Ser	Glu	Gly
		260						265					270		
Val	Glu	Ile	Thr	Phe	Asn	Val	Glu	Asn	Tyr	Asp	Gln	Thr	Leu	Thr	Val
	275						280					285			
Tyr	Thr	Thr	Arg	Pro	Asp	Thr	Phe	Met	Gly	Ala	Thr	Tyr	Leu	Ala	Val
	290					295					300				
Ala	Ala	Gly	His	Pro	Leu	Ala	Gln	Asn	Ala	Ala	Glu	Asn	Asn	Pro	Glu
305					310					315					320
Leu	Ala	Thr	Phe	Ile	Asp	Glu	Cys	Arg	Asn	Thr	Lys	Val	Ala	Glu	Ala
			325					330						335	
Asp	Met	Ala	Thr	Met	Glu	Lys	Lys	Gly	Val	Asp	Thr	Gly	Phe	Lys	Ala
		340						345					350		
Ile	His	Pro	Leu	Thr	Gly	Glu	Ala	Ile	Pro	Val	Trp	Ala	Ala	Asn	Phe
	355					360						365			
Val	Leu	Met	Glu	Tyr	Gly	Thr	Gly	Ala	Val	Met	Ala	Val	Pro	Gly	His
	370					375					380				
Asp	Gln	Arg	Asp	Tyr	Glu	Phe	Ala	Thr	Lys	Tyr	Gly	Leu	Thr	Ile	Lys
385					390					395					400
Pro	Val	Ile	Leu	Ala	Ala	Asp	Gly	Ser	Glu	Pro	Asp	Leu	Ser	Glu	Gln
			405					410						415	
Ala	Leu	Thr	Glu	Lys	Gly	Thr	Leu	Phe	Asn	Ser	Gly	Glu	Phe	Ser	Gly
		420					425						430		
Leu	Ser	Phe	Glu	Glu	Gly	Phe	Asn	Ala	Ile	Ala	Asp	Lys	Leu	Ala	Ser
	435					440					445				
Leu	Gly	Val	Gly	Glu	Arg	Lys	Val	Asn	Tyr	Arg	Leu	Arg	Asp	Trp	Gly
	450					455					460				
Val	Ser	Arg	Gln	Arg	Tyr	Trp	Gly	Ala	Pro	Ile	Pro	Met	Val	Thr	Leu
465					470					475					480
Glu	Asp	Gly	Thr	Val	Met	Pro	Thr	Pro	Glu	Asp	Gln	Leu	Pro	Val	Ile
			485					490						495	
Leu	Pro	Glu	Asp	Val	Val	Met	Asp	Gly	Ile	Thr	Ser	Pro	Ile	Lys	Ala
		500					505						510		
Asp	Pro	Glu	Trp	Ala	Lys	Thr	Thr	Val	Asn	Gly	Gln	Pro	Ala	Leu	Arg
	515						520					525			
Glu	Thr	Asp	Thr	Phe	Asp	Thr	Phe	Met	Glu	Ser	Ser	Trp	Tyr	Tyr	Ala
	530					535					540				
Arg	Tyr	Thr	Cys	Pro	Gln	Tyr	Lys	Glu	Gly	Met	Leu	Asp	Ser	Asp	Ala
545					550					555					560
Ala	Asn	Tyr	Trp	Leu	Pro	Val	Asp	Ile	Tyr	Ile	Gly	Gly	Ile	Glu	His
			565					570						575	
Ala	Ile	Met	His	Leu	Leu	Tyr	Phe	Arg	Phe	Phe	His	Lys	Leu	Met	Arg
		580					585					590			
Asp	Ala	Gly	Leu	Val	Asn	Ser	Asp	Glu	Pro	Ala	Lys	Gln	Leu	Leu	Cys
	595					600						605			
Gln	Gly	Met	Val	Leu	Ala	Asp	Ala	Phe	Tyr	Tyr	Val	Gly	Ala	Asn	Gly
	610					615					620				
Glu	Arg	Asn	Trp	Val	Ser	Pro	Val	Asp	Ala	Ile	Val	Glu	Arg	Asp	Glu

```

625          630          635          640
Lys Gly Arg Ile Val Lys Ala Lys Asp Ala Glu Gly His Glu Leu Val
          645          650          655
Tyr Thr Gly Met Ser Lys Met Ser Lys Ser Lys Asn Asn Gly Ile Asp
          660          665          670
Pro Gln Val Met Val Glu Arg Tyr Gly Ala Asp Thr Val Arg Leu Phe
          675          680          685
Met Met Phe Ala Ser Pro Ala Asp Met Thr Leu Glu Trp Gln Glu Ser
          690          695          700
Gly Val Glu Gly Ala Asn Arg Phe Leu Lys Arg Val Trp Lys Leu Val
705          710          715          720
Tyr Glu His Thr Ser Gln Gly Asp Ala Pro Ala Leu Asn Val Ala Ala
          725          730          735
Leu Thr Glu Asp Gln Gln Ala Leu Arg Arg Asp Val His Lys Thr Ile
          740          745          750
Ala Lys Val Thr Asp Asp Ile Gly Arg Arg Gln Thr Phe Asn Thr Ala
          755          760          765
Ile Ala Ala Ile Met Glu Leu Met Asn Lys Leu Ala Lys Ala Pro Gln
          770          775          780
Asp Gly Glu Gln Asp Arg Ala Leu Met Arg Glu Ala Leu Leu Ala Val
785          790          795          800
Val Arg Met Leu Asn Pro Phe Thr Pro His Val Ser Phe Thr Leu Trp
          805          810          815
Gln Glu Leu Lys Gly Glu Gly Asp Ile Asp Asn Ala Pro Trp Pro Val
          820          825          830
Ala Asp Glu Ser Ala Met Val Glu Asn Thr Thr Leu Val Val Val Gln
          835          840          845
Val Asn Gly Lys Val Arg Gly Lys Ile Thr Val Ala Val Asp Ala Thr
          850          855          860
Glu Glu Gln Val Arg Glu Arg Ala Gly Gln Glu His Leu Val Ala Lys
865          870          875          880
Tyr Leu Glu Gly Val Thr Val Arg Lys Val Ile Tyr Val Pro Gly Lys
          885          890          895
Leu Leu Asn Leu Val Val Gly
          900

```

<210> 6975

<211> 135

<212> PRT

<213> Enterobacter cloacae

<400> 6975

```

His Leu Ser Arg Asp Trp Arg Gln Phe Arg Tyr Thr Asp Trp Pro Arg
1          5          10          15
Ile His Ser Cys Thr Ile Ser Phe Thr Gln Gly Glu Asn Leu Gln Gly
          20          25          30
Lys Ala Leu Gln Asp Phe Val Ile Asp Lys Ile Asp Asp Leu Lys Gly
          35          40          45
Gln Asp Ile Ile Ala Ile Asp Val Lys Gly Lys Ser Ser Ile Thr Asp
          50          55          60
Cys Met Ile Ile Cys Thr Gly Thr Ser Thr Arg His Val Val Ser Ile
65          70          75          80
Ala Asp His Val Val Gln Glu Ser Arg Ala Ala Gly Leu Leu Pro Leu
          85          90          95
Gly Val Glu Gly Glu Ala Thr Ala Asp Trp Val Val Val Asp Leu Gly
          100          105          110
Asp Val Ile Val His Val Met Gln Glu Glu Ser Arg Arg Leu Tyr Glu
          115          120          125
Leu Glu Lys Leu Trp Gly
          130          135

```

<210> 6976
 <211> 157
 <212> PRT
 <213> Enterobacter cloacae

<400> 6976

```

Cys Val Lys Leu Gln Leu Val Ala Val Gly Thr Lys Met Pro Asp Trp
1          5          10          15
Val Gln Thr Gly Phe Thr Glu Tyr Leu Arg Arg Phe Pro Lys Asp Met
          20          25          30
Pro Phe Glu Leu Val Glu Ile Pro Ala Gly Lys Arg Gly Lys Asn Ala
          35          40          45
Asp Ile Lys Arg Ile Leu Asp Lys Glu Gly Glu Leu Met Leu Ala Ala
          50          55          60
Ala Gly Lys Asn Arg Ile Val Thr Leu Asp Ile Pro Gly Lys Pro Trp
          65          70          75          80
Asp Thr Pro Gln Leu Ala His Glu Leu Glu Arg Trp Lys Gln Asp Gly
          85          90          95
Arg Asp Val Ser Leu Leu Ile Gly Gly Pro Glu Gly Leu Ser Pro Ala
          100          105          110
Cys Lys Ala Ala Ala Glu Gln Ser Trp Ser Leu Ser Ala Leu Thr Leu
          115          120          125
Pro His Pro Leu Val Arg Val Leu Val Ala Glu Ser Leu Tyr Arg Ala
          130          135          140
Trp Ser Ile Thr Thr Asn His Pro Tyr His Arg Glu
          145          150          155

```

<210> 6977
 <211> 383
 <212> PRT
 <213> Enterobacter cloacae

<400> 6977

```

Lys Pro Gly Ser Arg Cys Gly Gly Gly Pro Ile Ile Met Thr Asp Asn
1          5          10          15
Pro Asn Lys Lys Ser Leu Trp Asp Lys Ile His Ile Asp Pro Ala Met
          20          25          30
Leu Leu Ile Leu Leu Ala Leu Leu Val Tyr Ser Ala Leu Val Ile Trp
          35          40          45
Ser Ala Ser Gly Gln Asp Ile Gly Met Met Glu Arg Lys Ile Gly Gln
          50          55          60
Ile Ala Met Gly Leu Val Ile Met Val Val Met Ala Gln Ile Pro Pro
          65          70          75          80
Arg Val Tyr Glu Gly Trp Ala Pro Tyr Leu Tyr Ile Phe Cys Ile Ile
          85          90          95
Leu Leu Val Ala Val Asp Ala Phe Gly Ala Ile Ser Lys Gly Ala Gln
          100          105          110
Arg Trp Leu Asp Leu Gly Ile Val Arg Phe Gln Pro Ser Glu Ile Ala
          115          120          125
Lys Ile Ala Val Pro Leu Met Val Ala Arg Phe Ile Asn Arg Asp Val
          130          135          140
Cys Pro Pro Ser Leu Lys Asn Thr Ala Ile Ala Leu Val Leu Ile Phe
          145          150          155          160
Leu Pro Thr Leu Leu Val Ala Ala Gln Pro Asp Leu Gly Thr Ser Ile
          165          170          175
Leu Ile Ala Leu Ser Gly Leu Phe Val Leu Phe Leu Ser Gly Leu Ser
          180          185          190
Trp Arg Leu Ile Gly Ile Ala Val Val Leu Val Ala Ala Phe Ile Pro
          195          200          205
Ile Leu Trp Phe Phe Leu Met His Asp Tyr Gln Arg Gln Arg Val Met
          210          215          220

```


Met Leu Leu Asp Pro Glu Thr Asp Pro Leu Gly Ala Gly Tyr His Ile
 225 230 235 240
 Ile Gln Ser Lys Ile Ala Ile Gly Ser Gly Gly Leu Arg Gly Lys Gly
 245 250 255
 Trp Leu His Gly Thr Gln Ser Gln Leu Glu Phe Leu Pro Glu Arg His
 260 265 270
 Thr Asp Phe Ile Phe Ala Val Leu Ala Glu Glu Leu Gly Leu Val Gly
 275 280 285
 Ile Leu Val Leu Leu Ala Leu Tyr Val Leu Leu Ile Met Arg Gly Leu
 290 295 300
 Trp Ile Ala Ala Arg Ala Gln Thr Thr Phe Gly Arg Val Met Ala Gly
 305 310 315 320
 Gly Leu Met Leu Ile Leu Phe Val Tyr Val Phe Val Asn Ile Gly Met
 325 330 335
 Val Ser Gly Ile Leu Pro Val Val Gly Val Pro Leu Pro Leu Val Ser
 340 345 350
 Tyr Gly Gly Ser Ala Leu Ile Val Leu Met Ala Gly Phe Gly Ile Val
 355 360 365
 Met Ser Ile His Thr His Arg Lys Met Leu Ser Lys Ser Val
 370 375 380

<210> 6978

<211> 175

<212> PRT

<213> Enterobacter cloacae

<400> 6978

Gly Leu Leu Leu Glu Thr Val Thr Tyr Pro Gly Gly Lys Met Met Asn
 1 5 10 15
 Lys Val Ala Gln Phe Tyr Arg Glu Leu Val Ala Thr Leu Thr Glu Arg
 20 25 30
 Leu Arg Asn Gly Glu Arg Asp Ile Asp Ala Leu Val Glu Gln Ala Arg
 35 40 45
 Ala Arg Val Thr Gln Thr Gly Glu Leu Thr Arg Thr Glu Val Glu Glu
 50 55 60
 Val Thr Arg Ala Val Arg Arg Asp Leu Glu Glu Phe Ala Arg Ser Tyr
 65 70 75 80
 Glu Glu Ser Gln Asp Glu Ile Ala Asp Ser Val Phe Met Arg Val Ile
 85 90 95
 Lys Glu Ser Leu Trp Gln Glu Leu Ala Asp Ile Thr Asp Lys Thr Gln
 100 105 110
 Leu Glu Trp Arg Glu Val Phe Gln Asp Leu Asn His His Gly Val Tyr
 115 120 125
 His Ser Gly Glu Val Val Gly Leu Gly Asn Leu Val Cys Glu Lys Cys
 130 135 140
 His His His Ile Ala Val Tyr Thr Pro Glu Val Leu Ser Leu Cys Pro
 145 150 155 160
 Lys Cys Gly His Asp Gln Phe Gln Arg Arg Pro Phe Glu Pro
 165 170 175

<210> 6979

<211> 148

<212> PRT

<213> Enterobacter cloacae

<400> 6979

Leu Tyr Ala Gln Asn Thr Cys Cys Ser Glu Thr Glu Ala Glu Pro Gly
 1 5 10 15
 Met Asn Thr Phe Phe Lys Leu Thr Ala Leu Ala Gly Leu Phe Ala Ile
 20 25 30
 Thr Gly His Ala Phe Ala Val Asp Asp Ile Thr Arg Val Asp Gln Ile

```

      35              40              45
Pro Val Leu Lys Glu Glu Thr Gln His Ala Thr Val Ser Glu Arg Val
  50              55              60
Thr Ser Arg Phe Thr Arg Ser His Tyr Arg Gln Phe Asp Leu Asp Gln
65              70              75              80
Ala Phe Ser Ala Lys Ile Phe Asp Arg Tyr Leu Asn Leu Leu Asp Tyr
      85              90              95
Ser His Asn Val Leu Leu Ala Ser Asp Val Glu Gln Phe Ala Lys Arg
      100              105              110
Lys Ser Glu Val Gly Asp Glu Leu Arg Ser Gly Lys Leu Asp Leu Phe
      115              120              125
Tyr Asp Leu Tyr Asn Leu Ser Gln Asn Arg Arg Phe Asp Arg Leu Phe
      130              135              140
Thr Ser Glu
145

```

<210> 6980

<211> 118

<212> PRT

<213> Enterobacter cloacae

<400> 6980

```

Lys Phe Gly Arg Lys Pro Pro Asp Val Thr Gly Gln Asn Gly Pro Ala
1      5      10      15
Val Val Cys Ile His Arg Val Thr Gln Leu Leu Arg Gln Pro Val Pro
      20      25      30
Gly Gly Glu Ile Pro Glu Gln Gln Leu His Gln Gln Arg Arg Ile Ala
      35      40      45
Lys Gln Arg Tyr Pro Ala Ala Asp Glu Arg Arg Pro Glu Thr Ser Pro
      50      55      60
Gly Lys Pro Gln Lys His Lys Glu Gln Gly Glu Gln Ala Cys Gln His
65      70      75      80
Asn Pro Arg Gln Arg His Pro Gln Ser Gly Glu Lys Ser Gly Glu Asp
      85      90      95
Pro Val Gln Gly Leu Ser Gly Gln His Pro Leu Pro Val Gln Ser Gly
      100      105      110
His Tyr Ser Cys Ser
      115

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<210> 6981

<211> 281

<212> PRT

<213> Enterobacter cloacae

<400> 6981

```

Thr Leu Ile Asn Thr His Arg Asn His Ile Met Lys Lys Thr Leu Thr
1      5      10      15
Leu Ile Ala Ala Ala Thr Leu Ser Ala Leu Ser Phe Ala Ser Trp Ala
      20      25      30
Asp Thr Leu Thr Val Gly Ala Ser Asn Thr Pro His Ala Glu Ile Leu
      35      40      45
Glu Gln Ala Lys Pro Ile Leu Ala Lys Gln Gly Ile Asp Leu Glu Ile
      50      55      60
Lys Pro Phe Gln Asp Tyr Ile Leu Pro Asn Thr Ala Leu Ala Gly His
65      70      75      80
Asp Ile Asp Ala Asn Tyr Phe Gln His Ile Pro Tyr Leu Asn Ser Val
      85      90      95
Leu Lys Asp His Ala Gly Asp Lys Asp Tyr Asp Phe Val Ser Ala Gly
      100      105      110
Ala Ile His Ile Glu Pro Ile Gly Ile Tyr Ser Lys Lys Tyr Lys Ser
      115      120      125

```

Leu Lys Asp Leu Pro Glu Gly Gly Lys Ile Ile Met Arg Asp Ala Val
 130 135 140
 Ser Glu Glu Gly Arg Ile Leu Ser Ile Phe Glu Lys Glu Gly Val Ile
 145 150 155 160
 Lys Leu Lys Pro Gly Ile Asp Lys Val Thr Ala Arg Ile Ser Asp Ile
 165 170 175
 Val Glu Asn Pro Lys Lys Leu Gln Phe Thr Pro Asn Val Glu Ala Ser
 180 185 190
 Leu Leu Pro Gln Met Tyr Asn Asn Asp Glu Gly Ala Ala Val Val Ile
 195 200 205
 Asn Ala Asn Tyr Ala Ile Asp Ala Gly Leu Asp Pro Val His Asp Pro
 210 215 220
 Ile Ala Val Glu Ser Gly Glu Asn Asn Pro Tyr Ala Asn Ile Ile Thr
 225 230 235 240
 Val His Arg Gly Asp Glu Lys Lys Lys Asp Ile Val Ala Leu Val Asn
 245 250 255
 Val Leu His Ser Lys Glu Ile Gln Asp Trp Ile Arg Thr Lys Tyr Lys
 260 265 270
 Gly Ala Val Ile Pro Val Asn Asn
 275 280

<210> 6982

<211> 76

<212> PRT

<213> Enterobacter cloacae

<400> 6982

Gly Asn Gly Val Met Ala Met Gly Asn Val Thr Lys Asp Glu Ala Leu
 1 5 10 15
 Tyr Gln Glu Met Cys Arg Val Val Gly Lys Val Val Leu Glu Met Arg
 20 25 30
 Asp Leu Gly Gln Glu Pro Lys His Ile Val Ile Ala Gly Val Leu Arg
 35 40 45
 Thr Ala Leu Ala Asn Gln Arg Val Lys Arg Ser Glu Leu Thr Thr Lys
 50 55 60
 Ala Met Glu Thr Val Val Lys Ala Leu Ala Gly
 65 70 75

<210> 6983

<211> 344

<212> PRT

<213> Enterobacter cloacae

<400> 6983

Arg Ile Arg Met Ile Val Leu Ser Asn Ile Ser Lys Val Phe Asp Asn
 1 5 10 15
 Gly Lys Leu Ala Leu Thr Ala Val Asp Asn Val Asn Leu Thr Ile Glu
 20 25 30
 Gln Gly Gln Ile Tyr Gly Ile Ile Gly Tyr Ser Gly Ala Gly Lys Ser
 35 40 45
 Thr Leu Ile Arg Leu Leu Asn Gly Leu Glu Lys Pro Ser Ala Gly Ser
 50 55 60
 Val Thr Ile Asn Gly Gln Asp Ile Ser Ala Ala Lys Gly Glu Ala Leu
 65 70 75 80
 Arg Gln Ala Arg Leu Lys Ile Ser Met Val Phe Gln His Phe Asn Leu
 85 90 95
 Leu Trp Ser Arg Thr Val Lys Glu Asn Ile Ala Phe Ser Met Gln Ile
 100 105 110
 Ala Gly Val Pro Lys Ala Gln Ile Gln Ala Arg Val Ala Glu Leu Val
 115 120 125
 Glu Leu Val Gly Leu Lys Gly Arg Glu Asn Ala Tyr Pro Ser Gln Leu

130 135 140
 Ser Gly Gly Gln Lys Gln Arg Val Gly Ile Ala Arg Ala Leu Ala Asn
 145 150 155 160
 His Pro Asp Val Leu Leu Cys Asp Glu Ala Thr Ser Ala Leu Asp Pro
 165 170 175
 Gln Thr Thr Asp Gln Ile Leu Asp Leu Leu Leu Asp Ile Asn Arg Arg
 180 185 190
 Phe Asn Leu Thr Ile Val Leu Ile Thr His Glu Met His Val Val Arg
 195 200 205
 Lys Ile Cys Asp Arg Val Ala Val Met Glu Asn Gly Lys Val Val Glu
 210 215 220
 Glu Gly Asp Val Leu Ser Val Phe Thr His Pro Gln Gln Pro Ile Thr
 225 230 235 240
 Arg Gln Phe Val Arg Gln Val Ser Gln Tyr Ala Glu Glu Glu Thr Phe
 245 250 255
 Asn Thr Glu Leu Ala Asn Asp Leu Glu Gly Thr Val Ile Arg Leu Thr
 260 265 270
 Phe Thr Gly His Ser Thr His Arg Pro Ile Val Gly Glu Leu Thr Leu
 275 280 285
 Arg Tyr Gly Leu Pro Phe Asn Ile Leu His Gly Lys Met Thr Gln Thr
 290 295 300
 Ala His Gly Val Phe Gly Gln Leu Trp Val His Val Val Ala Ser Asp
 305 310 315 320
 Glu Gln Leu Asn Asn Ile Leu Ala Asp Leu Lys Gln Ser Asp Ile Glu
 325 330 335
 Gly Glu Val Ile Lys His Gly
 340

<210> 6984

<211> 221

<212> PRT

<213> Enterobacter cloacae

<400> 6984

Arg Thr Leu Ser Ala Pro Glu Val Gly Ser Ala Leu Gly Cys Asn Pro
 1 5 10 15
 Gly Asp Ala Leu His Asp Cys Ala Phe Pro Ala Trp Arg Arg Leu Phe
 20 25 30
 Leu Gly Ile Ala Leu Gly Leu Ala Leu Phe Leu Thr Ala Arg Gly Gly
 35 40 45
 Leu Phe His Asn Arg Thr Val Tyr Ser Val Met Ser Ile Val Val Asn
 50 55 60
 Val Phe Arg Ser Ile Pro Phe Ile Ile Leu Ile Val Leu Leu Ile Pro
 65 70 75 80
 Phe Thr Lys Thr Val Val Gly Thr Ile Leu Gly Ala Asn Ala Ala Leu
 85 90 95
 Pro Ala Leu Ile Val Gly Ala Ala Pro Phe Tyr Ala Arg Leu Val Glu
 100 105 110
 Ile Ala Leu Arg Glu Val Asp Lys Gly Val Ile Glu Ala Thr Arg Ser
 115 120 125
 Met Gly Ala Arg Leu Ser Thr Leu Val Phe Arg Val Leu Leu Pro Glu
 130 135 140
 Ser Ser Pro Ala Leu Val Ser Gly Met Thr Val Thr Leu Ile Ala Leu
 145 150 155 160
 Val Ser Tyr Ser Ala Met Ala Gly Val Ile Gly Ala Gly Gly Leu Gly
 165 170 175
 Asn Leu Ala Tyr Leu Glu Gly Phe Gln Arg Asn His Gly Asp Val Thr
 180 185 190
 Leu Val Ala Thr Val Thr Ile Leu Ile Ile Val Phe Ile Ile Gln Phe
 195 200 205
 Cys Gly Asp Ala Ile Thr Ser Leu Leu Asp Lys Arg

210

215

220

<210> 6985

<211> 288

<212> PRT

<213> Enterobacter cloacae

<400> 6985

Arg	Gly	Lys	Thr	Lys	Thr	Thr	Gly	Trp	Arg	Met	Thr	Met	Ala	Ala	Lys
1				5					10					15	
Met	Lys	Gly	Phe	Lys	Lys	Arg	Ala	Gln	Val	Leu	Gly	Leu	Val	Ala	Trp
			20					25					30		
Gly	Leu	Val	Ser	Ala	Gln	Ala	Gln	Ala	Asp	Arg	Leu	Ala	Asp	Ile	Lys
		35					40					45			
Ala	Ala	Gly	Val	Val	Lys	Val	Ala	Thr	Phe	Asp	Ala	Asn	Pro	Pro	Phe
		50				55					60				
Gly	Ser	Ile	Asp	Ala	Lys	Thr	His	Glu	Ile	Val	Gly	Tyr	Asp	Val	Asp
65					70				75					80	
Phe	Ala	Lys	Ala	Leu	Ala	Lys	Ser	Leu	Gly	Val	Lys	Leu	Glu	Leu	Val
				85					90					95	
Ala	Thr	Asn	Pro	Ala	Asn	Arg	Ile	Pro	Leu	Leu	Gln	Ser	Gly	Lys	Ala
			100					105					110		
Asp	Leu	Ile	Val	Ala	Asp	Ile	Thr	Ile	Thr	Pro	Glu	Arg	Ala	Gln	Val
		115					120					125			
Ile	Asp	Phe	Ser	Thr	Pro	Tyr	Phe	Val	Thr	Gly	Gln	Gln	Phe	Leu	Val
	130					135					140				
Pro	Ala	Lys	Ser	Pro	Asp	Lys	Leu	Asp	Asp	Tyr	Ser	Arg	Ala	Arg	Ile
145					150					155					160
Gly	Ala	Val	Lys	Gly	Thr	Thr	Gly	Glu	Gln	Ala	Leu	His	Gln	Arg	Phe
				165					170					175	
Pro	Gln	Ser	Arg	Val	Leu	Ser	Tyr	Asp	Asp	Ile	Pro	Leu	Ala	Leu	Thr
			180					185					190		
Ala	Leu	Arg	Asn	Gly	Asn	Val	Gln	Ala	Ile	Thr	Gln	Asp	Ser	Thr	Ile
		195					200					205			
Leu	Ala	Gly	Leu	Leu	Ala	Gln	Ala	Pro	Asp	Lys	Ala	Asp	Phe	Lys	Ile
	210					215				220					
Leu	Pro	Asp	Leu	Leu	Ser	Lys	Glu	Glu	Ile	Gly	Val	Gly	Val	Lys	Lys
225					230					235					240
Gly	Glu	Thr	Ala	Leu	Leu	Lys	Ala	Val	Asn	Asp	Glu	Leu	Val	Asn	Leu
				245					250					255	
Glu	Lys	Asn	Gly	Gln	Ala	Ala	Lys	Ile	Tyr	Asp	Val	Trp	Phe	Gly	Pro
			260				265					270			
Gly	Ser	Pro	Ala	Pro	Gln	Pro	Arg	Asn	Phe	Lys	Ile	Glu	Ala	Arg	
		275					280					285			

<210> 6986

<211> 303

<212> PRT

<213> Enterobacter cloacae

<400> 6986

Asp	Ala	Val	Arg	Pro	Gly	Asn	Cys	Arg	Ser	Asn	Arg	Leu	Tyr	Arg	Arg
1				5					10					15	
Trp	Thr	His	Ser	Gly	Asn	Arg	Val	Pro	Gly	Ala	Ile	Phe	Gln	Pro	Thr
			20					25					30		
Val	Ala	Ser	Ala	Cys	Glu	Ala	Val	Pro	Ala	Lys	Ser	Ala	Gly	Ser	Ala
		35					40					45			
Ala	Ser	Gly	Ala	Thr	Val	Met	Pro	Ala	Leu	Asp	Trp	Gln	Gly	Val	Leu
	50					55				60					
Ala	Gly	Gln	Pro	Leu	His	Trp	Ile	Leu	Ser	Gly	Phe	Leu	Thr	Thr	Leu
65					70					75					80

Trp Val Thr Leu Ala Gly Ile Met Leu Ala Ser Leu Leu Ala Leu Phe
 85 90 95
 Phe Met Leu Leu Arg Leu Ser Gly Gly Arg Leu Gly Thr Ser Phe Val
 100 105 110
 Ser Gly Trp Val Ser Leu Phe Arg Asn Thr Pro Leu Leu Val Gln Leu
 115 120 125
 Leu Phe Trp Tyr Phe Ala Ala Trp Asn Gly Leu Pro Gln Glu Leu Arg
 130 135 140
 Asp Ala Val Asn Ala Asp His Ser Trp Ser Ile Leu Pro Gly Asp Val
 145 150 155 160
 Trp Trp Phe Thr Pro Glu Phe Leu Cys Ser Ala Trp Gly Leu Gly Val
 165 170 175
 Phe Thr Ser Ala Phe Leu Ile Glu Glu Val Glu Ser Gly Leu Arg Ser
 180 185 190
 Val Pro Ala Gly Gln Arg Glu Ala Ala Leu Ala Gln Gly Phe Ser Ser
 195 200 205
 Trp Arg Leu Phe Arg Tyr Ile Leu Leu Pro Gln Gly Leu Ala Asn Ala
 210 215 220
 Trp Gln Pro Val Val Gly Gln Tyr Leu Asn Leu Met Lys Leu Ser Ser
 225 230 235 240
 Leu Ala Ser Gly Ile Gly Phe Ala Glu Leu Thr Tyr Gln Val Arg Gln
 245 250 255
 Ile Glu Ser Tyr Asn Ala His Ala Leu Glu Ala Phe Thr Val Gly Thr
 260 265 270
 Val Leu Tyr Leu Leu Thr Gly Met Val Thr Gly Ser Val Leu Val Arg
 275 280 285
 Leu Gly Pro His Ser Gly Arg Lys Asn His Asp Pro Arg Ile
 290 295 300

<210> 6987

<211> 276

<212> PRT

<213> Enterobacter cloacae

<400> 6987

Lys Pro Gly Asn Met Leu Ser Gly Leu Phe Ser His Ser Ala Ala Asn
 1 5 10 15
 Ala Ala Asp Phe Ser Arg Leu Glu Gln Ala Ser Val Glu Phe Arg His
 20 25 30
 Val Asp Lys Arg Tyr Gly Asp His Pro Val Leu Thr Asp Ile Asn Leu
 35 40 45
 Thr Ile Met Pro Gly Glu Val Val Ala Ile Leu Gly Pro Ser Gly Ser
 50 55 60
 Gly Lys Ser Thr Leu Ile Arg Leu Ile Asn Gln Leu Glu Ser Leu Ser
 65 70 75 80
 Gly Gly Glu Ile Leu Val Asp His Lys Pro Thr Gly Gln Leu Ser Gly
 85 90 95
 Ser Arg Leu Arg Gln Leu Arg Ser Arg Val Gly Phe Val Phe Gln Gln
 100 105 110
 Phe Asn Leu Tyr Ala His Leu Thr Ala Ser Gln Asn Ile Thr Leu Ala
 115 120 125
 Leu Glu His Val His Gly Trp Lys Pro Met Pro Ala Gln Glu Arg Ala
 130 135 140
 Leu Ala Leu Leu Glu Lys Val Gly Met Leu Glu Lys Ala His Arg Tyr
 145 150 155 160
 Pro Ala Glu Leu Ser Gly Gly Gln Gln Gln Arg Val Ala Ile Ala Arg
 165 170 175
 Ala Leu Ala Ser Ser Pro Gln Ile Ile Leu Phe Asp Glu Pro Thr Ser
 180 185 190
 Ala Leu Asp Pro Glu Met Ile Gly Glu Val Leu Leu Val Met Lys Ala
 195 200 205

Leu Ala His Ser Gly Ile Thr Met Ile Val Val Thr His Glu Met Gln
 210 215 220
 Phe Ala Arg Glu Ile Ala Asp Arg Ile Val Phe Ile Asp Gly Gly His
 225 230 235 240
 Ile Leu Glu Thr Ala Ser Pro Ala Gln Phe Phe Asn Gln Pro Ser His
 245 250 255
 Pro Arg Ala Arg Arg Phe Leu Gln Lys Val Leu Asp Pro Leu Arg Gln
 260 265 270
 Glu Gln Leu
 275

<210> 6988

<211> 245

<212> PRT

<213> Enterobacter cloacae

<400> 6988

Arg Gly Ala Cys Trp Cys Ala Ser Ala Pro Ile Gln Gly Gly Lys Ile
 1 5 10 15
 Met Ile Pro Gly Phe Asn Val Ile Val Glu Asn Leu Asp Tyr Leu Leu
 20 25 30
 Trp Gly Arg Ala Ile Ala Gly Glu Pro Gly Gly Val Leu Leu Ser Leu
 35 40 45
 Leu Met Ala Ala Gly Ala Ala Ala Leu Ala Leu Pro Gly Gly Ile Val
 50 55 60
 Leu Ala Cys Val Ala Trp Arg Tyr Pro Gly Val Val Arg Ser Ala Leu
 65 70 75 80
 Phe Ala Trp Ala Glu Leu Ile Arg Gly Ile Pro Leu Ile Phe Val Ile
 85 90 95
 Phe Trp Met Trp Tyr Leu Leu Pro Leu Ile Thr Gly Arg Asp Leu Pro
 100 105 110
 Gly Ala Thr Thr Val Thr Leu Ala Leu Ala Trp Phe Thr Ala Ala Ala
 115 120 125
 Val Met His Ser Val Leu Ala Gly Leu Arg Ala Leu Pro Ser Gly Gln
 130 135 140
 Asn Glu Ala Ala Leu Ser Gln Gly Phe Ser Thr Gln Gln Thr Leu Trp
 145 150 155 160
 Arg Val Leu Leu Pro Gln Ala Leu Arg Asn Ile Leu Pro Ser Leu Val
 165 170 175
 Gly Ile Phe Ile Ser Leu Leu Lys Asp Thr Ser Leu Ala Phe Ile Val
 180 185 190
 Asn Val Pro Glu Leu Thr Thr Val Ala Gly Gln Val Asn Asn Arg Val
 195 200 205
 Gln Ile Tyr Pro Ala Ala Ile Phe Ile Phe Thr Gly Val Ile Tyr Tyr
 210 215 220
 Leu Leu Cys Cys Ser Leu Glu Leu Leu Ala Lys Arg Trp Arg Val Ser
 225 230 235 240
 Arg Pro Ala Leu
 245

<210> 6989

<211> 292

<212> PRT

<213> Enterobacter cloacae

<400> 6989

Leu Arg Gly Gly Ala Pro Pro Glu Arg Asp Phe His Ile Leu Pro Asn
 1 5 10 15
 Leu Lys Thr Lys Thr Val Met Lys Lys Thr Lys Ile Val Cys Thr Ile
 20 25 30
 Gly Pro Lys Thr Glu Ser Glu Glu Met Leu Ser Lys Met Leu Asp Ala

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<210> 6990
<211> 534
<212> PRT
<213> Enterobacter cloacae
```

Leu	Ser	Ala	Ile	Cys	Ile	Ser	Gly	His	Thr	His	Pro	Ala	Lys	Ser	Val
1				5					10					15	
Asn	Phe	Ala	Ala	Leu	Tyr	Ala	Asp	Leu	Ala	Ile	Leu	Thr	Ser	Gly	Gln
		20					25						30		
Leu	Tyr	Val	Leu	Leu	Ser	Phe	His	Leu	Lys	Ile	Gln	Gly	Leu	Phe	Leu
		35					40					45			
Ser	Val	Leu	Lys	Pro	Gly	Glu	Thr	Phe	Phe	Ile	Glu	Lys	Ile	Ser	Trp
	50					55					60				
Phe	Tyr	His	Pro	Val	Ile	Thr	Ser	Ser	Gln	Asp	Met	Thr	Met	Thr	Leu
65					70					75					80
Tyr	His	Ser	Val	Thr	Glu	Leu	Ile	Gly	Arg	Thr	Pro	Leu	Ile	Gln	Leu
				85					90					95	
His	Lys	Leu	Asp	Thr	Gly	Pro	Cys	Ser	Leu	Phe	Leu	Lys	Leu	Glu	Asn
			100					105					110		
Gln	Asn	Pro	Gly	Gly	Ser	Ile	Lys	Asp	Arg	Val	Ala	Leu	Ser	Met	Ile
		115					120					125			
Asn	Glu	Ala	Glu	Arg	Thr	Gly	Gln	Leu	Arg	Pro	Gly	Gly	Thr	Ile	Ile
	130					135					140				
Glu	Ala	Thr	Ala	Gly	Asn	Thr	Gly	Leu	Gly	Leu	Ala	Leu	Ile	Ala	Ala
145					150					155					160
Gln	Lys	Gly	Tyr	Ser	Leu	Ile	Leu	Val	Val	Pro	Asp	Lys	Met	Ser	Arg


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      165      170      175
Glu Lys Ile Phe His Leu Arg Ala Leu Gly Ala Gln Val Val Leu Thr
      180      185      190
Arg Ser Asp Val Asn Lys Gly His Pro Ala Tyr Tyr Gln Asp Tyr Ala
      195      200      205
Arg Arg Leu Ala Asn Glu Leu Pro Gly Ala Phe Tyr Ile Asp Gln Phe
      210      215      220
Ser Asn Ala Ala Asn Pro Leu Ala His Arg Thr Thr Thr Ala Pro Glu
      225      230      235
Leu Phe Glu Gln Leu Asp Gly Gln Ile Asp Ala Ile Val Val Gly Val
      245      250      255
Gly Ser Gly Gly Thr Leu Gly Gly Leu Gln Ala Trp Phe Ala Glu His
      260      265      270
Ser Pro Gln Thr Glu Phe Val Leu Ala Asp Pro Ala Gly Ser Val Leu
      275      280      285
Ala Asp Gln Val Glu Thr Gly Arg Tyr His Asp Ala Gly Ser Trp Leu
      290      295      300
Val Glu Gly Ile Gly Glu Asp Phe Ile Pro Pro Leu Ala His Ile Glu
      305      310      315
Gly Val Asn Arg Ala Trp Arg Ile Thr Asp Arg Glu Ala Phe Thr Thr
      325      330      335
Ala Arg Asp Leu Leu Lys Thr Glu Gly Ile Leu Ala Gly Ser Ser Thr
      340      345      350
Gly Thr Leu Leu Ala Thr Ala Leu Lys Tyr Cys Gln Ala Gln Thr Thr
      355      360      365
Pro Lys Arg Val Val Thr Phe Ala Cys Asp Ser Gly Asn Lys Tyr Leu
      370      375      380
Ser Lys Met Phe Asn Asp Trp Met Arg Gln Gln Gly Leu Ile Ser
      385      390      395
Arg Pro Gln Ala Gly Asp Leu Ser Asp Tyr Ile Ala Leu Arg His Asp
      405      410      415
Glu Gly Ala Thr Val Thr Ala Ala Pro Asp Asp Thr Leu Ser Thr Val
      420      425      430
Leu Ala Arg Met Arg Leu Tyr Glu Ile Ser Gln Leu Pro Val Leu Asp
      435      440      445
Asn Asn Lys Val Val Gly Ile Ile Asp Glu Trp Asp Leu Leu Arg His
      450      455      460
Ile Gly Gly Asp Ala Asp Arg Phe Ser Leu Pro Val Thr Ala Ala Met
      465      470      475
Thr Arg Gln Val Glu Tyr Leu Asp Lys Gln Ala Pro Glu Ser Ala Leu
      485      490      495
Tyr Ala Ile Phe Asp Arg Gly Leu Val Ala Ile Ile Tyr Asp Gly Asn
      500      505      510
Arg Phe Leu Gly Leu Ile Thr Arg Ser Asp Val Leu Thr Ala Trp Arg
      515      520      525
Asn Arg Leu Thr Lys
      530

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<210> 6991

<211> 386

<212> PRT

<213> Enterobacter cloacae

<400> 6991

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Lys Glu Gln Lys Met Lys Asn Leu Ala Thr Leu Ser Val His Ser Gly
1      5      10      15
Glu Tyr His Asp Pro His Gly Ala Val Met Pro Pro Ile Tyr Ala Thr
      20      25      30
Ser Thr Phe Ala Gln Pro Ala Pro Gly Glu His Thr Gly Tyr Glu Tyr
      35      40      45
Ser Arg Ser Gly Asn Pro Thr Arg His Ala Leu Glu Thr Ala Ile Ala

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      50      55      60
Glu Leu Glu Gly Gly Thr Arg Gly Tyr Ala Phe Ala Ser Gly Leu Ala
65      70      75      80
Ala Ile Ser Thr Val Leu Glu Leu Leu Asp Gln Asp Ser His Ile Val
      85      90      95
Ala Ile Asp Asp Val Tyr Gly Gly Thr Tyr Arg Leu Ile Glu Asn Val
      100      105      110
Arg Lys Arg Ser Thr Gly Leu Gln Val Ser Trp Val Lys Pro Asp Asp
      115      120      125
Val Ala Gly Leu Glu Ala Ala Ile Arg Pro Asp Thr Arg Met Ile Trp
      130      135      140
Val Glu Thr Pro Thr Asn Pro Leu Leu Lys Leu Ala Asp Leu Glu Ala
145      150      155      160
Ile Ala Asp Ile Ala Arg Arg His Asn Ala Ile Ser Val Ala Asp Asn
      165      170      175
Thr Phe Ala Ser Pro Val Ile His Arg Pro Leu Glu Ala Gly Phe Asp
      180      185      190
Ile Val Val His Ser Ala Thr Lys Tyr Leu Asn Gly His Ser Asp Val
      195      200      205
Val Ala Gly Leu Ala Val Val Gly Ala Asn Lys Asp Leu Ala Glu Arg
      210      215      220
Leu Gly Tyr Leu Gln Asn Ala Ile Gly Gly Val Leu Asp Pro Phe Ser
225      230      235      240
Ser Phe Leu Thr Leu Arg Gly Ile Arg Thr Leu Ser Leu Arg Val Glu
      245      250      255
Lys His Ser Ala Asn Ala Leu Ala Ile Ala Gln Trp Leu Glu Gln His
      260      265      270
Pro Gln Val Asp Ser Val Phe Tyr Pro Gly Leu Ala Ser His Pro Gln
      275      280      285
Tyr Ala Leu Ala Arg Arg Gln Met Ala Leu Pro Gly Gly Met Ile Ser
      290      295      300
Val Val Ile Lys Gly Asp Ala Gln Arg Ala Thr Glu Val Ile Arg His
305      310      315      320
Leu Thr Leu Phe Thr Leu Ala Glu Ser Leu Gly Gly Val Glu Ser Leu
      325      330      335
Val Ser Gln Pro Tyr Ser Met Thr His Ala Ser Ile Pro Leu Ala Gln
      340      345      350
Arg Leu Ala Asn Gly Ile Val Pro Gln Leu Ile Arg Leu Ser Val Gly
      355      360      365
Ile Glu Asp Ala Lys Asp Leu Ile Ala Asp Leu Lys Gln Ala Leu Lys
      370      375      380
Lys
385

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<210> 6992

<211> 285

<212> PRT

<213> Enterobacter cloacae

<400> 6992

```

Gly Arg Glu Ala His Gln Gly Lys Gly Gly Phe Glu Lys Met Gly Ile
1      5      10      15
Gly Ala Ser Leu Lys Gln Leu Gly Pro Gln Gly Met Gln Ile Ser Asp
      20      25      30
Asp Val Lys Gly Thr Ser Pro Asp Arg Leu Thr Gly Thr Asp Val Met
      35      40      45
Ala Ala Ile Gly Thr Thr Ser Ser Arg Ala Arg Phe Gly Leu Ala Ala
      50      55      60
Phe Phe Gly Lys Ala Gly Ile Ser Lys Thr Asp Glu Gln Leu Ala Val
      65      70      75      80
Gln Ala Leu Ala Arg Tyr Ala Met Asp Val Ala Pro Lys Asn Val Arg

```

85 90 95
 Lys Ala Ala Gly Gln Phe Gly Trp Cys Met Gln Met Leu Ala Gln
 100 105 110
 Phe Ala Phe Ala Asp Tyr Ser Arg Ser Ala Ala Thr Ser Ala Thr Cys
 115 120 125
 His Ser Cys Cys Gly Thr Gly Arg Thr Thr Arg Glu Gln Ile Thr Arg
 130 135 140
 Lys Val Ser Tyr Pro Trp Gly Lys Ala Pro Tyr Trp Ala Cys Arg Ser
 145 150 155 160
 Arg Ala Val Arg Pro Ser Asp Trp Glu Gln Trp Thr Glu Val Thr Glu
 165 170 175
 Val Val Pro Ala Val Cys Asp Val Cys Glu Gly Lys Gly Thr Ile Ser
 180 185 190
 Ala Arg Cys Arg Cys Gly Gly Lys Gly Glu Val Leu Asp Arg Lys Ala
 195 200 205
 Thr Lys Glu Arg Gly Ala Pro Val Phe Lys Thr Cys Glu Arg Cys Ser
 210 215 220
 Gly Asn Gly Phe Ser Ala Ile Ser Ser Ala Thr Val His Arg Ala Ile
 225 230 235 240
 Leu Lys Arg Leu Pro Asp Leu His Gln Ser Ser Trp Ser Arg Asn Trp
 245 250 255
 Lys Pro Phe Tyr Glu Met Leu Val Asp Thr Leu Arg Gln Gly Glu Arg
 260 265 270
 His Ala Ala Val Glu Phe Glu Lys Ala Thr Thr Tyr
 275 280 285

<210> 6993

<211> 121

<212> PRT

<213> Enterobacter cloacae

<400> 6993

Val Leu Met Pro Ala Ala Ile Pro Arg Ala Cys Arg Lys Arg Gly Cys
 1 5 10 15
 Ser Gly Thr Thr Thr Asp Arg Ser Gly Tyr Cys Glu His His Arg Asn
 20 25 30
 Glu Gly Trp Gln Gln His Gln Arg Gly Gln Ser Arg His Gln Arg Gly
 35 40 45
 Tyr Gly Ser Lys Trp Asp Arg Leu Arg Gln Ile Val Leu Asp Arg Asp
 50 55 60
 Lys His Leu Cys Gln Glu Cys Leu Arg Asn Gly Arg Tyr Thr Pro Ala
 65 70 75 80
 Glu Thr Val Asp His Ile Lys Pro Lys Ala His Gly Gly Thr Asp Asp
 85 90 95
 Leu Ser Asn Leu Glu Ser Ile Cys Arg Gly Cys His Lys Ala Lys Thr
 100 105 110
 Ala Arg Glu Arg Leu Asn Arg Asn
 115 120

<210> 6994

<211> 590

<212> PRT

<213> Enterobacter cloacae

<400> 6994

Pro Ala Gly Arg Val Tyr Glu Ser Glu Gly Leu Met Ala Lys Val Ala
 1 5 10 15
 Glu Gly Ile Arg Tyr Ala Glu Arg Val Val Ala Gly Glu Ile Ile Ala
 20 25 30
 Cys Glu Tyr Val Arg Leu Ala Cys Gln Arg Phe Leu Asp Asp Leu Ala
 35 40 45

His	Gly	Glu	Glu	Arg	Gly	Ile	Phe	Phe	Ser	Glu	Pro	Arg	Ala	Gln	His
	50					55					60				
Ile	Leu	Asn	Phe	Tyr	Asn	Phe	Val	Pro	His	Val	Lys	Gly	Ala	Leu	Ala
65					70					75					80
Gly	Gln	Pro	Ile	Glu	Leu	Met	Asp	Trp	His	Val	Phe	Ile	Leu	Ile	Asn
				85					90					95	
Ile	Phe	Gly	Phe	Val	Ile	Pro	Leu	Val	Asn	Glu	Glu	Thr	Gly	Glu	Thr
				100				105					110		
Val	Leu	Arg	Asn	Asp	Gly	Ser	Gly	Arg	Pro	Val	Met	Val	Arg	Arg	Phe
		115					120					125			
Arg	Thr	Ala	Asp	Val	Glu	Val	Ala	Arg	Lys	Asn	Ala	Lys	Ser	Thr	Leu
	130						135				140				
Cys	Ser	Gly	Val	Gly	Leu	Tyr	Met	Ala	Gly	Ala	Asp	Gly	Glu	Gly	Gly
145					150					155					160
Ala	Glu	Val	Tyr	Ser	Ala	Ala	Thr	Thr	Arg	Asp	Gln	Ala	Arg	Ile	Val
				165					170					175	
Phe	Glu	Asp	Ala	Lys	Asn	Met	Val	Lys	Lys	Ala	Lys	Ala	Thr	Leu	Gly
				180				185					190		
Arg	Ile	Phe	Glu	Phe	Asn	Lys	Leu	Ala	Ile	Tyr	Gln	Glu	Gln	Ala	Ala
		195					200					205			
Ser	Lys	Phe	Glu	Pro	Leu	Ser	Ser	Asp	Ala	Asn	Asn	Leu	Asp	Gly	Leu
	210					215					220				
Asn	Ile	His	Cys	Ala	Ile	Val	Asp	Glu	Leu	His	Ala	His	Lys	Thr	Arg
225					230					235					240
Asp	Val	Trp	Asp	Val	Leu	Glu	Thr	Ala	Thr	Gly	Ala	Arg	Leu	Gln	Ser
				245					250					255	
Leu	Leu	Phe	Gly	Ile	Thr	Thr	Ala	Gly	Phe	Asn	Lys	Glu	Gly	Ile	Cys
			260					265					270		
Tyr	Glu	Leu	Arg	Asp	Tyr	Ala	Ile	Lys	Val	Leu	Arg	Gly	Leu	Val	Lys
		275					280					285			
Asp	Asp	Thr	Phe	Phe	Ala	Ile	Ile	Tyr	Thr	Leu	Asp	Glu	Gly	Asp	Asp
	290					295					300				
Pro	Phe	Asp	Glu	Lys	Val	Trp	Gln	Lys	Ala	Asn	Pro	Gly	Leu	Gly	Ile
305					310					315					320
Cys	Lys	Arg	Trp	Asp	Asp	Leu	Arg	Arg	Leu	Ala	Lys	Lys	Ala	Lys	Glu
				325					330					335	
Gln	Val	Ser	Ala	Arg	Ile	Asn	Phe	Phe	Thr	Lys	His	Met	Asn	Ile	Trp
				340				345					350		
Val	Thr	Ala	Glu	Ser	Ala	Trp	Met	Asp	Met	Met	Lys	Trp	Glu	Lys	Cys
		355					360					365			
Glu	Phe	Ile	Ala	Pro	Gln	His	Glu	Leu	Lys	Thr	Tyr	Pro	Ser	Trp	Val
	370					375					380				
Gly	Val	Asp	Leu	Ser	Asn	Lys	Ile	Asp	Ile	Cys	Ala	Ala	Ala	Lys	Val
385					390					395					400
Trp	Arg	Ala	Pro	Asp	Gly	His	Val	His	Ala	Asp	Phe	Lys	Phe	Trp	Leu
				405					410					415	
Pro	Glu	Gly	Arg	Leu	Glu	Lys	Cys	Ser	Arg	Gln	Met	Ala	Glu	Leu	Tyr
			420					425				430			
Arg	Lys	Trp	Ala	Gly	Met	Asp	Lys	Leu	Ile	Leu	Thr	Asp	Gly	Asp	Val
		435					440					445			
Ile	Asp	His	Ala	Gln	Ile	Lys	Glu	Glu	Leu	Gln	Leu	Trp	Val	Ala	Gly
	450					455					460				
Glu	Ser	Leu	Lys	Glu	Ile	Gly	Phe	Asp	Pro	Trp	Ser	Ala	Thr	Gln	Phe
465					470					475					480
Ser	Leu	Ala	Leu	Ala	Glu	Glu	Gly	Leu	Pro	Leu	Val	Glu	Val	Pro	Gln
				485					490					495	
Thr	Val	Arg	Asn	Phe	Ser	Glu	Ala	Met	Lys	Glu	Val	Glu	Ala	Leu	Val
			500					505					510		
Tyr	Gly	Gly	Arg	Phe	His	His	Ser	Asp	His	Pro	Val	Met	Asn	Trp	Met
	515						520					525			
Met	Ser	Asn	Val	Thr	Val	Lys	Pro	Asp	Arg	Asn	Glu	Asn	Ile	Phe	Pro

530		535		540
Asn Lys Ser Thr Pro Glu Ala Lys Ile Asp Gly Pro Ala Ala Leu Phe				
545		550		555
Thr Ala Met Ser Arg Val Leu Val Asn Gly Gly Asn Asp Gln Gln Asp				
	565		570	
Leu Ser Gly Phe Phe Asn Asn Pro Ile Met Val Gly Phe				
	580		585	590

<210> 6995

<211> 292

<212> PRT

<213> Enterobacter cloacae

<400> 6995

Asn Arg Pro Leu Arg Ser Thr Phe Leu Met Ser Lys Lys Gln Leu Pro				
1	5	10	15	
Val Ala Pro Ala Gly Arg Pro Cys Ala Arg Val Thr Cys Glu Thr Leu				
	20	25	30	
Pro Ser Ala Leu Asp Arg Trp Asp Gly Gly Ile Lys Ala Ala Ala Thr				
	35	40	45	
Asp Asp Asn Ser Ile Ser Val Phe Asp Val Ile Gly Gln Asp Tyr Trp				
	50	55	60	
Gly Glu Gly Val Thr Ala Lys Arg Ile Ala Gly Ala Leu Arg Ala Met				
65	70	75	80	
Asn Gly Ala Asp Val Thr Val Asn Ile Asn Ser Pro Gly Gly Asp Met				
	85	90	95	
Phe Glu Gly Leu Ala Ile Tyr Asn Leu Leu Arg Glu Tyr Glu Gly Arg				
	100	105	110	
Val Thr Val Lys Val Leu Gly Ile Ala Ala Ser Ala Ala Ser Val Ile				
	115	120	125	
Ala Met Ala Gly Asp Asp Ile Gln Ile Gly Arg Gly Ala Phe Leu Met				
	130	135	140	
Ile His Asn Cys Trp Val Tyr Ala Met Gly Asn Arg His Asp Phe Ala				
145	150	155	160	
Glu Leu Ser Gln Ser Leu Glu Pro Phe Asp Asn Ala Met Ala Asp Ile				
	165	170	175	
Tyr Ala Ala Arg Ser Gly Leu Asp Met Ala Ala Val Gln Lys Leu Met				
	180	185	190	
Asp Ala Glu Ser Tyr Ile Gly Gly Ser Asp Ala Val Ala Lys Gly Leu				
	195	200	205	
Ala Asp Ser Leu Leu Ser Ala Asp Ala Val Ser Asp Gly Asp Glu Ser				
	210	215	220	
Pro Ala Ala Ala Leu Arg Lys Leu Asp Ala Leu Leu Ala Lys Thr Asn				
225	230	235	240	
Thr Pro Arg Ser Glu Arg Arg Lys Leu Ile Lys Ala Leu Ser Gly Gly				
	245	250	255	
Met Pro Gly Ala Val Thr Thr Asn Asp Gly Thr Pro Gly Ala Ala Glu				
	260	265	270	
Asp Ile Lys Pro Glu Thr Leu Asn Ser Leu Glu Asn Ala Leu Ala Ala				
	275	280	285	
Leu Val Lys				
290				

<210> 6996

<211> 407

<212> PRT

<213> Enterobacter cloacae

<400> 6996

Gly Pro Phe Met Ser Glu Val Asn Glu Ile Leu Lys Lys Val Thr Ala			
1	5	10	15

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Ser Ile Glu Asp Ala Thr Ser Lys Phe Asn Ala Lys Ala Glu Glu Ala
      20      25      30
Leu Thr Glu Ala Lys Lys Asn Gly Gln Leu Ser Ala Gln Thr Lys Asp
      35      40      45
Val Val Asp Lys Met Ala Thr Glu Leu Asn Ala Leu Lys Glu Ala Glu
      50      55      60
Lys Thr Leu Lys Ala Ser Leu Gly Glu Leu Glu Gln His Val Ala Gln
      65      70      75      80
Met Pro Leu Asn Asn Ala Ala Lys Val Thr Glu Thr Val Gly Gln Val
      85      90      95
Val Ile Asn Ser Glu Ala Leu Lys Ala Phe Ala Ala Ser Val Glu Gly
      100      105      110
Asn Lys Arg Val Ser Val Pro Val His Ala Ala Leu Leu Ser Thr Asp
      115      120      125
Val Ala Asp Gly Val Val Glu Pro Gln Arg Leu Pro Gly Ile Asp Thr
      130      135      140
Ala Pro Lys Gln Arg Leu Phe Ile Arg Asp Leu Ile Ala Pro Gly Arg
      145      150      155      160
Thr Ser Ser Pro Ala Ile Phe Trp Val Gln Gln Thr Gly Phe Thr Asn
      165      170      175
Ala Ala Lys Val Val Ala Glu Gly Thr Ala Lys Pro Tyr Ser Asp Ile
      180      185      190
Glu Phe Ala Thr Lys Ile Thr Pro Val Thr Thr Ile Ala His Met Phe
      195      200      205
Lys Ala Ser Lys Gln Ile Leu Asp Asp Phe Ala Gln Leu Gln Ser Thr
      210      215      220
Val Asp Ala Glu Met Arg Tyr Gly Leu Lys Tyr Val Glu Glu Gln Glu
      225      230      235      240
Ile Leu Phe Gly Asp Gly Thr Gly Val His Leu His Gly Ile Val Pro
      245      250      255
Gln Ala Ser Ala Phe Asp Pro Ala Phe Ser Val Glu Ser Gln Asn Gly
      260      265      270
Ile Asp Asp Leu Arg Leu Ala Met Leu Gln Ala Gln Leu Ala Arg Phe
      275      280      285
Pro Ala Ser Gly His Val Leu His Phe Ile Asp Trp Ala Lys Ile Glu
      290      295      300
Leu Thr Lys Asp Ser Leu Gly Arg Tyr Ile Leu Ala Asn Pro Ala Ser
      305      310      315      320
Leu Thr Gly Pro Thr Leu Trp Gly Leu Pro Val Val Ala Thr Glu Ala
      325      330      335
Ala Ala Phe Gln Gly Lys Phe Leu Thr Gly Ala Phe Asn Ala Ala Ala
      340      345      350
Gln Leu Phe Asp Arg Glu Asp Ala Asn Val Val Ile Ser Thr Glu Asn
      355      360      365
Ala Asp Asp Phe Glu Lys Asn Met Ile Ser Ile Arg Cys Glu Glu Arg
      370      375      380
Leu Ala Leu Ala Val Lys Arg Pro Glu Ala Phe Val Tyr Gly Ser Phe
      385      390      395      400
Ser Thr Gly Ala Gly Ser
      405

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<210> 6997

<211> 222

<212> PRT

<213> Enterobacter cloacae

<400> 6997

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Met Asn Arg Glu Thr Lys Gln Met Leu Thr Leu Ser Lys Phe Gln Gln
1      5      10      15
Ala Thr Gly Thr Ser Ala Glu Leu Ala Gly Lys Trp Phe Pro Val Val
20      25      30

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Leu Ala Ala Met Gln Lys Tyr Asp Ile Ser Thr Pro Leu Arg Gln Ala
 35 40 45
 His Phe Leu Ala Gln Val Gly His Glu Ser Ser Gly Phe Val Arg Val
 50 55 60
 Glu Glu Ser Leu Asn Tyr Arg Tyr Gly Ala Leu Leu Ala Met Phe Gly
 65 70 75 80
 Asn Arg Ile Ser Gln Glu Asp Ala Phe Arg Tyr Gly Arg Val Asp Ser
 85 90 95
 Gly Gln Asn Pro His Pro Ala Asp Gln Lys Met Ile Gly Ser Ile Ile
 100 105 110
 Tyr Ala Asn Arg Asn Gly Asn Gly Asp Arg Asn Ser Gly Asp Gly Tyr
 115 120 125
 Arg Tyr Arg Gly Arg Gly Leu Ile Gln Val Thr Gly Lys Ala Asn Tyr
 130 135 140
 Ala Ala Leu Val Lys Gln Leu Gly Val Asp Ile Val Lys Ser Pro Glu
 145 150 155 160
 Leu Leu Thr Gln Pro Gln Tyr Ala Ala Glu Ser Ala Ala Ala Trp Trp
 165 170 175
 Ser Asn His Gly Leu Asn Ala Ile Ala Asp Ser Asp Asp Val Ser Arg
 180 185 190
 Ile Thr Arg Ile Ile Asn Gly Gly Thr Asn Gly Leu Glu Asp Arg Lys
 195 200 205
 Ala Arg Leu Thr Lys Ala Lys Gly Val Leu Cys Ser Gly
 210 215 220

<210> 6998

<211> 316

<212> PRT

<213> Enterobacter cloacae

<400> 6998

Ile Met Gly Gln Lys Ile Ile Thr Leu Ser Gly Ala Ala Thr Asp Val
 1 5 10 15
 Leu Tyr Ala Leu Phe Phe Arg Gly Ala Leu Gln Ser Gly Asp Leu Pro
 20 25 30
 Ala Lys Ser Gly Ala Ala Glu Leu Arg Glu Leu Gly Phe Ala Glu Thr
 35 40 45
 Arg His Thr Ala Thr Glu Tyr Gln Lys Glu Asn Tyr Phe Thr Phe Leu
 50 55 60
 Thr Ala Glu Gly Gln Ala Phe Ala Ile Glu His Leu Ala Asn Thr Arg
 65 70 75 80
 Phe Gly Val Lys Gln Tyr Cys Ser Ala Ile Asn Ile Gly Val Glu Leu
 85 90 95
 Asp Thr Thr Asp Ala Gln Lys Ala Ile Asp Asp Leu Asp Asp Lys Ile
 100 105 110
 Arg Asn Ser Asp Ala Phe Lys Val Leu Lys Asp Gly Trp Ser Phe Glu
 115 120 125
 Lys Asn Gly Thr Leu Val Ile Asn Asn Gly Gln Val Phe Ile Thr Asp
 130 135 140
 Ala Lys Ile Ser Asp Gly Val Leu Ser Thr Asn Tyr Asn Val Lys Leu
 145 150 155 160
 Asn Asp Ala Asp Lys Gly Lys Pro His Glu Ala Gly Met Thr Leu Gly
 165 170 175
 Val Glu Glu Gly Lys Gln Gln Ala Thr Phe Lys Ala Asp Arg Phe Lys
 180 185 190
 Val His Glu Ala Ala Gln Ser Ala Ser Asn Asn Glu Glu Thr Ala Phe
 195 200 205
 Asn Gly Gly Leu Ala Phe Gly Gly Phe Pro Gly Ala Ile Ser His Asp
 210 215 220
 Gly Ala Asn Pro Ala Asp Gly Asn Asn Ala Thr Ala Glu Pro Ile Ser
 225 230 235 240

Ser Ile Ala Ser Ala Thr Gly Thr Ala Thr Lys Ala Arg Leu Thr Asp
 245 250 255
 Glu Met Gln Glu Leu Val Leu Lys Ala Val Arg Glu Ser Asp Leu Phe
 260 265 270
 Thr Ser Leu Gln Thr Ala Ile Ala Ala Lys Ala Ala Ser Thr Ala Gly
 275 280 285
 Leu Gln Gln Ala Val Asn Asp Ala Val Ser Asn Ala Ile Arg Asn Ala
 290 295 300
 Leu Lys Pro Gly Gly Leu Leu Tyr Gly Lys Cys
 305 310 315

<210> 6999

<211> 162

<212> PRT

<213> Enterobacter cloacae

<400> 6999

Glu Phe Ser Ile Met Ser Gly Pro Pro Lys Thr Pro Thr His Leu Arg
 1 5 10 15
 Leu Val Arg Gly Asn Pro Ser Lys Arg Pro Ile Asn Glu Asn Glu Pro
 20 25 30
 Lys Pro Pro Ser Gly Val Pro Pro Thr Pro Lys His Phe Asp Lys Gln
 35 40 45
 Gly Lys Tyr Trp Phe Lys Arg Met Ala Asp Glu Leu Asp Ala Ile Gly
 50 55 60
 Val Met Ser Gln Leu Asp Ala Arg Ala Leu Glu Leu Leu Val Glu Ala
 65 70 75 80
 Tyr Thr Glu Tyr Arg His His Cys Asp Thr Leu Glu Val Glu Gly Tyr
 85 90 95
 Thr Tyr Arg Thr Glu Thr Gln Asn Gly Asp Val Leu Ile Lys Ala His
 100 105 110
 Pro Ala Ala Ile Met Lys Ala Asp Ala Trp Lys Arg Leu Arg Ala Met
 115 120 125
 Leu Gly Glu Phe Gly Met Thr Pro Ala Ser Arg Thr Lys Val Asn Ala
 130 135 140
 Lys Gly Pro Asp Ala Val Asp Pro Leu Ala Glu Phe Met Lys Ala Arg
 145 150 155 160
 Asp

<210> 7000

<211> 442

<212> PRT

<213> Enterobacter cloacae

<400> 7000

Ser His His Gly Arg Phe Leu Met Lys Lys Asn Lys Arg Pro Gly Arg
 1 5 10 15
 Val Lys Ser Ala Leu Leu Asn Trp Leu Gly Val Pro Ile Ser Leu Thr
 20 25 30
 Thr Gly Thr Phe Trp Glu Glu Trp Phe Gly Thr Ser Ser Ser Gly Lys
 35 40 45
 Val Val Thr Ala Asp Lys Ala Ile Gln Leu Ser Ala Val Trp Ala Cys
 50 55 60
 Val Arg Leu Leu Ser Glu Ser Ile Ser Thr Leu Pro Leu Lys Ile Tyr
 65 70 75 80
 Val Arg Gln Pro Asp Gly Ser Arg Lys Ala Ala Thr Asp His Pro Ala
 85 90 95
 Tyr Ser Ile Leu Cys Arg Arg Pro Asn Ser Glu Met Thr Pro Ser Arg
 100 105 110
 Phe Met Leu Met Val Val Ala Ser Ile Cys Leu Arg Gly Asn Ala Phe


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      115              120              125
Ile Glu Lys Lys Phe Ile Ala Asn Arg Leu Val Ser Leu Val Pro Leu
    130              135              140
Leu Pro Gln Asn Met Val Val Lys Arg Leu Thr Thr Gly Ala Leu Glu
145              150              155              160
Tyr Lys Tyr Thr Glu Asn Gly Asn Glu Arg Val Ile Pro Val Lys Asn
    165              170              175
Ile Met His Ile Arg Gly Phe Gly Leu Asp Gly Val Cys Gly Met Met
    180              185              190
Pro Met Lys Thr Gly Arg Asp Val Ile Gly Ser Ala Met Ala Val Glu
    195              200              205
Glu Ser Ala Ala Lys Ile Phe Glu Gln Gly Leu Gln Ser Ser Gly Phe
    210              215              220
Leu Ser Ser Asp Lys Ala Leu Asp Asp Thr Gln Arg Glu Lys Leu Arg
225              230              235              240
Gly Tyr Met Ala Ala Phe Thr Gly Ser Lys Asn Ala Gly Lys Ile Met
    245              250              255
Val Leu Glu Gly Gly Leu Thr Tyr Gln Gly Val Thr Met Asn Pro Glu
    260              265              270
Asp Ala Gln Met Leu Glu Ser Arg Ala Phe Ser Ile Glu Glu Ile Cys
    275              280              285
Arg Trp Phe Arg Val Pro Pro Phe Met Val Gly His Thr Thr Lys Gln
    290              295              300
Ser Ser Trp Ala Ser Ser Leu Glu Gly Met Asn Leu Gln Phe Leu Thr
305              310              315              320
His Thr Leu Arg Pro Leu Leu Val Asn Ile Glu Gln Glu Ile Gly Arg
    325              330              335
Cys Leu Leu Asp Ser Asp Asp Glu Val Phe Ala Glu Phe Ser Val Glu
    340              345              350
Gly Leu Leu Arg Ala Asp Ser Ala Gly Arg Ala Ala Tyr Tyr Thr Ser
    355              360              365
Ala Leu Gln Asn Gly Trp Met Ser Arg Asn Asp Val Arg Arg Leu Glu
    370              375              380
Asn Met Pro Pro Ile Glu Gly Gly Asp Ile Tyr Thr Val Gln Leu Asn
385              390              395              400
Leu Thr Gln Leu Lys Asn Leu Glu Ser Ser Asn Pro Ala Val Gln Ala
    405              410              415
Leu Ala Leu Arg Glu Leu His Asn His Ile Phe Pro Asp Ile Ser Phe
    420              425              430
Glu Gln Ser Pro Leu Lys Gln Ala Ala
    435              440

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<210> 7001

<211> 157

<212> PRT

<213> Enterobacter cloacae

<400> 7001

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Ile Ile Ser Ile Phe Phe Asn Ser Leu Arg Val Cys Arg Asp Leu Ile
1      5      10      15
Leu Met Leu Asn Leu Ile Leu Ser Gln Leu Phe Asn Glu Arg Gly Ile
    20      25      30
Ala Met Ser Trp Arg Val Ile Ser Ser Val Ile Cys Pro Asn Thr Gly
    35      40      45
Ile Val Tyr Ser Ser Ile Leu Gly Leu Lys Phe Leu Lys Leu Ile Ile
    50      55      60
Trp Tyr Glu Ser Asp Val Tyr Leu Tyr Pro Gly Asp Arg Ile Tyr Pro
65      70      75      80
Thr Lys Asn Gly Val Phe Ile Asn Gly Val Phe Lys Pro Ile Ser Ile
    85      90      95
Tyr Asn Ile Ser Pro Tyr Asn Glu Met Leu Trp Ser Glu Ile Lys Asn

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	100		105		110										
Lys	Met	Ala	Cys	Pro	Tyr	Asn	Arg	Asn	Gln	Gln	Glu	Glu	Ile	Cys	Thr
	115					120					125				
Tyr	Ala	Val	His	Cys	Asn	Ala	Arg	Lys	Cys	Pro	His	Gly	Phe	Thr	Thr
	130				135						140				
Asn	Pro	Leu	Ile	Val	Ser	Thr	Ala	Lys	Ser	Arg	His				
145					150					155					

<210> 7002

<211> 445

<212> PRT

<213> Enterobacter cloacae

<400> 7002

Lys	Thr	Cys	Ser	Glu	Ala	Pro	Val	Ser	Val	Arg	Leu	Met	Lys	Lys	Leu
1			5					10					15		
Phe	Val	Gln	Phe	Tyr	Leu	Leu	Leu	Phe	Val	Cys	Phe	Leu	Val	Met	Thr
		20					25					30			
Met	Leu	Val	Gly	Leu	Val	Tyr	Lys	Phe	Thr	Ala	Glu	Arg	Ala	Gly	Arg
		35				40					45				
Gln	Ser	Leu	Asp	Asp	Leu	Met	Lys	Ser	Ser	Leu	Tyr	Leu	Met	Arg	Ser
	50				55					60					
Glu	Leu	Arg	Glu	Ile	Pro	Pro	His	Asp	Trp	Ala	Arg	Thr	Leu	Lys	Glu
65				70				75						80	
Leu	Asp	Leu	Asn	Leu	Ser	Phe	Asp	Leu	Arg	Ile	Glu	Pro	Met	Lys	Asp
			85				90					95			
Phe	Asp	Leu	Ala	Pro	Pro	Ala	Met	Gln	Arg	Leu	Arg	Asp	Gly	Asp	Ile
		100					105					110			
Val	Ala	Leu	Asp	Glu	Lys	Tyr	Thr	Phe	Ile	Gln	Arg	Ile	Pro	Arg	Ser
		115				120						125			
His	Tyr	Val	Leu	Ala	Val	Gly	Pro	Val	Pro	Tyr	Leu	Tyr	Tyr	Leu	His
	130				135						140				
Gln	Met	Arg	Leu	Leu	Asp	Leu	Ala	Leu	Leu	Gly	Phe	Ile	Ala	Ile	Ser
145				150				155						160	
Leu	Ala	Phe	Pro	Val	Phe	Ile	Trp	Met	Arg	Pro	His	Trp	Gln	Asp	Met
			165				170						175		
Leu	Lys	Leu	Glu	Ser	Ala	Ala	Gln	Arg	Phe	Gly	Glu	Gly	His	Leu	Thr
		180					185						190		
Glu	Arg	Ile	His	Phe	Asp	Ser	Gly	Ser	Ser	Phe	Asp	Arg	Leu	Gly	Ile
	195					200					205				
Ala	Phe	Asn	Gln	Met	Ala	Asp	Asn	Ile	Asn	Ala	Leu	Ile	Ala	Ser	Lys
	210			215						220					
Lys	Gln	Leu	Ile	Asp	Gly	Ile	Ala	His	Glu	Leu	Arg	Thr	Pro	Leu	Val
225				230					235					240	
Arg	Leu	Arg	Tyr	Arg	Leu	Glu	Met	Ser	Glu	Asn	Leu	Thr	Gly	Ala	Glu
			245					250					255		
Ser	Gln	Ala	Leu	Asn	Arg	Asp	Ile	Gly	Gln	Leu	Glu	Ala	Leu	Ile	Glu
		260				265						270			
Glu	Leu	Leu	Thr	Tyr	Ala	Arg	Leu	Asp	Arg	Pro	Gln	Thr	Glu	Leu	His
	275					280					285				
Leu	Ser	Thr	Pro	Asp	Leu	Pro	Val	Trp	Leu	Gln	Thr	His	Ile	Asn	Asp
	290				295					300					
Val	Gln	Ser	Val	Asn	Pro	Gln	Arg	Lys	Leu	Leu	Thr	Ala	Ile	Thr	Pro
305				310					315					320	
Gly	Ala	Tyr	Gly	Ala	Leu	Asp	Met	Arg	Leu	Met	Glu	Arg	Val	Leu	Asp
			325					330					335		
Asn	Leu	Met	Asn	Asn	Ala	Met	Arg	Tyr	Ser	Glu	Thr	Thr	Leu	Arg	Ile
		340				345						350			
Gly	Leu	Asp	Leu	Gln	Gly	Ser	Gln	Ala	Ile	Leu	Cys	Val	Glu	Asp	Asp
	355				360						365				
Gly	Pro	Gly	Ile	Glu	Pro	Ala	Glu	Arg	Glu	Lys	Val	Phe	Glu	Pro	Phe

370	375	380
Val Arg Leu Asp Pro Ser Arg Asp Arg Ala Thr Gly Gly Cys Gly Leu		
385	390	395
Gly Leu Ala Ile Val Arg Ser Ile Ala Gln Ala Met Gly Gly Ser Val		
	405	410
Arg Cys Glu Ala Ser Glu Leu Gly Gly Ala Arg Phe Val Phe Ser Trp		
	420	425
Pro Ile Tyr His Asn Ile Pro Leu Pro Val Pro Ala		
	435	440
		445

<210> 7003

<211> 473

<212> PRT

<213> Enterobacter cloacae

<400> 7003

Leu Phe Trp Ile Trp Thr Phe His Asn Arg Lys Pro Met Glu Lys Lys		
1	5	10
Leu Gly Leu Ser Ala Leu Thr Ala Leu Val Leu Ser Ser Met Leu Gly		
	20	25
Ala Gly Val Phe Ser Leu Pro Gln Asn Met Ala Ala Val Ala Ser Pro		
	35	40
Ala Ala Leu Leu Ile Gly Trp Gly Ile Thr Gly Val Gly Ile Leu Leu		
	50	55
Leu Ala Phe Ala Met Leu Leu Leu Thr Arg Ile Arg Pro Asp Leu Asp		
	65	70
Gly Gly Ile Phe Thr Tyr Ala Arg Glu Gly Phe Gly Glu Leu Ile Gly		
	85	90
Phe Cys Ser Ala Trp Gly Tyr Trp Leu Cys Ala Val Ile Ala Asn Val		
	100	105
Ser Tyr Leu Val Ile Val Phe Ser Ala Leu Ser Phe Phe Thr Asp Thr		
	115	120
Pro Glu Leu Arg Leu Phe Gly Asp Gly Asn Thr Trp Gln Ser Ile Val		
	130	135
Gly Ala Ser Val Leu Leu Trp Ile Val His Trp Leu Ile Leu Arg Gly		
	145	150
Val Gln Thr Ala Ala Ser Ile Asn Leu Val Ala Thr Leu Ala Lys Leu		
	165	170
Val Pro Leu Gly Leu Phe Val Val Leu Ala Phe Leu Ala Phe Arg Leu		
	180	185
Asp Val Phe Thr Leu Asp Phe Ser Gly Ile Ala Leu Gly Val Pro Val		
	195	200
Trp Glu Gln Val Lys Asn Thr Met Leu Ile Thr Leu Trp Val Phe Ile		
	210	215
Gly Val Glu Gly Ala Val Val Val Ser Ala Arg Ala Arg Asn Lys Arg		
	225	230
Asp Val Gly Arg Ala Thr Leu Leu Ala Val Leu Ala Ala Leu Gly Val		
	245	250
Tyr Leu Leu Val Thr Leu Leu Ser Leu Gly Val Val Ala Arg Pro Glu		
	260	265
Leu Ala Glu Met Arg Asn Pro Ser Met Ala Gly Leu Met Val Lys Met		
	275	280
Leu Gly Pro Trp Gly Asp Val Ile Ile Ala Ala Gly Leu Ile Val Ser		
	290	295
Val Cys Gly Ala Tyr Leu Ser Trp Thr Ile Met Ala Ala Glu Val Pro		
	305	310
Phe Leu Ala Ala Thr His Lys Ala Phe Pro Arg Leu Phe Ala Arg Gln		
	325	330
Asn Lys Asn Ser Ala Pro Ser Ala Ser Leu Trp Leu Thr Asn Ile Ser		
	340	345
Val Gln Val Cys Leu Val Leu Ile Trp Leu Thr Gly Ser Asp Tyr Asn		

355 360 365
 Thr Leu Leu Thr Ile Ala Ser Glu Met Ile Leu Val Pro Tyr Phe Leu
 370 375 380
 Val Gly Ala Tyr Leu Leu Lys Ile Ala Thr Arg Pro Ala His Tyr Ala
 385 390 395 400
 Val Gly Val Gly Ala Cys Ile Tyr Gly Leu Trp Leu Leu Tyr Ala Ser
 405 410 415
 Gly Pro Met His Leu Leu Leu Ser Val Val Leu Tyr Ala Pro Gly Leu
 420 425 430
 Leu Val Phe Ile Tyr Ala Arg Arg Thr His Gln Leu Asp Asn Ala Leu
 435 440 445
 Lys Arg Arg Glu Met Ala Leu Ile Gly Leu Leu Leu Val Ala Ala Val
 450 455 460
 Pro Ala Thr Trp Met Leu Met Gly
 465 470

<210> 7004

<211> 245

<212> PRT

<213> Enterobacter cloacae

<400> 7004

Thr Glu Lys Glu Ile Thr Met Gly His Thr Gln Gln Arg Pro Ile Leu
 1 5 10 15
 Ile Thr Gly Ala Gly Arg Arg Ile Gly Leu Ala His His Phe Leu Asn
 20 25 30
 Leu Arg His Pro Val Ile Val Ser Tyr Arg Thr Glu Tyr Pro Ser Ile
 35 40 45
 Glu Gly Leu Arg Asn Ala Gly Ala Val Cys Ile Gln Ala Asp Phe Ser
 50 55 60
 Thr Asp Glu Gly Ile Leu Ala Phe Ala Asp Lys Val Lys Ser Thr Thr
 65 70 75 80
 His Gly Leu Arg Ala Val Ile His Asn Ala Ser Thr Trp Leu Pro Glu
 85 90 95
 Lys Ala Gly His Ser Leu Ser Glu Thr Leu Ala Cys Met Met Gln Ile
 100 105 110
 His Val Asn Ala Pro Tyr Leu Leu Asn His Ala Leu Gln Asp Leu Leu
 115 120 125
 Arg Gly His Gly His Ala Ala Gly Asp Ile Ile His Phe Thr Asp Tyr
 130 135 140
 Val Val Glu Arg Gly Ser Asp Lys His Ile Ala Tyr Ala Ala Ser Lys
 145 150 155 160
 Ala Ala Leu Asp Asn Met Thr Arg Ser Phe Ala Arg Lys Leu Ala Pro
 165 170 175
 Glu Val Lys Val Asn Ala Ile Ala Pro Ala Met Ile Leu Phe Asn Glu
 180 185 190
 Gly Asp Asp Ala Glu Tyr Arg Gln Gln Ala Leu Asn Lys Ser Leu Met
 195 200 205
 Lys Ile Ala Pro Gly Glu Lys Glu Val Ile Asp Leu Ile Asp Tyr Leu
 210 215 220
 Leu Thr Ser Cys Tyr Val Thr Gly Arg Thr Phe Ala Val Asp Gly Gly
 225 230 235 240
 Arg Pro Leu Arg
 245

<210> 7005

<211> 255

<212> PRT

<213> Enterobacter cloacae

<400> 7005

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Asp Cys Ala Val Tyr Val Asp Val Phe Cys Asp Asp Arg Arg Cys Met
1      5      10      15
Asn Lys Ile Val Tyr Val Glu Asp Glu Pro Glu Val Gly Gln Leu Ile
20      25      30
Ala Ala Tyr Leu Gly Lys His Asp Met Glu Val Val Val Glu Pro Arg
35      40      45
Gly Asp Arg Ala Glu Asp Val Val Thr Arg Glu Asn Pro Asp Leu Val
50      55      60
Leu Leu Asp Ile Met Leu Pro Gly Lys Asp Gly Met Thr Leu Cys Arg
65      70      75      80
Asp Leu Arg Thr Lys Trp Asp Gly Pro Ile Val Leu Leu Thr Ser Leu
85      90      95
Asp Ser Asp Met Asn His Ile Leu Ser Leu Glu Met Gly Ala Asn Asp
100     105     110
Tyr Ile Leu Lys Thr Thr Pro Pro Ala Val Leu Leu Ala Arg Leu Arg
115     120     125
Leu His Leu Arg Gln Arg Ala Ser Gly Ala Glu Arg Glu Ala Ser Ala
130     135     140
Pro Ser Leu Thr Pro His Lys Ala Met Arg Phe Gly Thr Leu Ser Ile
145     150     155     160
Asp Pro Val Asn Arg Gln Val Met Leu Ser Gly Glu Leu Ile Ala Leu
165     170     175
Ser Thr Ala Asp Phe Asp Leu Leu Trp Glu Leu Ala Thr His Ala Gly
180     185     190
Gln Ile Met Asp Arg Asp Ala Leu Leu Lys Asn Leu Arg Gly Val Ser
195     200     205
Tyr Asp Gly Met Asp Arg Ser Val Asp Val Ala Ile Ser Arg Leu Arg
210     215     220
Lys Lys Leu Leu Asp Asn Ala Thr Glu Pro Tyr Arg Ile Lys Thr Val
225     230     235     240
Arg Asn Lys Gly Tyr Leu Phe Ala Pro His Ala Trp Glu Thr
245     250     255

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<210> 7006

<211> 330

<212> PRT

<213> Enterobacter cloacae

<400> 7006

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Gln Gln His Gln Tyr Met Val Cys Ala Arg Arg Arg Ile Ile Phe Met
1      5      10      15
Lys Leu Lys Asn Thr Leu Leu Ala Ser Ala Leu Leu Ser Ala Thr Ala
20      25      30
Leu Ser Ala Asn Ala Ala Thr Glu Leu Thr Pro Glu Gln Ala Ala Ala
35      40      45
Leu Lys Pro Phe Asp His Thr Val Ile Val Gly Arg Tyr Asn Ser Ile
50      55      60
Gly Asp Ala Val Ala Ala Ala Ser Lys Ala Ala Asp Lys Asn Gly Ala
65      70      75      80
Ala Ser Phe Tyr Val Val Asp Gln Ser Asp Gln Gly Asn Ser Gly Asn
85      90      95
Gln Arg Val Thr Ile Ala Leu Tyr Lys Asp Asn Ala Pro Lys Ala Asp
100     105     110
Glu Gln Lys Asn Arg Val Ile Asn Gly Ile Val Glu Leu Pro Lys Asp
115     120     125
Gln Ala Val Gln Leu Glu Pro Tyr Asp Thr Val Thr Val Gln Gly Phe
130     135     140
Tyr Arg Ser Gln Pro Glu Val Asn Asp Ala Ile Thr Lys Ala Ala Arg
145     150     155     160
Glu Lys Gly Ala Tyr Ala Phe Tyr Ile Val Arg Gln Val Asp Ala Asn
165     170     175

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Gln Gly Gly Asn Gln Arg Ile Thr Ala Phe Ile Tyr Lys Gln Asp Ala
 180 185 190
 Lys Lys Arg Val Val Gln Ser Pro Asp Ala Ile Pro Ala Asp Ser Asp
 195 200 205
 Ala Gly Arg Ala Ala Leu Ala Lys Gly Gly Glu Glu Ala Lys Lys Val
 210 215 220
 Glu Ile Pro Gly Val Ala Thr Ser Ala Ala Pro Ser Ala Glu Val Gly
 225 230 235 240
 Arg Phe Phe Glu Thr Gln Ser Thr Lys Gly Gly Arg Tyr Thr Val Thr
 245 250 255
 Leu Pro Asp Gly Thr Lys Ile Glu Glu Leu Asn Lys Ala Thr Ala Ala
 260 265 270
 Gln Met Val Pro Phe Asp Ser Ile Lys Phe Thr Gly Asn Tyr Gly Asn
 275 280 285
 Met Thr Glu Ile Ser Tyr Gln Val Ala Lys Arg Ala Ala Lys Lys Gly
 290 295 300
 Ala Lys Tyr Tyr His Ile Thr Arg Gln Trp Gln Glu Arg Gly Asn Asn
 305 310 315 320
 Leu Thr Ile Ser Ala Asp Leu Tyr Lys
 325 330

<210> 7007

<211> 314

<212> PRT

<213> Enterobacter cloacae

<400> 7007

Leu Arg Ala Ala Met Thr Thr Tyr Asp Leu Ile Glu Arg Leu Asn Thr
 1 5 10 15
 Thr Phe Arg Glu Ile Glu Gln Ala Leu Thr Leu Thr Gly Gln Leu
 20 25 30
 Gln Asp Cys Arg Leu Leu Ala Ala Arg Val Phe Ser Leu Pro Glu Val
 35 40 45
 Ala Lys Gly Ala Glu His Asp Pro Leu Asn Thr Ile Glu Val Thr Gln
 50 55 60
 His Val Gly Lys Ala Ala Leu Glu Met Thr Leu Gln His Tyr Arg Arg
 65 70 75 80
 Leu Phe Ile Gln Gln Ser Glu Asn Arg Ser Ser Lys Ala Ala Val
 85 90 95
 Arg Leu Pro Gly Val Ile Cys Leu Gln Thr Asp Ala Ala Thr Arg Glu
 100 105 110
 Gly Ile Glu Ala Gln Ile Thr His Ile Asn Thr Leu Lys Ala Ala Phe
 115 120 125
 Glu Lys Ile Val Thr Val Glu Ser Gly Leu Ala Pro Ala Ala Arg Phe
 130 135 140
 Glu Trp Val His Arg Gln Leu Pro Gly Leu Ile Thr Leu Asn Ala Tyr
 145 150 155 160
 Arg Thr Leu Thr Val Leu Arg His Pro Ala Thr Leu Arg Phe Gly Trp
 165 170 175
 Ala Asn Lys His Ile Ile Lys Asn Phe Ala Arg Asp Glu Ile Leu Ala
 180 185 190
 Gln Leu Glu Lys Ser Leu Lys Ser Pro Arg Thr Val Ala Pro Trp Ser
 195 200 205
 Arg Glu Gln Trp Ile Glu Arg Leu Glu Gln Glu Tyr His Ser Ile Ala
 210 215 220
 Ser Leu Pro Ala Asp Thr Arg Leu Lys Ile Lys Arg Pro Val Lys Val
 225 230 235 240
 Gln Pro Ile Ala Arg Val Trp Tyr Ala Gly Gln Gln Lys Gln Val Gln
 245 250 255
 Tyr Ala Cys Pro Thr Pro Leu Ile Ala Leu Tyr Asp Ala Asp Gln Gly
 260 265 270

Ala Val Val Pro Asp Ile Gly Glu Leu Leu Asn Tyr Asp Ala Glu Asn
 275 280 285
 Val Gln His Arg Tyr Lys Pro Gln Ala Gln Pro Leu Gln Leu Ile Ile
 290 295 300
 Pro Arg Leu His Leu Tyr Val Ala Gln
 305 310

<210> 7008

<211> 405

<212> PRT

<213> Enterobacter cloacae

<400> 7008

Tyr Ala Glu Leu Ile Pro His Met Asn Gln Gly Leu Ile Met Gln Lys
 1 5 10 15
 Leu Ile Asn Ser Val Gln Asn Tyr Ala Trp Gly Ser Lys Thr Ala Leu
 20 25 30
 Thr Asp Leu Tyr Gly Ile Ala Asn Pro Asp Asn Leu Pro Met Ala Glu
 35 40 45
 Leu Trp Met Gly Ala His Pro Lys Ser Ser Ser Lys Ile Glu Asp Ala
 50 55 60
 Ser Gly Gln Val Arg Ser Leu Arg Asp Val Ile Asp Ala Asp Lys Ala
 65 70 75 80
 Ala Leu Leu Gly Asp Lys Val Ala Asn Arg Phe Gly Glu Leu Pro Phe
 85 90 95
 Leu Phe Lys Val Leu Cys Ala Asp Gln Pro Leu Ser Ile Gln Val His
 100 105 110
 Pro Asn Lys Lys Ala Ser Glu Leu Gly Phe Ala Lys Glu Asn Ala Ala
 115 120 125
 Gly Ile Pro Leu Asp Ala Val Glu Arg Asn Tyr Lys Asp Pro Asn His
 130 135 140
 Lys Pro Glu Leu Val Phe Ala Leu Thr Pro Phe Leu Ala Met Asn Ala
 145 150 155 160
 Phe Arg Glu Phe Ser Glu Ile Ile Ser Leu Leu Gln Pro Val Ala Gly
 165 170 175
 Ala His Asn Ala Ile Ala His Phe Leu Glu Asn Pro Asn Ala Glu Ala
 180 185 190
 Leu Ser Glu Leu Phe Ala Ser Leu Leu Asn Met Gln Gly Glu Glu Lys
 195 200 205
 Ser His Ala Leu Ala Val Leu Lys Ala Ala Leu Asn Ser Gln Gln Gly
 210 215 220
 Glu Pro Trp Asp Thr Ile Arg Val Ile Ser Ala Phe Tyr Pro Asp Asp
 225 230 235 240
 Ser Gly Leu Phe Ser Pro Leu Leu Leu Asn Val Val Lys Leu Asn Pro
 245 250 255
 Gly Glu Ala Met Phe Leu Phe Ala Glu Thr Pro His Ala Tyr Leu Asn
 260 265 270
 Gly Val Ala Leu Glu Val Met Ala Asn Ser Asp Asn Val Leu Arg Ala
 275 280 285
 Gly Leu Thr Pro Lys Tyr Ile Asp Ile Pro Glu Leu Val Ala Asn Val
 290 295 300
 Lys Phe Val Ala Lys Pro Ala Ala Glu Leu Leu Thr Gln Pro Val Lys
 305 310 315 320
 Asn Gly Ala Glu Leu Asp Phe Pro Ile Pro Val Asp Asp Phe Ala Phe
 325 330 335
 Ser Leu His Asp Leu Ser Ala Asp Glu Thr Ala Ile Ala Gln Glu Ser
 340 345 350
 Ala Ala Ile Leu Phe Cys Val Glu Gly Glu Ala Thr Leu His Lys Asp
 355 360 365
 Ser Asp Arg Leu Val Leu Lys Pro Gly Glu Ser Ala Phe Val Ala Ala
 370 375 380

Asn Glu Ser Pro Val Arg Val Ser Gly Thr Gly Arg Leu Ala Arg Val
 385 390 395 400
 Phe Asn Lys Leu
 405

<210> 7009
 <211> 536
 <212> PRT
 <213> Enterobacter cloacae

<220>
 <221> UNSURE
 <222> (527)

<400> 7009

Pro Pro Gly Phe Ile Leu Gly Ile Ile Ala Met Lys Lys Ser Val Val
 1 5 10 15
 Ala Val Gly Val Ile Val Ala Leu Gly Val Ile Trp Thr Gly Ala Ser
 20 25 30
 Trp Tyr Thr Gly Lys Gln Leu Glu Ser Arg Leu Ala Glu Met Met Thr
 35 40 45
 Gln Ala Asn Ser Glu Ile Lys Arg Ser Ala Pro Glu Ala Gly Leu Glu
 50 55 60
 Leu Ser Tyr Gln Asn Tyr Gln Arg Gly Val Phe Thr Ser His Met Gln
 65 70 75 80
 Val Val Val Lys Pro Val Ala Gly Asn Gln Asn Ala Trp Leu Lys Pro
 85 90 95
 Gly Gln Ser Val Val Leu Asp Glu Val Val Ser His Gly Pro Phe Pro
 100 105 110
 Leu Ala Gln Leu Lys Lys Phe Asn Leu Ile Pro Ser Met Ala Ser Ala
 115 120 125
 Arg Thr Val Leu Val Asn Asn Glu Val Thr Lys Pro Ile Phe Asp Met
 130 135 140
 Ala Lys Asn Glu Ser Pro Phe Glu Ile Asn Thr Arg Ile Ser Tyr Ala
 145 150 155 160
 Gly Asp Thr His Ser Asp Ile Asp Leu Lys Ala Leu Asn Tyr Glu Gln
 165 170 175
 Gly Thr Asp Lys Val Ala Phe Ser Gly Gly Asn Phe Gln Leu Asp Ala
 180 185 190
 Asp Arg Asp Gly Lys Asn Val Ser Leu Thr Gly Asp Ala Ala Ser Gly
 195 200 205
 Leu Val Asn Ser Val Asn Glu Tyr Asn Gln Lys Val Gln Leu Thr Phe
 210 215 220
 Asn Asn Leu Lys Ala Ser Gly Asn Ser Arg Met Thr Asp Phe Asp Glu
 225 230 235 240
 Arg Ile Gly Asp Gln Lys Leu Ser Leu Asp Lys Ile Ala Ile Ala Ile
 245 250 255
 Glu Gly Lys Glu Met Ala Val Leu Glu Gly Met Asp Leu Asp Gly Lys
 260 265 270
 Ser Asp Val Ser Lys Asp Gly Lys Ser Ile Asn Thr Gln Leu Asp Tyr
 275 280 285
 Ser Leu Lys Ser Leu Lys Val Gln Asn Gln Asp Leu Gly Thr Gly Lys
 290 295 300
 Leu Ser Leu Lys Ile Gly Asn Ile Asp Gly Gln Ala Trp His Glu Phe
 305 310 315 320
 Ser Gln Lys Tyr Ser Lys Glu Ser Gln Ala Leu Leu Thr Asp Ala Ala
 325 330 335
 Leu Gln Gln Asn Pro Gln Ala Tyr Gln Gln Gln Ala Met Thr Val Leu
 340 345 350
 Phe Asn Asn Leu Pro Ile Leu Leu Lys Gly Glu Pro Val Ile Thr Val
 355 360 365

Ala Pro Leu Ser Trp Lys Asn Gly Lys Gly Glu Thr Asn Phe Asn Leu
 370 375 380
 Ser Leu Phe Leu Lys Asp Pro Ala Ala Thr Thr Gly Glu Pro Gln Thr
 385 390 395 400
 Leu Ala Gln Glu Val Asp Arg Ser Val Lys Ser Leu Asp Ser Lys Leu
 405 410 415
 Thr Ile Pro Met Asp Met Ala Thr Glu Phe Met Thr His Ile Ala Lys
 420 425 430
 Leu Glu Gly Tyr Gly Glu Glu Asp Ala Gly Lys Leu Ala Asn Gln Gln
 435 440 445
 Val Lys Gly Leu Ala Ala Met Gly His Met Phe Arg Ile Thr Lys Val
 450 455 460
 Glu Asp Asn Thr Ile Ser Thr Ser Leu Gln Tyr Ala Asn Gly Gln Val
 465 470 475 480
 Thr Leu Asn Gly Asp Lys Met Pro Leu Glu Thr Val Cys Gln Tyr Val
 485 490 495
 Trp Tyr Gly Arg Thr Leu Gly Met Pro Glu Pro Ala Glu Thr Ala Ala
 500 505 510
 Pro Pro Ala Val Pro Gln Gln Tyr Thr Lys Asn Pro Ser His Xaa Gly
 515 520 525
 Phe Phe Ile Ala Gly Trp Arg
 530 535

<210> 7010

<211> 115

<212> PRT

<213> Enterobacter cloacae

<400> 7010

Gly Lys Arg Met Gly Leu Val Ile Lys Ala Thr Leu Gly Ala Leu Val
 1 5 10 15
 Val Leu Leu Ile Gly Val Leu Ala Lys Thr Lys Asn Tyr Tyr Ile Ala
 20 25 30
 Gly Leu Ile Pro Leu Phe Pro Thr Phe Ala Leu Ile Ala His Tyr Ile
 35 40 45
 Val Ala Ser Glu Arg Gly Ile Glu Ala Leu Arg Ala Thr Ile Val Phe
 50 55 60
 Gly Met Trp Ser Ile Ile Pro Tyr Phe Ile Tyr Leu Leu Ser Leu Trp
 65 70 75 80
 Tyr Phe Thr Gly Phe Leu Arg Leu Pro Leu Ala Leu Gly Gly Ala Val
 85 90 95
 Val Cys Trp Ser Leu Ser Ala Trp Val Leu Ile Phe Phe Trp Ser Arg
 100 105 110
 Phe His
 115

<210> 7011

<211> 466

<212> PRT

<213> Enterobacter cloacae

<400> 7011

Val Met Thr Met His Arg Arg Glu Lys Asp Ser Met Gly Ala Ile Asp
 1 5 10 15
 Val Pro Ala Asp Lys Leu Trp Gly Ala Gln Thr Gln Arg Ser Leu Glu
 20 25 30
 His Phe Arg Ile Ser Thr Glu Lys Met Pro Val Ser Leu Ile Gln Ala
 35 40 45
 Leu Ala Leu Thr Lys Arg Ala Ala Ala Lys Val Asn Gln Asp Leu Gly
 50 55 60
 Leu Leu Asp Ala Asp Lys Ala Thr Ala Ile Ile Asn Ala Ala Asp Glu

65					70					75				80
Val	Leu	Ala	Gly	Lys	His	Pro	Asp	Glu	Phe	Pro	Leu	Ala	Ile	Trp
				85					90					95
Thr	Gly	Ser	Gly	Thr	Gln	Ser	Asn	Met	Asn	Met	Asn	Glu	Val	Leu
			100					105					110	
Asn	Arg	Ala	Ser	Glu	Leu	Leu	Gly	Gly	Leu	Arg	Gly	Met	Glu	Arg
		115					120					125		
Ile	His	Pro	Asn	Asp	Asp	Val	Asn	Lys	Ser	Gln	Ser	Ser	Asn	Asp
	130					135					140			
Phe	Pro	Thr	Ala	Met	His	Val	Ala	Ala	Val	Ile	Ala	Ile	Arg	Glu
145					150					155				160
Leu	Ile	Pro	Gln	Leu	Asn	Val	Leu	Lys	Ser	Thr	Leu	Asn	Glu	Lys
			165					170						175
Gln	Ala	Phe	Arg	Asp	Ile	Val	Lys	Ile	Gly	Arg	Thr	His	Leu	Gln
			180					185					190	
Ala	Thr	Pro	Leu	Thr	Leu	Gly	Gln	Glu	Ile	Ser	Gly	Trp	Val	Ala
	195						200					205		
Leu	Glu	His	Asn	Leu	Lys	His	Ile	Asp	Asn	Ser	Leu	Pro	His	Leu
	210					215					220			
Glu	Leu	Ala	Leu	Gly	Gly	Thr	Ala	Val	Gly	Thr	Gly	Leu	Asn	Thr
225					230					235				240
Pro	Glu	Tyr	Ala	Val	Arg	Val	Ala	Glu	Glu	Leu	Ala	Lys	Ile	Thr
			245					250						255
Gln	Pro	Phe	Val	Thr	Ala	Pro	Asn	Lys	Phe	Glu	Ala	Leu	Ala	Thr
			260					265						270
Asp	Ala	Leu	Val	His	Thr	His	Gly	Ala	Leu	Lys	Gly	Leu	Ala	Ala
	275						280					285		
Leu	Met	Lys	Ile	Ala	Asn	Asp	Val	Arg	Trp	Leu	Ala	Ser	Gly	Pro
	290					295					300			
Cys	Gly	Ile	Gly	Glu	Ile	Ser	Ile	Pro	Glu	Asn	Glu	Pro	Gly	Ser
305					310					315				320
Ile	Met	Pro	Gly	Lys	Val	Asn	Pro	Thr	Gln	Cys	Glu	Ala	Met	Thr
			325						330					335
Leu	Cys	Cys	Gln	Val	Met	Gly	Asn	Asp	Val	Ala	Val	Asn	Met	Gly
			340					345					350	
Ala	Ser	Gly	Asn	Phe	Glu	Leu	Asn	Val	Tyr	Arg	Pro	Met	Val	Ile
	355						360					365		
Asn	Val	Leu	Gln	Ser	Ile	Arg	Leu	Leu	Ala	Asp	Gly	Met	Glu	Ser
	370					375					380			
Asn	Glu	His	Cys	Ala	Val	Gly	Ile	Glu	Pro	Asn	Arg	Glu	Arg	Ile
385					390					395				400
Gln	Leu	Leu	Asn	Glu	Ser	Leu	Met	Leu	Val	Thr	Ala	Leu	Asn	Thr
			405						410					415
Ile	Gly	Tyr	Asp	Lys	Ala	Ala	Glu	Ile	Ala	Lys	Lys	Ala	His	Lys
			420					425					430	
Gly	Leu	Thr	Leu	Lys	Ala	Ser	Ala	Leu	Ala	Leu	Gly	Tyr	Leu	Thr
	435						440					445		
Ala	Glu	Phe	Asp	Ala	Trp	Val	Arg	Pro	Glu	Ala	Met	Val	Gly	Ser
	450					455					460			
Arg														
465														

<210> 7012

<211> 572

<212> PRT

<213> Enterobacter cloacae

<400> 7012

Leu	Ala	Phe	Lys	Pro	Gly	Ser	Gly	Thr	Ser	Ala	Leu	Asn	Lys	Gln	Thr
1			5					10					15		
Glu	Ala	Val	Ser	Glu	Arg	Thr	Met	Ser	Asn	Lys	Pro	Phe	His	Tyr	Gln

			20					25					30			
Asp	Pro	Phe	Pro	Leu	Ser	Gln	Asp	Gln	Thr	Glu	Tyr	Tyr	Leu	Leu	Thr	
		35					40					45				
Arg	Asp	Tyr	Val	Thr	Val	Ser	Glu	Phe	Glu	Gly	Gln	Glu	Ile	Leu	Lys	
	50					55					60					
Val	Asp	Pro	Gln	Gly	Leu	Thr	Leu	Leu	Ala	Gln	Gln	Ala	Phe	His	Asp	
65					70					75					80	
Ala	Ser	Phe	Met	Leu	Arg	Pro	Ala	His	Gln	Gln	Gln	Val	Ala	Asp	Ile	
				85					90					95		
Leu	Ser	Asp	Pro	Glu	Ala	Ser	Glu	Asn	Asp	Lys	Tyr	Val	Ala	Leu	Gln	
			100					105					110			
Phe	Leu	Arg	Asn	Ser	Asp	Ile	Ala	Ala	Lys	Gly	Ile	Leu	Pro	Thr	Cys	
		115					120					125				
Gln	Asp	Thr	Gly	Thr	Ala	Ile	Ile	Thr	Gly	Lys	Lys	Gly	Gln	Arg	Val	
	130					135					140					
Trp	Thr	Gly	Gly	Gly	Asp	Glu	Ala	Thr	Leu	Ala	Arg	Gly	Val	Tyr	Asn	
145					150					155					160	
Thr	Tyr	Thr	Glu	Asp	Asn	Leu	Arg	Tyr	Ser	Gln	Asn	Ala	Ala	Leu	Asp	
				165					170					175		
Met	Tyr	Lys	Glu	Val	Asn	Thr	Gly	Thr	Asn	Leu	Pro	Ala	Gln	Ile	Asp	
			180					185					190			
Leu	Tyr	Ser	Val	Asp	Gly	Asp	Glu	Tyr	Lys	Phe	Leu	Cys	Ile	Ala	Lys	
		195					200					205				
Gly	Gly	Gly	Ser	Ala	Asn	Lys	Thr	Tyr	Leu	Tyr	Gln	Glu	Thr	Lys	Ala	
	210					215					220					
Leu	Leu	Thr	Pro	Gly	Lys	Leu	Lys	Asn	Tyr	Leu	Val	Glu	Lys	Met	Arg	
225					230					235					240	
Thr	Leu	Gly	Thr	Ala	Ala	Cys	Pro	Pro	Tyr	His	Ile	Ala	Phe	Val	Ile	
				245					250					255		
Gly	Gly	Thr	Ser	Ala	Glu	Ser	Thr	Leu	Lys	Thr	Val	Lys	Leu	Ala	Ser	
			260					265					270			
Thr	Lys	Tyr	Tyr	Asp	Gly	Leu	Pro	Thr	Glu	Gly	Asn	Glu	His	Gly	Gln	
		275					280					285				
Ala	Phe	Arg	Asp	Val	Gln	Leu	Glu	Gln	Glu	Leu	Leu	Ala	Glu	Ala	Gln	
	290					295					300					
Asn	Leu	Gly	Leu	Gly	Ala	Gln	Phe	Gly	Gly	Lys	Tyr	Phe	Ala	His	Asp	
305					310					315					320	
Ile	Arg	Val	Ile	Arg	Leu	Pro	Arg	His	Gly	Ala	Ser	Cys	Pro	Val	Gly	
				325					330					335		
Met	Gly	Val	Ser	Cys	Ser	Ala	Asp	Arg	Asn	Ile	Lys	Ala	Lys	Ile	Asn	
			340					345					350			
Arg	Asp	Gly	Ile	Trp	Ile	Glu	Lys	Leu	Glu	Asn	Asn	Pro	Gly	Lys	Tyr	
		355					360					365				
Ile	Pro	Glu	Glu	Leu	Arg	Lys	Ala	Gly	Glu	Gly	Glu	Ala	Val	Arg	Val	
		370				375										

Ala Val Leu Ala Gln Gly Ser Ile Lys Ser Leu Glu Cys Val Glu Tyr
 515 520 525
 Pro Glu Leu Gly Met Glu Ala Ile Trp Lys Ile Glu Val Glu Asp Phe
 530 535 540
 Pro Ala Phe Ile Leu Val Asp Asp Lys Gly Asn Asp Phe Phe Lys Gln
 545 550 555 560
 Ile Gln Ser Ser Gln Cys Ser Ala Cys Val Lys
 565 570

<210> 7013

<211> 313

<212> PRT

<213> Enterobacter cloacae

<400> 7013

Glu Phe Lys Met Val Lys Val Tyr Ala Pro Ala Ser Ser Ala Asn Met
 1 5 10 15
 Ser Val Gly Phe Asp Val Leu Gly Ala Ala Val Thr Pro Val Asp Gly
 20 25 30
 Ser Leu Leu Gly Asp Thr Val Thr Val Glu Ala Ala Glu Arg Phe Ser
 35 40 45
 Leu Asn Asn Ile Gly Arg Phe Ala Ser Lys Leu Pro Ser Glu Pro Arg
 50 55 60
 Glu Asn Ile Val Tyr Gln Cys Trp Glu Arg Phe Cys Gln Glu Ile Gly
 65 70 75 80
 Lys Asn Val Pro Val Ala Met Thr Leu Glu Lys Ser Met Pro Ile Gly
 85 90 95
 Ser Gly Leu Gly Ser Ser Ala Cys Ser Val Val Ala Ala Leu Val Ala
 100 105 110
 Met Asn Glu His Cys Gly Lys Pro Leu Asn Asn Ser Arg Leu Leu Ala
 115 120 125
 Leu Met Gly Glu Leu Glu Gly Arg Ile Ser Gly Ser Ile His Tyr Asp
 130 135 140
 Asn Val Ala Pro Cys Phe Leu Gly Gly Met Gln Leu Met Ile Glu Glu
 145 150 155 160
 Asn Gly Ile Ile Ser Gln Gln Val Pro Gly Phe Asp Glu Trp Leu Trp
 165 170 175
 Val Leu Ala Tyr Pro Gly Ile Lys Val Ser Thr Ala Glu Ala Arg Ala
 180 185 190
 Ile Leu Pro Ala Gln Tyr Arg Arg Gln Asp Cys Ile Ala His Gly Arg
 195 200 205
 His Leu Ala Gly Phe Ile His Ala Cys Tyr Thr Arg Gln Pro Gln Leu
 210 215 220
 Ala Ala Lys Leu Met Lys Asp Ile Ile Ala Glu Pro Tyr Arg Thr Lys
 225 230 235 240
 Leu Leu Pro Gly Phe Asn Glu Ala Arg Gln Ala Ser Met Asp Ile Gly
 245 250 255
 Ala Gln Ala Cys Gly Ile Ser Gly Ser Gly Pro Thr Leu Phe Ala Leu
 260 265 270
 Cys Asp Lys Pro Asp Thr Ala Gln Arg Val Ala Asp Trp Leu Ser Lys
 275 280 285
 His Tyr Leu Gln Asn Gln Glu Gly Phe Val His Ile Cys Arg Leu Asp
 290 295 300
 Thr Ala Gly Ala Arg Val Leu Gly
 305 310

<210> 7014

<211> 430

<212> PRT

<213> Enterobacter cloacae

<400> 7014

Arg Met Lys Leu Tyr Asn Leu Lys Asp His Asn Glu Gln Val Ser Phe
 1 5 10 15
 Ala Gln Ala Val Thr Gln Gly Leu Gly Lys Asn Gln Gly Leu Phe Phe
 20 25 30
 Pro His Asp Leu Pro Glu Phe Gln Leu Thr Glu Ile Asp Glu Leu Leu
 35 40 45
 Lys Gln Asp Phe Val Thr Arg Ser Thr Lys Ile Leu Ser Ala Phe Ile
 50 55 60
 Gly Asp Glu Ile Pro Gln Glu Leu Leu Glu Glu Arg Val Arg Ala Ala
 65 70 75 80
 Phe Ala Phe Pro Ala Pro Val Lys Gln Val Glu Pro Asp Val Gly Cys
 85 90 95
 Leu Glu Leu Phe His Gly Pro Thr Leu Ala Phe Lys Asp Phe Gly Gly
 100 105 110
 Arg Phe Met Ala Gln Met Leu Thr His Ile Ser Gly Asp Lys Pro Val
 115 120 125
 Thr Ile Leu Thr Ala Thr Ser Gly Asp Thr Gly Ala Ala Val Ala His
 130 135 140
 Ala Phe Tyr Gly Leu Lys Asn Val Arg Val Val Ile Leu Tyr Pro Lys
 145 150 155 160
 Gly Lys Ile Ser Pro Leu Gln Glu Lys Leu Phe Cys Thr Leu Gly Gly
 165 170 175
 Asn Ile Glu Thr Val Ala Ile Asp Gly Asp Phe Asp Ala Cys Gln Ala
 180 185 190
 Leu Val Lys Gln Ala Phe Asp Asp Glu Glu Leu Lys Ala Ala Leu Gly
 195 200 205
 Leu Asn Ser Ala Asn Ser Ile Asn Ile Ser Arg Leu Leu Ala Gln Ile
 210 215 220
 Cys Tyr Tyr Phe Glu Ala Val Ala Gln Leu Pro Gln Asp Ala Arg Asn
 225 230 235 240
 Gln Leu Val Val Ser Val Pro Ser Gly Asn Phe Gly Asp Leu Thr Ala
 245 250 255
 Gly Leu Leu Ala Lys Ser Leu Gly Leu Pro Val Lys Arg Phe Ile Ala
 260 265 270
 Ala Thr Asn Ala Asn Asp Thr Val Pro Arg Phe Leu Lys Asp Gly Lys
 275 280 285
 Trp Ala Pro Asn Ala Thr Gln Ala Thr Leu Ser Asn Ala Met Asp Val
 290 295 300
 Ser Gln Pro Asn Asn Trp Pro Arg Val Glu Glu Leu Phe Arg Arg Lys
 305 310 315 320
 Val Trp Arg Leu Gly Asp Leu Gly Tyr Ala Ala Val Thr Asp Glu Thr
 325 330 335
 Thr Lys Ala Thr Met Arg Glu Leu Lys Ala Val Gly Tyr Thr Ser Glu
 340 345 350
 Pro His Ala Ala Ile Ala Tyr Arg Ala Leu Arg Asp Gln Leu Gln Pro
 355 360 365
 Gly Glu Tyr Gly Leu Phe Leu Gly Thr Ala His Pro Ala Lys Phe Lys
 370 375 380
 Glu Ser Val Glu Ala Ile Leu Gly Glu Thr Leu Pro Leu Pro Lys Glu
 385 390 395 400
 Leu Ala Glu Arg Ala Asp Leu Pro Leu Leu Ser His Glu Leu Pro Ala
 405 410 415
 Asp Phe Ala Ala Leu Arg Lys Leu Met Met Thr Arg Ala
 420 425 430

<210> 7015

<211> 323

<212> PRT

<213> Enterobacter cloacae

<400> 7015

Lys Arg Asn Thr Ile Met Thr Asp Lys Leu Thr Ser Leu Arg Gln Phe
 1 5 10 15
 Thr Thr Val Val Ala Asp Thr Gly Asp Ile Ala Ala Met Lys Leu Tyr
 20 25 30
 Gln Pro Gln Asp Ala Thr Thr Asn Pro Ser Leu Ile Leu Asn Ala Ala
 35 40 45
 Gln Leu Pro Glu Tyr Arg Lys Leu Ile Asp Glu Ala Val Thr Trp Ala
 50 55 60
 Lys Ala Gln Ser Asn Asp Arg Ala Gln Gln Val Val Asp Ala Thr Asp
 65 70 75 80
 Lys Leu Ala Val Asn Ile Gly Leu Glu Ile Leu Lys Leu Val Pro Gly
 85 90 95
 Arg Ile Ser Thr Glu Val Asp Ala Arg Leu Ser Tyr Asp Thr Glu Ala
 100 105 110
 Ser Ile Ala Lys Ala Lys Arg Leu Ile Lys Leu Tyr Asn Asp Ala Gly
 115 120 125
 Ile Ser Asn Asp Arg Ile Leu Ile Lys Leu Ala Ser Thr Trp Gln Gly
 130 135 140
 Ile Arg Ala Ala Glu Gln Leu Glu Lys Glu Gly Ile Asn Cys Asn Leu
 145 150 155 160
 Thr Leu Leu Phe Ser Phe Ala Gln Ala Arg Ala Cys Ala Glu Ala Gly
 165 170 175
 Val Tyr Leu Ile Ser Pro Phe Val Gly Arg Ile Leu Asp Trp Tyr Lys
 180 185 190
 Ala Asn Thr Asp Lys Lys Glu Tyr Ala Ala Ser Glu Asp Pro Gly Val
 195 200 205
 Ile Ser Val Thr Glu Ile Tyr Glu Tyr Tyr Lys Gln His Gly Tyr Glu
 210 215 220
 Thr Val Val Met Gly Ala Ser Phe Arg Asn Val Gly Glu Ile Ile Glu
 225 230 235 240
 Leu Ala Gly Cys Asp Arg Leu Thr Ile Ala Pro Ala Leu Leu Lys Glu
 245 250 255
 Leu Ala Glu Ser Glu Gly Ala Ile Glu Arg Lys Leu Ser Tyr Thr Gly
 260 265 270
 Glu Val Lys Ala Arg Pro Glu Arg Ile Thr Glu Ser Glu Phe Leu Trp
 275 280 285
 Gln His Asn Gln Asp Pro Met Ala Val Asp Lys Leu Ala Asp Gly Ile
 290 295 300
 Arg Lys Phe Ala Ile Asp Gln Glu Lys Leu Glu Lys Met Ile Gly Asp
 305 310 315 320
 Leu Leu

<210> 7016

<211> 179

<212> PRT

<213> Enterobacter cloacae

<400> 7016

Pro Glu Arg Asp Phe Cys Arg Val Ala Ala Thr Pro Tyr Arg Ala Tyr
 1 5 10 15
 Asn Gly Ser Glu Arg Arg Pro Gly Lys Arg Ser Ala Thr Arg Leu Phe
 20 25 30
 Tyr Gly Glu Ile Lys Glu Lys Asn Ser Arg Lys Lys Ala Glu Ile Pro
 35 40 45
 Asn Lys Cys Gly His Leu Ala Phe Arg Ile Ala Glu Asn Asn Ile Pro
 50 55 60
 Arg Ser His His Val Leu Ser Leu His Arg Pro Thr Leu Gly Lys Lys
 65 70 75 80
 Asn Lys Glu Ser Pro Met Ser Thr Leu Lys Pro Ala Leu Ile Ala Leu

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<210> 7017
<211> 450
<212> PRT
<213> Enterobacter cloacae
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<400> 7017															
Ser 1	Thr	Thr	His	Ala 5	Gln	Trp	Phe	Ala	Met 10	Ser	His	Asn	Thr	Arg 15	Pro
Leu	Asn	Arg	Gln 20	Asp	Tyr	Lys	Thr	Leu 25	Thr	Leu	Ala	Ala 30	Leu	Gly	Gly
Ala	Leu	Glu 35	Phe	Tyr	Asp	Phe	Ile 40	Ile	Phe	Val	Phe	Phe 45	Ala	Ala	Val
Val	Gly 50	Ala	Leu	Phe	Phe	Pro 55	Ala	Asp	Ile	Pro	Glu 60	Trp	Leu	Arg	Gln
Val 65	Gln	Thr	Phe	Gly	Ile 70	Phe	Ala	Ala	Gly	Tyr 75	Leu	Ala	Arg	Pro	Leu 80
Gly	Gly	Ile	Val	Met 85	Ala	His	Phe	Gly	Asp 90	Leu	Val	Gly	Arg	Lys 95	Lys
Met	Phe	Thr	Leu 100	Ser	Ile	Leu	Leu	Met 105	Ala	Val	Pro	Thr	Leu 110	Ala	Ile
Gly	Leu	Leu 115	Pro	Thr	Tyr	Glu	Ser	Met 120	Gly	Ile	Ile	Ala 125	Pro	Leu	Leu
Leu	Leu	Leu 130	Met	Arg	Ile	Leu	Gln	Gly 135	Ala	Ala	Ile	Gly 140	Gly	Glu	Val
Pro 145	Gly	Ala	Trp	Val	Phe 150	Val	Ala	Glu	His	Val 155	Pro	Val	Arg	Arg	Ile 160
Gly	Ile	Ala	Cys	Gly 165	Thr	Leu	Thr	Ala	Gly 170	Leu	Thr	Ile	Gly	Ile 175	Leu
Phe	Gly	Ser	Val 180	Val	Ala	Thr	Ile	Ile 185	Asn	Thr	Ser	Met	Thr 190	Gln	Gln
Ala	Val	His 195	Asp	Trp	Gly	Trp	Arg	Ile 200	Pro	Phe	Leu	Leu 205	Gly	Gly	Ala
Phe	Gly 210	Leu	Val	Ala	Met	Tyr 215	Leu	Arg	Arg	Trp	Leu	Gln 220	Glu	Thr	Pro
Ile 225	Phe	Leu	Glu	Met	Gln 230	Gln	Arg	Lys	Ala	Leu 235	Ala	Gln	Glu	Leu	Pro 240
Val	Lys	Thr	Val	Val 245	Val	Arg	His	Lys	Lys 250	Ala	Val	Val	Val	Ser 255	Met
Leu	Leu	Thr 260	Trp	Leu	Leu	Ser	Ala	Gly 265	Ile	Val	Val	Val	Ile 270	Leu	Met
Ser	Pro 275	Val	Trp	Leu	Gln	Lys	Gln	Tyr 280	Gly	Phe	Ala	Pro 285	Ala	Val	Thr
Leu	Gln 290	Ala	Asn	Ser	Ile	Ala 295	Thr	Ile	Met	Leu	Cys 300	Phe	Gly	Cys	Leu
Ala 305	Ala	Gly	Leu	Ala	Ala 310	Asp	Arg	Phe	Gly	Ala 315	Ser	Val	Thr	Phe	Ile 320
Val	Gly	Ser	Leu	Leu	Leu	Ala	Ala	Ser	Ser	Trp	Ala	Phe	Tyr	His	Leu

325 330 335
 Ala Gly Thr His Pro Glu Gln Leu Phe Leu Leu Tyr Gly Val Val Gly
 340 345 350
 Leu Cys Val Gly Val Val Gly Ala Val Pro Tyr Val Met Val Arg Ala
 355 360 365
 Phe Pro Pro Glu Val Arg Phe Thr Gly Ile Ser Phe Ser Tyr Asn Val
 370 375 380
 Ser Tyr Ala Ile Phe Gly Gly Leu Thr Pro Ile Val Val Thr Val Leu
 385 390 395 400
 Met Gly Leu Ser Pro Leu Ala Pro Ala Trp Tyr Val Leu Ala Leu Ser
 405 410 415
 Leu Met Gly Leu Val Leu Gly Met Trp Leu Arg Gln Ser Glu Gly Arg
 420 425 430
 Arg Ala Arg Asp Ala Gly Thr Thr Glu Gly Ser Val Phe Phe Thr Asn
 435 440 445
 Arg
 450

<210> 7018

<211> 822

<212> PRT

<213> Enterobacter cloacae

<400> 7018

Asn Met Arg Val Leu Lys Phe Gly Gly Thr Ser Val Ala Asn Ala Glu
 1 5 10 15
 Arg Phe Leu Arg Val Ala Asp Ile Leu Glu Ser Asn Ala Arg Gln Gly
 20 25 30
 Gln Val Ala Thr Val Leu Ser Ala Pro Ala Lys Ile Thr Asn His Leu
 35 40 45
 Val Ala Met Ile Glu Lys Thr Ile Gly Gly Gln Asp Ala Leu Pro Asn
 50 55 60
 Ile Ser Asp Ala Glu Arg Ile Phe Ala Asp Leu Leu Gln Gly Leu Ala
 65 70 75 80
 Asp Ala Gln Pro Gly Phe Pro Leu Ala Gln Leu Lys Ser Thr Val Glu
 85 90 95
 Leu Glu Phe Ala Gln Ile Lys His Val Leu His Gly Ile Ser Leu Leu
 100 105 110
 Gly Gln Cys Pro Asp Ser Ile Asn Ala Ala Leu Ile Cys Arg Gly Glu
 115 120 125
 Lys Leu Ser Ile Ala Ile Met Ala Gly Val Leu Glu Ala Arg Gly His
 130 135 140
 His Val Thr Val Ile Asp Pro Val Glu Lys Leu Leu Ala Val Gly His
 145 150 155 160
 Tyr Leu Glu Ser Thr Val Asp Ile Ala Glu Ser Thr Arg Arg Ile Ala
 165 170 175
 Ala Ser Lys Ile Pro Ser Asp His Met Ile Leu Met Ala Gly Phe Thr
 180 185 190
 Ala Gly Asn Glu Lys Gly Glu Leu Val Val Leu Gly Arg Asn Gly Ser
 195 200 205
 Asp Tyr Ser Ala Ala Val Leu Ala Ala Cys Leu Arg Ala Asp Cys Cys
 210 215 220
 Glu Ile Trp Thr Asp Val Asp Gly Val Tyr Thr Cys Asp Pro Arg Gln
 225 230 235 240
 Val Pro Asp Ala Arg Leu Leu Lys Ser Met Ser Tyr Gln Glu Ala Met
 245 250 255
 Glu Leu Ser Tyr Phe Gly Ala Lys Val Leu His Pro Arg Thr Ile Ser
 260 265 270
 Pro Ile Ala Gln Phe Gln Ile Pro Cys Leu Ile Lys Asn Thr Gly Asn
 275 280 285
 Pro Gln Ala Pro Gly Thr Leu Ile Gly Ala Ser Ala Asp Glu Asp Asp

290	295	300
Leu Pro Val Lys Gly Ile Ser Asn Leu Asn Asn Met Ala Met Phe Ser		
305	310	315
Val Ser Gly Pro Gly Met Lys Gly Met Val Gly Met Ala Ala Arg Val		
	325	330
Phe Ala Ala Met Ser Arg Asn Gly Ile Ser Val Val Leu Ile Thr Gln		
	340	345
Ser Ser Ser Glu Tyr Ser Ile Ser Phe Cys Val Pro Gln Gly Asp Cys		
	355	360
Leu Arg Ala Arg Arg Ala Leu Glu Glu Glu Phe Tyr Leu Glu Leu Lys		
	370	375
Glu Glu Leu Leu Glu Pro Leu Ser Ile Gln Glu Arg Leu Ala Ile Ile		
385	390	395
Ser Val Val Gly Asp Gly Met Arg Thr Leu Arg Gly Ile Ser Ala Lys		
	405	410
Phe Phe Ala Ala Leu Ala Arg Ala Asn Ile Asn Ile Val Ala Ile Ala		
	420	425
Gln Gly Ser Ser Glu Arg Ser Ile Ser Val Val Val Asp Asn Asp Asp		
	435	440
Ala Thr Thr Gly Val Arg Val Val His Gln Met Leu Phe Asn Thr Asp		
	450	455
Gln Val Ile Glu Leu Phe Leu Val Gly Val Gly Gly Val Gly Gly Ala		
465	470	475
Leu Leu Glu Gln Val Lys Arg Gln Gln Glu Trp Leu Lys Lys Lys His		
	485	490
Ile Asp Leu Arg Val Cys Gly Ile Ala Asn Ser Lys Ala Leu Leu Thr		
	500	505
Asn Val His Gly Leu Asn Leu Glu Asn Trp Gln Ala Glu Leu Glu Glu		
	515	520
Ala Lys Glu Pro Phe Asn Leu Gly Arg Leu Ile Arg Leu Val Lys Glu		
	530	535
Tyr His Leu Leu Asn Pro Val Ile Val Asp Cys Thr Ser Ser Gln Ala		
545	550	555
Val Ala Asp Gln Tyr Ala Asp Phe Leu Arg Glu Gly Phe His Val Val		
	565	570
Thr Pro Asn Lys Lys Ala Asn Thr Ser Ser Met Asp Tyr Tyr His Gln		
	580	585
Leu Arg Leu Ala Ala Ser Lys Ser Arg Arg Lys Phe Leu Tyr Asp Thr		
	595	600
Asn Val Gly Ala Gly Leu Pro Val Ile Glu Asn Leu Gln Asn Leu Leu		
	610	615
Asn Ala Gly Asp Glu Leu Lys Arg Phe Ser Gly Ile Leu Ser Gly Ser		
625	630	635
Leu Ser Phe Ile Phe Gly Lys Leu Asp Glu Gly Met Ser Leu Ser Glu		
	645	650
Ala Thr Arg Ala Ala Arg Glu Leu Gly Tyr Thr Glu Pro Asp Pro Arg		
	660	665
Asp Asp Leu Ser Gly Met Asp Val Ala Arg Lys Leu Leu Ile Leu Val		
	675	680
Arg Glu Thr Gly Arg Glu Leu Glu Leu Ser Asp Ile Val Ile Glu Pro		
	690	695
Val Leu Pro Ala Glu Phe Asp Asp Ser Gly Asp Val Ser Ala Phe Met		
705	710	715
Ala Asn Leu Pro Gln Leu Asp Asp Ala Phe Ala Ala Arg Val Ala Lys		
	725	730
Ala Arg Asp Glu Gly Lys Val Leu Arg Tyr Val Gly Asn Ile Glu Glu		
	740	745
Asp Gly Val Cys Arg Val Lys Ile Ala Glu Val Asp Gly Asn Asp Pro		
	755	760
Leu Tyr Lys Val Lys Asn Gly Glu Asn Ala Leu Ala Phe Tyr Ser His		
770	775	780

Tyr Tyr Gln Pro Leu Pro Leu Val Leu Arg Gly Tyr Gly Ala Gly Asn
 785 790 795 800
 Asp Val Thr Ala Ala Gly Val Phe Ala Asp Leu Leu Arg Thr Leu Ser
 805 810 815
 Trp Lys Leu Gly Val
 820

<210> 7019

<211> 250

<212> PRT

<213> Enterobacter cloacae

<400> 7019

Val Cys Tyr Arg Pro Gly Lys Thr Gly Lys Asn Asp Arg Arg Pro Ala
 1 5 10 15
 Val Ile Ile Leu Arg Asp Arg Val Pro Gly His Ala Ser Phe Pro Arg
 20 25 30
 Leu Cys Leu Asn Phe Leu Ser Ala Cys Ile Ile Pro Phe Asn Gln Tyr
 35 40 45
 Phe Leu Asn Gly Met Asp Met Asn Thr Leu Arg Ile Gly Leu Val Ser
 50 55 60
 Ile Ser Asp Arg Ala Ser Ser Gly Val Tyr Gln Asp Lys Gly Ile Pro
 65 70 75 80
 Ala Leu Glu Ala Trp Leu Gly Ser Ala Leu Thr Thr Pro Phe Glu Ile
 85 90 95
 Gln Thr Arg Leu Ile Pro Asp Glu Gln Pro Ile Ile Glu Gln Thr Leu
 100 105 110
 Cys Glu Leu Val Asp Glu Met Ser Cys His Leu Val Leu Thr Thr Gly
 115 120 125
 Gly Thr Gly Pro Ala Arg Arg Asp Val Thr Pro Asp Ala Thr Leu Ala
 130 135 140
 Ile Ala Asp Arg Glu Met Pro Gly Phe Gly Glu Gln Met Arg Gln Ile
 145 150 155 160
 Ser Leu His Phe Val Pro Thr Ala Ile Leu Ser Arg Gln Val Gly Val
 165 170 175
 Ile Arg Lys Gln Ala Leu Ile Leu Asn Leu Pro Gly Gln Pro Lys Ser
 180 185 190
 Ile Lys Glu Thr Leu Glu Gly Val Lys Ala Glu Asp Gly Ser Val Ile
 195 200 205
 Val His Gly Ile Phe Ala Ser Val Pro Tyr Cys Ile Gln Leu Leu Asp
 210 215 220
 Gly Pro Tyr Val Glu Thr Asp Gly Asn Val Val Ala Ala Phe Arg Pro
 225 230 235 240
 Lys Ser Ala Arg Arg Glu Thr Ile Ser
 245 250

<210> 7020

<211> 500

<212> PRT

<213> Enterobacter cloacae

<400> 7020

Val Thr Ala Cys Thr Ile Ser Gly Ser Ala Tyr Ile Phe Thr Leu Ala
 1 5 10 15
 Ser Thr Arg Gly Thr Leu Val Pro Asp Phe Phe Phe Phe Ile Asn Glu
 20 25 30
 Val Leu Trp Gly Ser Ile Met Ile Tyr Leu Leu Ser Gly Ala Gly Ile
 35 40 45
 Trp Phe Thr Trp Arg Ser Gly Leu Ile Gln Phe Arg Tyr Ile Arg Lys
 50 55 60
 Phe Gly Arg Ser Leu Lys Asn Ser Val Thr Pro Gln Pro Gly Gly Leu

65					70					75				80
Thr	Ser	Phe	Gln	Ala	Leu	Cys	Thr	Ser	Leu	Ala	Ala	Arg	Val	Gly Ser
				85					90					95
Gly	Asn	Leu	Ala	Gly	Val	Ala	Leu	Ala	Ile	Gly	Ala	Gly	Gly	Pro Gly
			100					105					110	
Ala	Val	Phe	Trp	Met	Trp	Val	Thr	Ala	Ile	Ile	Gly	Met	Ala	Thr Ser
		115					120					125		
Phe	Ala	Glu	Cys	Ser	Leu	Ala	Gln	Leu	Tyr	Lys	Glu	Lys	Asp	Gly Lys
	130					135					140			
Gly	Gln	Phe	Arg	Gly	Gly	Pro	Ala	Trp	Tyr	Met	Ala	Arg	Gly	Leu Gly
145					150					155				160
Met	Arg	Trp	Met	Gly	Val	Leu	Phe	Ser	Ile	Phe	Leu	Leu	Ile	Ala Tyr
				165					170					175
Gly	Leu	Ile	Phe	Asn	Thr	Val	Gln	Ala	Asn	Ser	Val	Ala	His	Ala Leu
			180					185					190	
Arg	Phe	Ala	Phe	Asn	Cys	Pro	Glu	Trp	Leu	Thr	Gly	Gly	Ala	Leu Ala
		195					200					205		
Leu	Leu	Thr	Leu	Leu	Thr	Ile	Val	Thr	Gly	Leu	Lys	Gly	Val	Ala Arg
	210					215					220			
Leu	Met	Gln	Trp	Leu	Val	Pro	Leu	Met	Ala	Leu	Leu	Trp	Val	Ser Thr
225					230					235				240
Ser	Leu	Met	Val	Cys	Ala	Ile	His	Ile	Asp	Glu	Val	Pro	Asn	Val Ile
				245					250					255
Val	Thr	Ile	Phe	Gln	Ser	Ala	Phe	Gly	Trp	Arg	Glu	Ala	Ala	Ser Gly
			260					265					270	
Ala	Leu	Gly	Tyr	Thr	Leu	Ser	Gln	Ala	Leu	Thr	Ala	Gly	Phe	Gln Arg
		275					280					285		
Gly	Met	Phe	Ser	Asn	Glu	Ala	Gly	Met	Gly	Ser	Thr	Pro	Asn	Ala Ala
	290					295					300			
Ala	Ala	Ala	Ala	Ser	Trp	Pro	Pro	His	Pro	Ala	Ala	Gln	Gly	Ile Val
305					310					315				320
Gln	Met	Ile	Gly	Val	Phe	Thr	Asp	Thr	Ile	Val	Ile	Cys	Ser	Ala Ser
				325					330					335
Ala	Met	Ile	Met	Leu	Leu	Ala	Gly	Ala	Ala	Glu	Gln	Pro	Ser	Gly Ser
			340					345					350	
Thr	Ala	Gly	Ile	His	Trp	Val	Gln	Gln	Ala	Leu	Val	Ser	Leu	Val Gly
		355					360						365	
Gly	Trp	Gly	Ala	Gly	Leu	Val	Ala	Leu	Val	Val	Gly	Leu	Phe	Ala Phe
	370					375					380			
Ser	Ser	Ile	Ala	Val	Asn	Tyr	Met	Tyr	Ala	Glu	Asn	Asn	Leu	Ile Phe
385					390					395				400
Leu	Lys	Val	Asn	Ser	Cys	Leu	Thr	Arg	Asn	Val	Leu	Arg	Ala	Gly Val
			405						410					415
Leu	Gly	Met	Val	Phe	Val	Gly	Ser	Leu	Leu	Gly	Met	Pro	Leu	Val Trp
			420					425					430	
Gln	Ile	Ala	Asp	Val	Ile	Met	Ala	Leu	Met	Ala	Ile	Thr	Asn	Leu Thr
		435					440					445		
Ala	Ile	Leu	Leu	Leu	Ser	Pro	Val	Val	Ala	Leu	Ile	Ala	Arg	Asp Tyr
		450				455					460			
Leu	Arg	Gln	Arg	Lys	Leu	Gly	Val	Gln	Pro	Val	Phe	Asp	Ala	Ser Arg
465					470					475				480
Tyr	Pro	Glu	Ile	Glu	Ser	Gln	Ile	Ala	Pro	Gly	Thr	Trp	Asp	Asp Leu
				485					490					495
Pro	Arg	Gln												

500

<210> 7021

<211> 280

<212> PRT

<213> Enterobacter cloacae

<400> 7021

Gln Leu Ser Ile Asn Ser Gly Arg Phe Phe Val Lys Val Ala Leu Asn
 1 5 10 15
 Phe Leu Gln Gly Leu Asp Met Leu Ile Leu Ile Ser Pro Ala Lys Thr
 20 25 30
 Leu Asp Tyr Gln Ser Pro Leu Ala Thr Glu Arg Tyr Thr Gln Pro Glu
 35 40 45
 Leu Leu Asp Tyr Ser Gln Gln Leu Ile His Glu Ala Arg Lys Leu Ser
 50 55 60
 Ala Pro Gln Ile Ala Ser Leu Met Ser Ile Ser Asp Lys Leu Ala Asp
 65 70 75 80
 Leu Asn Ala Thr Arg Phe His Glu Trp Gln Pro Asp Phe Thr Pro Ala
 85 90 95
 Asn Ala Arg Gln Ala Leu Leu Ala Phe Lys Gly Asp Val Tyr Thr Gly
 100 105 110
 Leu Gln Ala Glu Thr Phe Ser Glu Ala Asp Phe Asp Phe Ala Gln Gln
 115 120 125
 His Leu Arg Met Leu Ser Gly Leu Tyr Gly Val Leu Arg Pro Leu Asp
 130 135 140
 Leu Met Gln Pro Tyr Arg Leu Glu Met Gly Ile Arg Leu Glu Asn Ala
 145 150 155 160
 Lys Gly Lys Asp Leu Tyr Gln Phe Trp Gly Asp Val Ile Thr Asp Lys
 165 170 175
 Leu Asn Ala Ala Leu Gln Ala Gln Gly Asp Asn Val Val Ile Asn Leu
 180 185 190
 Ala Ser Asp Glu Tyr Phe Lys Ser Val Lys Pro Lys Lys Leu Asp Ala
 195 200 205
 Asp Ile Ile Lys Pro Val Phe Leu Asp Glu Lys Asn Gly Lys Phe Lys
 210 215 220
 Val Ile Ser Phe Tyr Ala Lys Lys Ala Arg Gly Leu Met Ser Arg Phe
 225 230 235 240
 Ile Ile Gln Asn Arg Leu Thr Lys Pro Glu Gln Leu Thr Gly Phe Asn
 245 250 255
 Ser Glu Gly Tyr Phe Phe Asp Glu Ala Ser Ser Gly Lys Asn Glu Leu
 260 265 270
 Val Phe Lys Arg His Glu Gln
 275 280

<210> 7022

<211> 188

<212> PRT

<213> Enterobacter cloacae

<400> 7022

His Pro Tyr Cys Leu Phe Asn Val Ser Cys Ala Arg Arg Leu Gly Leu
 1 5 10 15
 Gly Met Thr Thr Asn Leu Leu Ile Leu His Asn Ile Gly Met Phe Pro
 20 25 30
 Met Asp Gly Ile Ile Leu Pro Met Gly Ile Phe Tyr Gly Gly Ile Ala
 35 40 45
 Gln Ile Phe Ala Gly Leu Leu Glu Tyr Lys Lys Gly Asn Thr Phe Gly
 50 55 60
 Leu Thr Ala Phe Thr Ser Tyr Gly Ser Phe Trp Leu Thr Leu Val Ala
 65 70 75 80
 Ile Leu Leu Met Pro Lys Met Gly Leu Ala Glu Ala Ala Asn Ala His
 85 90 95
 Phe Leu Gly Val Tyr Leu Gly Leu Trp Gly Val Phe Thr Leu Phe Met
 100 105 110
 Phe Phe Gly Thr Leu Lys Ala Asn Arg Ala Leu Gln Phe Val Phe Leu
 115 120 125
 Ser Leu Thr Val Leu Phe Ala Leu Leu Ala Ile Gly His Leu Ala Asp

130		135		140	
Asn	Glu	Gly	Ile	Val	His
145		150		155	
Ala	Ser	Ala	Ile	Tyr	Leu
		165		170	
Asp	Arg	Thr	Ile	Leu	Pro
		180		185	

<210> 7023

<211> 302

<212> PRT

<213> Enterobacter cloacae

<400> 7023

Thr	Thr	Leu	Phe	Ala	Ala	Ala	Leu	Ala	Val	Val	Gly	Phe	Cys	Lys	Thr
1			5					10					15		
Ala	Ser	Ala	Val	Thr	Tyr	Pro	Leu	Pro	Thr	Asp	Gly	Ser	Arg	Leu	Val
		20					25					30			
Gly	Glu	Asn	Gln	Val	Val	Thr	Val	Pro	Glu	Gly	Asn	Thr	Gln	Pro	Leu
		35				40					45				
Glu	Tyr	Phe	Ala	Ala	Gln	Tyr	Gln	Leu	Gly	Leu	Ser	Asn	Met	Leu	Glu
	50				55				60						
Ala	Asn	Pro	Gly	Val	Asp	Pro	Tyr	Leu	Pro	Lys	Ala	Gly	Thr	Val	Leu
65				70				75						80	
Asn	Ile	Pro	Gln	Gln	Leu	Ile	Leu	Pro	Asp	Thr	Val	His	Glu	Gly	Ile
			85			90						95			
Val	Ile	Asn	Ser	Ala	Glu	Met	Arg	Leu	Tyr	Tyr	Tyr	Pro	Lys	Gly	Thr
		100					105					110			
Asn	Thr	Val	Ile	Val	Leu	Pro	Ile	Gly	Ile	Gly	Gln	Leu	Gly	Lys	Asp
		115				120					125				
Thr	Pro	Leu	Asn	Trp	Thr	Thr	Lys	Val	Glu	Arg	Lys	Lys	Ala	Gly	Pro
	130				135						140				
Thr	Trp	Thr	Pro	Thr	Ala	Lys	Met	His	Ala	Glu	Tyr	Ile	Ala	Ala	Gly
145				150					155					160	
Glu	Pro	Leu	Pro	Thr	Val	Val	Pro	Ala	Gly	Pro	Asp	Asn	Pro	Met	Gly
			165				170							175	
Leu	Tyr	Ala	Leu	Tyr	Ile	Gly	Arg	Leu	Tyr	Ala	Ile	His	Gly	Thr	Asn
		180				185						190			
Ala	Asn	Phe	Gly	Ile	Gly	Leu	Arg	Val	Ser	His	Gly	Cys	Val	Arg	Leu
	195					200					205				
Arg	Asn	Glu	Asp	Ile	Lys	Phe	Leu	Phe	Asp	Asn	Val	Pro	Val	Gly	Thr
	210				215						220				
Arg	Val	Gln	Phe	Ile	Asn	Glu	Pro	Val	Lys	Ala	Thr	Ser	Glu	Pro	Asp
225				230					235					240	
Gly	Ser	Arg	Tyr	Ile	Glu	Val	His	Asn	Pro	Leu	Ser	Thr	Ser	Glu	Asp
			245					250						255	
Gln	Ile	Asn	Asn	Asn	Glu	Ile	Val	Pro	Ile	Lys	Leu	Thr	Ser	Ala	Val
		260					265					270			
Gln	Ser	Val	Thr	Ser	Gln	Ala	Asp	Val	Asp	Thr	Thr	Ile	Val	Asp	Gln
	275					280						285			
Ala	Ile	Gln	Asn	Arg	Ser	Gly	Met	Pro	Val	Arg	Leu	Asn			
290					295						300				

<210> 7024

<211> 336

<212> PRT

<213> Enterobacter cloacae

<220>

<221> UNSURE

<222> (328)

<400> 7024

Ser Met Asn Val Thr Leu Ile Asp Thr Leu Val Thr Arg Ser Arg Gly
 1 5 10 15
 Leu Ser Pro Trp Thr Gly Phe Tyr Phe Leu Gln Ser Leu Leu Ile Asn
 20 25 30
 Phe Ala Leu Gly Tyr Pro Phe Ser Leu Leu Tyr Ala Val Gly Phe Thr
 35 40 45
 Cys Ile Leu His Leu Leu Trp Arg Ser Ala Pro Arg Met Gln Lys Val
 50 55 60
 Leu Ile Gly Ile Cys Ser Leu Val Ala Ala Tyr Phe Pro Phe Gly
 65 70 75 80
 Gln Ala Tyr Gly Ala Pro Asn Phe Asn Thr Leu Leu Ala Leu His Ser
 85 90 95
 Thr Asn Met Glu Glu Ser Thr Glu Ile Leu Thr Ile Phe Pro Trp Tyr
 100 105 110
 Asn Tyr Val Val Gly Leu Phe Ile Phe Ala Leu Gly Val Ile Ala Val
 115 120 125
 Arg Arg Lys Pro Val Gly Lys Lys Ala Trp Gly Lys Ile Glu Ser Leu
 130 135 140
 Cys Leu Ala Phe Ser Val Val Thr Phe Phe Val Ala Pro Val Gln Asn
 145 150 155 160
 Met Ala Trp Gly Gly Val Phe Lys Leu Lys Asp Thr Gly Tyr Pro Val
 165 170 175
 Phe Arg Phe Val Lys Asp Val Val Val Asn Asn Glu Glu Val Leu Asp
 180 185 190
 Glu Gln Ala Arg Met Ala Glu Leu Ser Thr Met Lys Asp Thr Trp Asn
 195 200 205
 Val Leu Ala Val Lys Pro Lys Tyr His Thr Tyr Val Val Val Ile Gly
 210 215 220
 Glu Ser Ala Arg Arg Asp Ala Leu Gly Ala Phe Gly Gly His Trp Asp
 225 230 235 240
 Asn Thr Pro Phe Ala Ser Ala Val Asn Gly Thr Leu Phe Thr Asp Tyr
 245 250 255
 Val Ala Ala Ser Gly Ser Thr Gln Lys Ser Leu Gly Leu Thr Leu Asn
 260 265 270
 Arg Val Val Asp Gly Lys Pro Gln Phe Gln Asp Asn Phe Val Thr Leu
 275 280 285
 Ala Asn Arg Ala Gly Phe Gln Thr Trp Trp Phe Ser Asn Gln Gly Gln
 290 295 300
 Ile Gly Glu Tyr Asp Thr Ala Ile Ala Ser Ile Lys Lys Arg Ala Asp
 305 310 315 320
 Glu Val His Phe Leu Phe Phe Xaa His Asp Ala Pro Asn Pro Arg Tyr
 325 330 335

<210> 7025

<211> 370

<212> PRT

<213> Enterobacter cloacae

<400> 7025

Met Asn Ile Pro Gly Leu Gln Ala Leu Lys Arg Asp Arg Phe Phe His
 1 5 10 15
 Leu Leu Leu Ile Thr Gly Val Gly Leu Ser Val Phe Val Pro Phe Thr
 20 25 30
 Pro His Thr Trp Pro Ala Ala Ile Asp Trp Arg Thr Ile Ile Thr Leu
 35 40 45
 Ser Gly Leu Met Met Leu Thr Lys Gly Val Glu Leu Ser Gly Tyr Phe
 50 55 60
 Asp Val Leu Gly Arg Lys Met Val Arg Arg Phe Ala Thr Glu Arg Lys
 65 70 75 80

Leu Ala Leu Phe Met Val Phe Ser Ala Ala Leu Leu Ser Thr Phe Leu
 85 90 95
 Thr Asn Asp Val Ala Leu Phe Ile Val Val Pro Leu Thr Leu Thr Leu
 100 105 110
 Arg Lys Leu Cys Glu Ile Pro Val Thr Arg Leu Ile Ile Phe Glu Ala
 115 120 125
 Leu Ala Val Asn Ala Gly Ser Leu Leu Thr Pro Ile Gly Asn Pro Gln
 130 135 140
 Asn Ile Leu Leu Trp Gly Arg Ser Gly Leu Ser Phe Thr Ala Phe Thr
 145 150 155 160
 Gly Gln Met Ala Pro Leu Ala Leu Ala Ile Val Ala Ser Leu Leu Ala
 165 170 175
 Val Gly Trp Phe Ala Phe Pro Asn Lys Ser Leu Gln Tyr His Ser Gly
 180 185 190
 Thr Thr Gly Pro Gln Trp Gln Pro Arg Leu Val Trp Ser Cys Leu Gly
 195 200 205
 Leu Tyr Ile Val Phe Leu Ile Ala Leu Glu Leu Asn Gln Ala Leu Ala
 210 215 220
 Gly Ala Leu Leu Val Ala Cys Gly Phe Leu Phe Leu Ala Arg Arg Val
 225 230 235 240
 Leu Val Ser Val Asp Trp Thr Leu Leu Leu Val Phe Met Ala Met Phe
 245 250 255
 Ile Asp Val His Leu Leu Ile Gln Leu Pro Val Leu Gln Asn Val Leu
 260 265 270
 His Ser Val Gly Gly Leu Ser Gln Pro Gly Leu Trp Leu Thr Ala Ile
 275 280 285
 Gly Leu Ser Gln Val Ile Ser Asn Val Pro Ser Thr Ile Leu Leu Leu
 290 295 300
 Asn Tyr Val Pro Pro Thr Val Leu Leu Ala Trp Ala Val Asn Val Gly
 305 310 315 320
 Gly Phe Gly Leu Leu Pro Gly Ser Leu Ala Asn Leu Ile Ala Leu Arg
 325 330 335
 Met Ala Asn Asp Arg Arg Ile Trp Trp Arg Phe His Leu Trp Ser Ile
 340 345 350
 Pro Met Leu Leu Trp Ser Ala Ala Val Gly Phe Gly Leu Phe Leu Leu
 355 360 365
 Ile
 370

<210> 7026

<211> 517

<212> PRT

<213> Enterobacter cloacae

<400> 7026

Glu Arg Gly Glu Cys Arg Ser Thr Leu Met Ile His Arg Arg Leu His
 1 5 10 15
 Pro Leu Met Ile Met Met Leu Leu Val Gly Cys Ala Val Gly Pro Asp
 20 25 30
 Tyr Gln Gln Pro Ala Pro Pro Ala Thr Thr His Trp Asn Asp Lys Gly
 35 40 45
 Asp Ser Ala Val Lys Ser Gln Thr Ser Ser Ala Ala Thr Asn Pro Arg
 50 55 60
 Trp Trp Lys Thr Phe Gly Ser Pro Gln Leu Asp Ser Leu Ile Glu Arg
 65 70 75 80
 Ala Ile Ala Gly Asn Leu Thr Leu Gln Gln Thr Val Leu Arg Ile Ala
 85 90 95
 Gly Ala Arg Glu Gln Ile Asn Gln Ala Gly Gly Ala Phe Phe Pro Ser
 100 105 110
 Val Asn Gly Asn Val Gln Ala Thr Arg Gln Gln Leu Gly Leu Glu Gly
 115 120 125

Glu Leu Lys Ser His Gly Val Tyr Asp Gln Leu Asn Asn Val Asp Pro
 130 135 140
 Glu Leu Arg Gly Ala Leu Gly Pro Leu Thr Gln Pro Ile Asn Leu Tyr
 145 150 155 160
 Gln Gly Ser Phe Asp Ala Gln Trp Glu Ile Asp Leu Trp Gly Lys Val
 165 170 175
 Arg Arg Gln Val Glu Ala Ala Glu Ala Gln Gln Arg Ala Ala Ile Glu
 180 185 190
 Gln Arg Asn Asp Val Leu Val Ser Leu Glu Ala Glu Val Ala Arg Ala
 195 200 205
 Trp Leu Gln Leu Arg Gly Ala Gln Ser Ile Ile Ala Thr Leu Asn Thr
 210 215 220
 Gln Ile Glu Ser Ala Gln Gln Thr Leu Asp Leu Thr Glu Ser Arg Gln
 225 230 235 240
 Arg Gly Gly Leu Ser Pro Gln Met Asp Val Glu Asn Ala Arg Ala Gln
 245 250 255
 Leu Gly Asn Leu Glu Ala Gln Leu Pro Gln Tyr Gln Ala Gln Glu Arg
 260 265 270
 Gln Ala Met Asn Gly Leu Ala Ile Leu Leu Gly Lys Pro Pro Gly Ala
 275 280 285
 Leu Asp Ala Glu Leu Gln Ser Val Gln Pro Met Pro Ala Leu Pro Asp
 290 295 300
 Ile Val Gln Thr Gly Ile Pro Ser Thr Leu Ala Arg Arg Arg Pro Asp
 305 310 315 320
 Val Arg Glu Ala Glu Ala Asn Leu His Ala Ala Thr Ala Gln Ile Gly
 325 330 335
 Val Ser Val Ala Glu Leu Phe Pro Ser Phe Thr Leu Ser Gly Gln Phe
 340 345 350
 Gly Leu Arg Asn Ser Glu Ser Asn Trp Leu Thr Asp Trp Ser Ser His
 355 360 365
 Phe Tyr Ser Phe Gly Pro Gln Val Ser Ile Pro Ile Phe Gln Gly Gly
 370 375 380
 Arg Leu Val Ser Ser Val Lys Val Ala Arg Ala Gln Gln Gly Ala Ala
 385 390 395 400
 Val Leu Asp Tyr Arg Gln Thr Val Leu Thr Ala Leu Gly Asp Val Glu
 405 410 415
 Asn Ala Leu Val Ser Tyr Arg Thr Asp Gln Gln Arg Glu Ala Gly Leu
 420 425 430
 Ala Lys Thr Ile Asp Ala Leu Gln Asn Ala Phe Asp Leu Ala Ser Asp
 435 440 445
 Ser Tyr Arg Gln Gly Ile Ala Ser Phe Ile Asp Val Leu Asp Ala Gln
 450 455 460
 Arg Gln Leu Ala Gln Ala Glu Gln Gln Arg Ala Gln Ala Gln Val Gln
 465 470 475 480
 Ser Ala Leu Asp Leu Val Ala Leu Tyr Lys Ala Leu Gly Gly Gly Trp
 485 490 495
 Glu Pro Tyr Gln Gln Val Arg Leu Pro Asp Tyr Ser Val Phe Gly Asp
 500 505 510
 Ala Pro Arg Gly
 515

<210> 7027

<211> 242

<212> PRT

<213> Enterobacter cloacae

<400> 7027

Gly Arg Thr Met Ala Ala Lys Tyr Ile Thr Ile Ala Arg Glu Ile Lys
 1 5 10 15
 Lys Arg Ile Ile Ser Gln Gln Tyr Ala Ala Asn Glu Pro Leu Pro Asp
 20 25 30

Gln Phe Ala Leu Ala Ala Glu Phe Ser Thr Ser Arg Met Thr Ile Gln
 35 40 45
 Gln Ala Met Arg Gln Leu Ile Val Glu Gly Leu Val Tyr Thr Arg Gln
 50 55 60
 Gly Gln Gly Thr Phe Ile Arg Lys Asn Phe Leu Gln Leu Ser Gln Trp
 65 70 75 80
 Asp Leu Ser Gly Ser Asp Tyr Phe Gly Ala Thr Lys Thr Trp Glu His
 85 90 95
 Leu Gly Thr Val Ser Ser Gln Val Val His Phe Glu Leu Arg Phe Pro
 100 105 110
 Asn Glu Lys Glu Gln Ala Ser Leu Met Ile Asn Pro Asp Thr Pro Ile
 115 120 125
 Tyr Asp Phe Ile Arg Leu Arg Leu Leu Asn Gly Glu Pro Met Ser Leu
 130 135 140
 Asp Ala Thr Val Met Pro Leu Asn Leu Val Pro Gly Leu Asn Lys Thr
 145 150 155 160
 His Leu Glu Ser Ser Val Phe Arg Tyr Val Gln Glu Thr Leu Gly Leu
 165 170 175
 Lys Ile Met Gly Ser Tyr Arg Val Val Arg Ala Leu Lys Pro Ser Ala
 180 185 190
 Leu Asp Met Gln His Leu Val Cys Glu Pro Thr Asp Ser Val Leu Glu
 195 200 205
 Val Glu Gln Val Ile Tyr Leu Glu Asp Gly Thr Pro Leu Glu Tyr Ala
 210 215 220
 His Cys His Tyr Arg Tyr Asp His Gly Gly Ile Val Ile Val Asn Asn
 225 230 235 240
 Gly

<210> 7028

<211> 161

<212> PRT

<213> Enterobacter cloacae

<400> 7028

Gly Ser Thr Met Asn Arg Arg Ala Gly Lys Pro Thr Thr Lys Lys Thr
 1 5 10 15
 Thr Gln Leu Val Asn Val Glu Glu His Val Glu Gly Phe Arg Gln Val
 20 25 30
 Arg Glu Ala His Arg Arg Glu Leu Ile Asp Asp Tyr Val Glu Leu Ile
 35 40 45
 Ser Asp Leu Ile Arg Glu Val Gly Glu Ala Arg Gln Val Asp Met Ala
 50 55 60
 Ala Arg Leu Gly Val Ser Gln Pro Thr Val Ala Lys Met Leu Lys Arg
 65 70 75 80
 Leu Ala Ser Val Gly Leu Ile Glu Met Ile Pro Trp Arg Gly Val Phe
 85 90 95
 Leu Thr Ala Glu Gly Glu Lys Leu Ala Gln Glu Ser Arg Glu Arg His
 100 105 110
 Gln Ile Val Glu Asn Phe Leu Leu Val Leu Gly Val Ser Pro Glu Ile
 115 120 125
 Ala Arg Arg Asp Ala Glu Gly Met Glu His His Val Ser Glu Glu Thr
 130 135 140
 Leu Val Lys Phe Arg Glu Phe Thr Leu Lys Tyr Gly Pro Ser Ala Glu
 145 150 155 160

<210> 7029

<211> 530

<212> PRT

<213> Enterobacter cloacae

<400> 7029

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Thr Glu Gly His Arg Gly Met Thr Asp His Ser His Asp Asn Trp Lys
1      5      10      15
Pro Ala Ser Asn Pro Trp Ala Val Ala Ile Val Val Thr Leu Ala Val
      20      25      30
Phe Met Glu Ile Leu Asp Thr Thr Ile Val Asn Val Ala Leu Pro His
      35      40      45
Val Ala Gly Ser Leu Ser Ala Ser Tyr Asp Glu Ser Thr Trp Val Leu
      50      55      60
Thr Ser Tyr Leu Val Ala Asn Gly Ile Val Leu Pro Ile Ser Ala Phe
65      70      75      80
Leu Ser Arg Leu Phe Gly Arg Lys Gln Phe Phe Leu Ile Cys Ile Val
      85      90      95
Met Phe Thr Ile Cys Ser Phe Leu Cys Gly Ile Ala Thr Glu Leu Trp
      100     105     110
Gln Ile Ile Leu Phe Arg Val Met Gln Gly Phe Phe Gly Gly Gly Leu
      115     120     125
Gln Pro Thr Gln Gln Ser Val Leu Leu Asp Tyr Phe Lys Pro Glu Asp
      130     135     140
Arg Gly Lys Ala Phe Gly Leu Ser Ser Ile Ala Ile Ile Val Ala Pro
145      150     155     160
Val Leu Gly Pro Thr Leu Gly Gly Trp Ile Thr Asp Asn Tyr Ser Trp
      165     170     175
Arg Trp Val Phe Phe Ile Asn Ile Pro Val Gly Ile Val Thr Val Leu
      180     185     190
Ala Ile Tyr Gln Leu Leu Glu Asp Pro Pro Trp Glu Lys Lys Ser Glu
      195     200     205
Glu Lys Leu Thr Val Asp Trp Thr Gly Ile Gly Leu Ile Ala Leu Gly
210      215     220
Leu Gly Cys Leu Gln Val Met Leu Asp Arg Gly Glu Asp Asp Asp Trp
225      230     235     240
Phe Tyr Ser Asn Phe Ile Arg Thr Phe Ala Val Leu Thr Leu Val Gly
      245     250     255
Ile Ile Gly Ala Ile Tyr Trp Leu Met Tyr Ala Arg Lys Pro Val Val
      260     265     270
Asp Leu His Cys Met Lys Asp Arg Asn Phe Ala Ile Ser Ser Leu Leu
      275     280     285
Met Ala Gly Met Ala Met Ile Leu Tyr Gly Ser Ser Val Val Ile Pro
290      295     300
Gln Leu Ala Gln Gln Asp Leu Gly Tyr Thr Ala Thr Trp Ser Gly Leu
305      310     315     320
Val Leu Ser Pro Gly Ala Val Leu Ile Val Leu Thr Ile Pro Leu Val
      325     330     335
Leu Lys Leu Met Pro Val Val Gln Thr Arg Trp Ile Ile Ala Phe Gly
      340     345     350
Phe Thr Cys Leu Ala Val Ser Phe Phe Trp Ser Arg Thr Leu Thr Pro
      355     360     365
Asp Ile Asp Phe Glu Thr Leu Val Leu Phe Arg Ser Ala Gln Ser Ile
370      375     380
Gly Leu Gly Phe Leu Phe Val Pro Leu Thr Thr Ile Ala Phe Ile Ser
385      390     395     400
Ile Pro Arg Arg Leu Asn Ala Asp Ala Ala Leu Phe Thr Met Phe
      405     410     415
Arg Asn Val Ala Gly Ser Ile Gly Ile Ser Leu Ser Thr Ala Ala Ile
      420     425     430
Thr Glu Arg Ser Gln Ala His Ser Ala His Leu Ala Tyr His Ala Ser
435      440     445
Pro Phe Asn Glu Gln Phe Gln Leu Ala Ile Arg Glu Ser Ala Gln Ala
450      455     460

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Ile Gln Asn Phe Thr Thr Gln Val Gly Asp Pro Thr Gly Ile Ala Thr
 465 470 475 480
 Gly Arg Met Tyr Gln Thr Met Ile Glu Gln Ser Arg Phe Leu Ala Tyr
 485 490 495
 Ile Asp Val Phe Thr Ile Leu Ser Ala Val Ala Leu Leu Leu Ile Pro
 500 505 510
 Phe Cys Leu Leu Leu Ser Pro Val Lys Ser Glu Gly Ser Ala Gly Ala
 515 520 525
 His
 530

<210> 7030

<211> 466

<212> PRT

<213> Enterobacter cloacae

<400> 7030

Leu Val Ile Lys Gly Ala Thr Met Asn Lys Ser Leu Pro Ala Asn Phe
 1 5 10 15
 Leu Trp Gly Asn Ser Val Ser Ser Met Gln Thr Glu Gly Ala Trp Asn
 20 25 30
 Glu Gly Gly Lys Gly Met Ser Val Tyr Asp Ile Arg Glu Ala Gly Glu
 35 40 45
 Asn Ile Ser Asp Trp Lys Val Ala Thr Asp Ser Tyr His Arg Tyr Arg
 50 55 60
 Glu Asp Phe Asp Leu Met Gln Asp Leu Gly Met Asn Cys Tyr Arg Phe
 65 70 75 80
 Gln Ile Ser Trp Ser Arg Ile Cys Pro Gln Gly Asp Gly Glu Phe Asn
 85 90 95
 Asp Glu Gly Ile Ala Phe Tyr Asp Arg Phe Ile Asp Asp Leu Leu Ala
 100 105 110
 Arg Gly Ile Glu Pro Met Val Cys Leu Tyr His Phe Asp Met Pro Leu
 115 120 125
 Ala Leu Ala Gln Glu Tyr Asn Gly Phe Ile Asp Arg Arg Val Val Asp
 130 135 140
 Ala Phe Ile Arg Tyr Gly Lys Lys Met Ile Asp Cys Phe Ala Asp Arg
 145 150 155 160
 Val Lys Tyr Trp Leu Thr Phe Asn Glu Gln Asn Ile Phe His Met Pro
 165 170 175
 Glu Ala Phe Arg Ile Ser Gly Tyr Met Lys Gly Glu Gln Thr Leu Arg
 180 185 190
 Glu Leu Tyr Glu Leu Gln His His Ala Met Val Ala His Met Thr Leu
 195 200 205
 Thr Glu Tyr Leu His Gln Thr Lys Pro Gly Lys Leu Met Gly Gly Met
 210 215 220
 Leu Ala His Gln Leu Ile Tyr Pro Ala Thr Cys Lys Pro Arg Asp Ile
 225 230 235 240
 Phe Cys Ala Gln Gln Tyr Asp Glu Phe Leu Asn Gln Asn Leu Leu Arg
 245 250 255
 Val Phe Ala Gly Gln Gly Tyr Ser Pro Ala Val Met Ala Val Val Glu
 260 265 270
 Gln Glu Gly Phe Gly Asp Ile Tyr Arg Ala Asp Asp Leu Ala Leu Phe
 275 280 285
 Ala Arg Thr Lys Asn Asp Phe Met Ala Phe Ser Tyr Tyr Ala Ser Lys
 290 295 300
 Thr Leu Asp Ser Asp Ala Ile Pro Glu Gly Thr Pro Val Asn Tyr Tyr
 305 310 315 320
 Leu Leu His Gly Glu Lys Asn Asn Pro Tyr Leu Lys Ala Thr Glu Trp
 325 330 335
 Asn Trp Gln Ile Asp Pro Leu Gly Phe Arg Thr Ile Ile Thr Arg Tyr
 340 345 350

Ala Asn Asp Trp Arg Met Pro Val Phe Pro Ile Glu Asn Gly Ile Gly
 355 360 365
 Val Ile Glu Ser Trp Asp Gly Val Asn Pro Val Glu Asp Thr Tyr Arg
 370 375 380
 Ile Asp Tyr His Arg Ala His Ile Glu Ala Met Lys Ala Ala Ile Phe
 385 390 395 400
 Glu Asp Gly Ala Glu Val Met Gly Tyr Leu Gly Trp Gly Leu Ile Asp
 405 410 415
 Ile Leu Ser Ser Gln Gly Asp Met Arg Lys Arg Tyr Gly Val Val Tyr
 420 425 430
 Val Asn Arg Glu Asn His Asp Leu Lys Asp Leu Lys Arg Val Pro Lys
 435 440 445
 Lys Ser Tyr Ala Trp Leu Lys Gln Val Ile His Thr Asn Gly Arg Glu
 450 455 460
 Met
 465

<210> 7031

<211> 446

<212> PRT

<213> Enterobacter cloacae

<400> 7031

Trp Glu His Ser Ala Met Ser Glu Thr Lys Ile Thr Pro His Met Gln
 1 5 10 15
 Ser Phe Val Asp Lys Phe Val Glu Phe Ser Ala Arg Leu Ala Asn Gln
 20 25 30
 Val His Leu Arg Ser Leu Arg Asp Ala Phe Ala Thr Val Met Pro Ile
 35 40 45
 Phe Ile Leu Ala Gly Leu Ala Val Leu Val Asn Asn Val Val Phe Pro
 50 55 60
 Trp Ile Phe Ala Gly Asp Thr Leu Thr His Phe Lys Val Trp Gly Glu
 65 70 75 80
 Ala Ile Ile Asn Gly Thr Leu Asn Ile Ala Ala Leu Leu Leu Ala Pro
 85 90 95
 Met Ile Ala Trp Ser Leu Ala Arg Asn Lys Asp Phe Asp Asn Pro Val
 100 105 110
 Ser Ala Val Val Ile Ala Val Ser Phe Ile Ile Met Met Pro Met
 115 120 125
 Arg Leu Gln Ile Thr Pro Val Gly Ser Glu Ala Thr Val Asn Ala Thr
 130 135 140
 Gln Val Leu Thr Phe Ala Asn Ile Gly Ser Thr Gly Ile Phe Ala Gly
 145 150 155 160
 Val Leu Ile Gly Leu Leu Ser Thr Glu Val Phe Ile Ala Ile Ser Arg
 165 170 175
 Leu Lys Ala Leu His Ile Ser Leu Gly Glu Asn Val Pro Pro Ala Val
 180 185 190
 Ser Lys Ser Phe Thr Ala Leu Ile Pro Thr Ile Leu Thr Leu Ser Leu
 195 200 205
 Phe Ala Val Leu Ala Ala Ile Leu Ala Asn Val Leu His Thr Asp Leu
 210 215 220
 Ile His Leu Ile Thr Thr Phe Ile Gln Gln Pro Leu Arg Leu Ile Asn
 225 230 235 240
 Thr Ser Leu Pro Gly Thr Ile Phe Ile Tyr Ser Phe Gly Asn Phe Leu
 245 250 255
 Phe Thr Leu Gly Ile His Gln Ser Val Val Asn Ser Val Val Leu Glu
 260 265 270
 Pro Phe Leu Leu Ile Asn Thr Asn Glu Asn Met Leu Ala Phe Ala Asn
 275 280 285
 Gly Gln Pro Ile Pro His Ile Ile Asn Asn Ile Phe Val Pro Thr Phe
 290 295 300

Gly Met Val Gly Gly Thr Gly Ser Thr Ile Ser Leu Leu Ile Ala Ile
 305 310 315 320
 Phe Ile Phe Ser Arg Gln Lys Ser Ala Lys Gln Val Ala Arg Leu Ser
 325 330 335
 Leu Ala Pro Gly Leu Phe Asn Ile Asn Glu Pro Val Ile Phe Gly Leu
 340 345 350
 Pro Ile Val Phe Asn Leu Pro Leu Met Ile Pro Phe Val Leu Leu Pro
 355 360 365
 Ala Ile Gly Ile Tyr Phe Ala Trp Leu Cys Thr Thr Leu Gly Phe Met
 370 375 380
 Ser Arg Cys Val Val Met Ile Pro Trp Thr Thr Pro Pro Ile Leu Ser
 385 390 395 400
 Ala Trp Leu Ala Thr Ala Gly Asp Trp Arg Ala Val Val Val Gln Leu
 405 410 415
 Ala Ile Ile Val Phe Gly Val Phe Phe Tyr Leu Pro Phe Leu Lys Val
 420 425 430
 Ala Glu Arg Val Ala Leu Lys Asn Ser Gly Thr Glu His
 435 440 445

<210> 7032

<211> 366

<212> PRT

<213> Enterobacter cloacae

<400> 7032

Thr Met Ala Glu Asp Gln Asn Pro Pro Ala Asp Glu Gln Asp Gln Asn
 1 5 10 15
 Asn Asn Glu Arg Lys Arg Pro Gly Lys Lys Pro Leu Ile Ile Leu Gly
 20 25 30
 Ile Val Val Ile Val Met Val Ile Val Ala Leu Val Trp Trp Phe Leu
 35 40 45
 Thr Arg Asn Glu Glu Thr Thr Asp Asp Ala Phe Thr Asp Gly Asp Val
 50 55 60
 Val Thr Ile Ala Pro Lys Thr Ala Gly Tyr Val Thr Glu Leu Arg Val
 65 70 75 80
 Arg Asp Asn Gln Arg Val Lys Lys Gly Asp Val Leu Val Val Ile Asp
 85 90 95
 Pro Arg Asp Thr Ala Gln Arg Asp Gln Ala Gln Ala Gln Leu Gly
 100 105 110
 Leu Ala Leu Ala Gln Leu His Gln Ala Gln Ala Gln Leu Ala Leu Ser
 115 120 125
 Lys Val Gln Tyr Pro Ala Gln Arg Asp Glu Ala Lys Ala Gln Val Leu
 130 135 140
 Lys Ala Gln Ala Asp Met Ala Asn Ala Gln Ala Glu Tyr Arg Arg Gln
 145 150 155 160
 Arg Gly Val Asp Pro Arg Ala Thr Thr Gln Gln Ser Ile Asp Ala Ala
 165 170 175
 Asn Ala Gln Leu Arg Ser Ala Gln Ala Gly Leu Ala Ser Ala Gln Ala
 180 185 190
 Gln Leu Glu Val Ala Glu Gln Val Gln Leu Gln Ile Arg Gln Gln Glu
 195 200 205
 Thr Asn Val Glu Ala Arg Glu Arg Gln Val Asp Gln Ala Arg Ala Gln
 210 215 220
 Leu Glu Thr Ala Asn Leu Asn Leu Ser Tyr Thr Glu Val Arg Ala Pro
 225 230 235 240
 Phe Asp Gly Phe Val Thr Lys Arg Asn Val Gln Pro Gly Thr Leu Val
 245 250 255
 Gln Ala Gly Thr Ala Leu Phe Ser Leu Val Ser Pro Asn Val Trp Val
 260 265 270
 Val Ala Asn Phe Lys Glu Ser Gln Leu Glu Arg Met Lys Pro Gly Asp
 275 280 285

Lys Val Thr Val Ser Val Asp Ala Trp Pro Asp Met Glu Leu Glu Gly
 290 295 300
 His Ile Asp Ser Ile Gln Gln Gly Ser Gly Ser Arg Phe Ser Ala Phe
 305 310 315 320
 Pro Ser Glu Asn Ala Thr Gly Asn Phe Val Lys Ile Val Gln Arg Val
 325 330 335
 Pro Val Lys Ile Val Ile Asp Lys Gly Leu Asp Pro Asn Lys Pro Leu
 340 345 350
 Pro Leu Gly Leu Ser Val Glu Pro Lys Val Thr Val Glu
 355 360 365

<210> 7033

<211> 354

<212> PRT

<213> Enterobacter cloacae

<400> 7033

Gly Val Ser Cys Ala Asp Ala Ser Thr Ser Lys Asn Gln Asn Phe Ala
 1 5 10 15
 Thr Phe Ile Glu Arg Leu Phe Arg Asp Asn Thr Met Thr Lys Tyr Arg
 20 25 30
 Leu Ser Asn Glu Thr Arg Leu Trp Arg Trp Gln Asp Gly Ser Thr Pro
 35 40 45
 Cys Thr Thr Pro Leu Arg Gln Ile Ile Ala Val Lys Asp Phe Asn Asp
 50 55 60
 Val Thr Ser Gly Thr Lys Gly Gly Trp Val Glu Asp Glu His Ala Leu
 65 70 75 80
 Ala Gln Asp Gly Asp Cys Trp Val Tyr Asp Glu Asn Ser Val Val Phe
 85 90 95
 Ala Gly Ala Arg Ile Ser Gly Asn Ala Arg Leu Thr Gln Pro Cys Ile
 100 105 110
 Val Ser His Arg Ala His Val Gly Gly Asn Gly Trp Leu Asp Ala Ala
 115 120 125
 Glu Val Ser His Gly Ala Val Ile Ser Asp Asn Val Thr Ile Gln His
 130 135 140
 Ser Thr Val Arg Gly Glu Cys Arg Ile Ala Gly Asp Ala Arg Val Leu
 145 150 155 160
 His Asn Ser Leu Val Ile Ala Ala Lys Gly Leu Thr Pro Asp Arg Glu
 165 170 175
 Gln Ile Leu Gln Ile Tyr Asp Arg Ala Thr Val Ser Gln Ser Arg Ile
 180 185 190
 Val His Gln Ala Gln Ile Tyr Gly Asp Ala Met Val Thr Trp Ala Phe
 195 200 205
 Val Glu His Arg Ala Glu Val Phe Asp Arg Ala Ile Leu Glu Gly Asn
 210 215 220
 Ala Leu Asn Asn Val Trp Val Cys Asp Cys Ala Lys Val Tyr Gly Asn
 225 230 235 240
 Ala Arg Leu Leu Ala Gly Leu Glu Asp Asp Ala Ile Pro Thr Val Arg
 245 250 255
 Tyr Ser Ser Gln Val Ala Glu Asn Ala Leu Val Glu Gly Asn Cys Val
 260 265 270
 Ile Lys His His Val Leu Ile Gly Gly Glu Ala Trp Leu Arg Gly Gly
 275 280 285
 Pro Ile Leu Ile Asp Asp Lys Val Val Ile Gln Gly Arg Ala Arg Ile
 290 295 300
 Ser Gly Asp Val Leu Ile Glu His Gln Val Glu Ile Thr Asp Asp Ala
 305 310 315 320
 Val Ile Glu Ala Leu Glu Gly Glu Ser Ile His Val Arg Gly Ala Lys
 325 330 335
 Val Ile Asn Gly Asp Thr Arg Ile Thr Arg Thr Pro Leu Leu Gly Ala
 340 345 350

Leu

<210> 7034

<211> 418

<212> PRT

<213> Enterobacter cloacae

<400> 7034

Lys	Ile	Asn	Thr	Glu	Gly	Asn	Thr	Met	Gly	Ser	Glu	Leu	Ser	Arg	Gln	1	5	10	15
Leu	Thr	Gln	Arg	Phe	Phe	Arg	Tyr	Leu	Ala	Ile	Thr	Ser	Gln	Ser	Asp	20	25	30	
Pro	Lys	Val	Lys	Thr	Leu	Pro	Ser	Thr	Pro	Gly	Gln	His	Asp	Met	Ala	35	40	45	
Arg	Glu	Leu	Ala	Lys	Glu	Leu	Lys	Thr	Leu	Gly	Leu	Asp	Asp	Ile	Val	50	55	60	
Ile	Asp	Glu	Phe	Ala	Thr	Val	Thr	Ala	Val	Lys	Lys	Gly	Asn	Val	Pro	65	70	75	80
Gly	Ala	Pro	Arg	Ile	Gly	Phe	Ile	Thr	His	Ile	Asp	Thr	Val	Asp	Val	85	90	95	
Gly	Leu	Ser	Pro	Asp	Ile	His	Pro	Gln	Ile	Leu	Thr	Phe	Thr	Gly	Asp	100	105	110	
Asp	Leu	Cys	Leu	Asn	Lys	Glu	Lys	Asp	Ile	Trp	Leu	Arg	Val	Lys	Glu	115	120	125	
His	Pro	Glu	Ile	Leu	Ala	Tyr	Pro	Asp	Glu	Glu	Ile	Ile	Phe	Ser	Asp	130	135	140	
Gly	Thr	Ser	Val	Leu	Gly	Ala	Asp	Asn	Lys	Ala	Ala	Val	Thr	Val	Val	145	150	155	160
Met	Thr	Val	Leu	Glu	Asn	Leu	Thr	Ala	Glu	His	Asn	His	Gly	Asp	Ile	165	170	175	
Val	Val	Ala	Phe	Val	Pro	Asp	Glu	Glu	Ile	Gly	Leu	Cys	Gly	Ala	Lys	180	185	190	
Ala	Leu	Asp	Leu	Lys	Arg	Phe	Asp	Val	Asp	Phe	Ala	Trp	Thr	Ile	Asp	195	200	205	
Cys	Cys	Glu	Leu	Gly	Glu	Ile	Val	Tyr	Glu	Asn	Phe	Asn	Ala	Ala	Ala	210	215	220	
Ala	Glu	Ile	Arg	Phe	Thr	Gly	Val	Thr	Ala	His	Pro	Met	Ser	Ala	Lys	225	230	235	240
Gly	Val	Leu	Val	Asn	Pro	Leu	Leu	Met	Ala	Thr	Asp	Phe	Ile	Ser	His	245	250	255	
Phe	Asp	Arg	Gln	Gln	Thr	Pro	Glu	Cys	Thr	Glu	Gly	Arg	Glu	Gly	Tyr	260	265	270	
Ile	Trp	Phe	Asn	Gly	Ile	Gln	Ala	Gly	Gln	Asn	Glu	Ala	Ile	Leu	Lys	275	280	285	
Ala	Asn	Ile	Arg	Asp	Phe	Asp	Lys	Asp	Gly	Phe	Ala	Ala	Arg	Lys	Gln	290	295	300	
His	Ile	Ala	Asp	Val	Ala	Ala	Gln	Ile	Ala	Ala	Gln	His	Pro	Thr	Ala	305	310	315	320
Asn	Val	Glu	Tyr	Arg	Ile	Glu	Asp	Thr	Tyr	Ser	Asn	Ile	Ser	Asn	Ala	325	330	335	
Ile	Gly	Glu	Asp	Arg	Arg	Ala	Ile	Asp	Leu	Met	Phe	Glu	Ala	Met	Glu	340	345	350	
Ser	Leu	Gly	Ile	Thr	Pro	Lys	Pro	Ile	Pro	Met	Arg	Gly	Gly	Thr	Asp	355	360	365	
Gly	Ala	Ala	Leu	Ser	Ala	Lys	Gly	Leu	Leu	Thr	Pro	Asn	Phe	Phe	Thr	370	375	380	
Gly	Ala	His	Asn	Phe	His	Ser	Lys	Phe	Glu	Phe	Leu	Pro	Leu	Ser	Ser	385	390	395	400
Phe	Glu	Ala	Ser	Cys	Arg	Thr	Ala	Leu	Gln	Leu	Cys	Leu	Leu	Ala	Ala	405	410	415	

Arg

<210> 7035

<211> 282

<212> PRT

<213> Enterobacter cloacae

<400> 7035

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Asp Met Ser Arg Arg Ser Phe Pro Leu Asn Ala Val Glu Thr Phe Ile
1          5          10          15
Val Thr Ala Arg His Leu Asn Leu Thr His Ala Ala Lys Glu Leu Cys
20          25          30
Leu Thr Gln Gly Ala Val Ser Arg Lys Ile Ala Ser Leu Glu Ser Trp
35          40          45
Phe Gly Phe Pro Leu Phe Glu Arg His Ala Arg Gly Leu Arg Leu Ser
50          55          60
Ser Gln Gly Ser Ala Leu Leu Pro Glu Leu Gln Ser Ala Phe Glu His
65          70          75          80
Leu Leu Asn Val Ala Glu Gln Ala Arg Thr His Gln Thr Val Ile Arg
85          90          95
Leu Lys Ala Pro Thr Cys Ala Met Arg Trp Leu Val Pro Arg Leu Leu
100         105         110
Gln Val Glu Arg Glu Gln Pro Glu Leu Gln Ile Ala Leu Thr Thr Thr
115         120         125
Thr Asp His Asn Val Asn Phe Lys Thr Glu Ser Cys Asp Ala Ala Ile
130         135         140
Val Phe Gly Thr His Met Ser Ala Gly Asp Leu Phe Glu Glu Ala
145         150         155         160
Leu Thr Pro Val Met Ser Pro Leu Arg Ala Gly Ser Ala Leu Glu Ala
165         170         175
Leu Thr Phe Leu His Pro Thr Arg Asp Lys Thr Asp Trp Thr Leu Trp
180         185         190
Leu Ala Lys Gln Pro Gly Pro Pro Pro Ala Met Leu Lys Asn Gln His
195         200         205
Phe Glu Thr Met Asp Leu Ala Ile Thr Ala Ala Ile Gln Gly Leu Gly
210         215         220
Ile Ala Ile Ala Asp Glu Thr Leu Val Glu Glu Asp Val Arg Ala Gly
225         230         235         240
Arg Leu Met Arg Pro Phe Asp Thr Ser Ile Lys Thr Gly Ala Ser Tyr
245         250         255
Arg Leu Val Leu Arg Asp Ala Pro Gly Pro Glu Asn Gly Leu Asp Ala
260         265         270
Phe Arg Ala Cys Leu Leu Ser Arg Gly
275         280

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<210> 7036

<211> 508

<212> PRT

<213> Enterobacter cloacae

<400> 7036

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Trp Lys Lys Lys Val Gly Met Glu Asn Pro Ser Ala Pro Val Val Glu
1          5          10          15
Thr Arg Gln Gly Ala Leu Ile Gly Phe Thr Glu Gly Asp Thr His Val
20          25          30
Trp Cys Gly Ile Pro Tyr Ala Ala Pro Pro Val Gly Pro Trp Arg Trp
35          40          45
Arg Ser Pro Arg Pro Pro Ala Arg Trp Asp Gly Val Arg Pro Ala Thr
50          55          60
Ala Phe Ser Ala Ser Ser Trp Gln Ser Ser Glu Ser Cys Gln Glu Leu

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65					70					75				80	
Gly	Gly	Gly	Asp	Pro	Gly	Gln	Phe	Ser	Glu	Asp	Cys	Leu	Tyr	Leu	Asn
				85					90					95	
Val	Trp	Ser	Pro	Val	Ala	Arg	Ala	Ala	Pro	Leu	Pro	Val	Met	Val	Trp
			100					105					110		
Leu	His	Gly	Gly	Gly	Phe	Thr	Leu	Gly	Ala	Gly	Gly	Leu	Pro	Pro	Tyr
		115					120					125			
Asn	Gly	Arg	Ala	Leu	Ala	Lys	Arg	Gly	Thr	Val	Val	Val	Thr	Ile	Asn
	130					135					140				
Tyr	Arg	Leu	Gly	His	Leu	Gly	Phe	Phe	Ala	His	Pro	Ala	Leu	Glu	Gly
145					150					155					160
Glu	Glu	Glu	Arg	Val	Val	His	Asn	Phe	Ala	Leu	Leu	Asp	Gln	Ile	Gln
			165						170					175	
Ala	Leu	Glu	Trp	Val	Arg	Asp	Asn	Ile	Ala	Ala	Phe	Gly	Gly	Asp	Pro
			180					185					190		
Glu	Asn	Ile	Thr	Val	Phe	Gly	Glu	Ser	Ala	Gly	Ala	Arg	Ser	Val	Leu
	195						200					205			
Ser	Leu	Met	Ala	Ser	Pro	Leu	Ala	Gly	Gly	Leu	Phe	His	Lys	Ala	Ile
	210					215					220				
Val	Gln	Ser	Gly	Tyr	Thr	Leu	Pro	Asp	Thr	Pro	Arg	Glu	Gln	Ala	Met
225					230					235					240
His	Lys	Gly	Glu	Ala	Ile	Ala	Ala	His	Phe	Gly	Leu	His	Asn	Ala	Thr
			245						250					255	
Ala	Glu	Gln	Leu	Arg	Ala	Ile	Pro	Pro	Glu	Ala	Phe	Trp	Pro	Leu	Thr
			260					265					270		
Ser	Pro	Leu	Asn	Ile	Ala	Pro	Ala	Pro	Ile	Val	Gly	Asp	Cys	Val	Leu
	275					280						285			
Pro	Glu	Ala	Met	Leu	Asp	Val	Phe	Phe	Ala	Ala	Arg	Gln	His	Pro	Val
	290					295					300				
Pro	Val	Met	Ile	Gly	Ser	Asn	Ser	Asp	Glu	Ala	Ser	Val	Met	Ser	Val
305					310					315					320
Phe	Gly	Val	Asp	Leu	Ala	Gly	Gln	Ile	Gln	Lys	Leu	Arg	Arg	Glu	Arg
			325						330					335	
Arg	Phe	Gly	Leu	Gly	Leu	Ile	Lys	Leu	Leu	Tyr	Pro	Gly	Val	Lys	Gly
			340					345					350		
Asp	Glu	Glu	Leu	Gly	Arg	Gln	Val	Cys	Arg	Asp	Met	Ala	Phe	Thr	Thr
	355						360				365				
Met	Gly	Tyr	Val	Val	Met	Gln	Ala	Gln	Gln	Arg	Ala	Gly	Gly	Leu	Cys
	370					375					380				
Trp	Arg	Tyr	Trp	Phe	Asp	Tyr	Val	Ala	Glu	Ala	Glu	His	Ala	Thr	Tyr
385					390					395					400
Ile	Asn	Gly	Ala	Trp	His	Gly	Asn	Glu	Val	Pro	Tyr	Val	Phe	Asp	Thr
			405						410					415	
Leu	Gly	Gln	Val	Glu	Pro	Ser	Arg	Gln	Tyr	Val	Asn	Glu	Arg	Asp	Leu
			420					425					430		
Ala	Phe	Ala	Ala	Gln	Val	Ala	Asp	Tyr	Trp	Val	Ser	Phe	Ala	Arg	Asp
	435						440					445			
Ala	Gly	Ala	Arg	Asp	Ser	Leu	Ala	Gly	Pro	Thr	Arg	Trp	Pro	Ala	Cys
	450					455					460				
Arg	Lys	Gly	Arg	Asp	Val	Leu	Leu	Arg	Ile	Gly	Val	Asn	Lys	His	Ala
465					470					475					480
Gly	Phe	Arg	Leu	Glu	Asn	Arg	Phe	Met	Arg	Ala	Arg	Met	Ser	Leu	Phe
			485						490					495	
Lys	Arg	Val	Met	Lys	His	His	Val	Ser	Leu	Asp					
			500					505							

<210> 7037

<211> 400

<212> PRT

<213> Enterobacter cloacae

<400> 7037

Leu Cys Ile His His Glu Lys Gly Gln Arg Met Thr Leu Lys Thr Pro
 1 5 10 15
 Val Gln Thr Arg Ser Lys Leu Pro Asp Val Gly Thr Thr Ile Phe Thr
 20 25 30
 Val Ile Gly Gln Leu Ser Ala Arg His Asn Ala Ile Asn Leu Ser Gln
 35 40 45
 Gly Ala Pro Asn Phe Ser Cys Asp Pro Lys Leu Ile Ser Gly Val Thr
 50 55 60
 Arg Ala Met Glu Ala Gly Tyr Asn Gln Tyr Ala Ser Met Thr Gly Leu
 65 70 75 80
 Gln Pro Leu Arg Glu Arg Ile Ala Asp Lys Ile Ala Thr Leu Tyr Gly
 85 90 95
 Thr His Tyr Asp Pro Ala Ser Glu Val Leu Val Thr Ala Ser Ala Ser
 100 105 110
 Glu Gly Leu Tyr Ser Ala Ile Ser Gly Leu Val His Pro Gly Asp Glu
 115 120 125
 Val Ile Tyr Phe Glu Pro Ser Phe Asp Ser Tyr Ala Pro Ile Val Arg
 130 135 140
 Leu Gln Gly Ala Thr Pro Ile Ala Ile Lys Leu Thr Val Pro Asp Phe
 145 150 155 160
 Ala Val Asn Trp Asp Glu Val Arg Ala Ala Ile Thr Pro Arg Thr Arg
 165 170 175
 Met Ile Ile Val Asn Thr Pro His Asn Pro Ser Gly Gln Val Phe Ser
 180 185 190
 Ala Ala Asp Leu His Gln Leu Ala Ala Leu Thr Arg His Thr Asp Ile
 195 200 205
 Ile Ile Leu Ser Asp Glu Val Tyr Glu His Val Val Phe Asp Gly Glu
 210 215 220
 Pro His His Gly Met Ala Thr His Pro Gln Leu Ala Glu Arg Ser Val
 225 230 235 240
 Ile Ile Ser Ser Phe Gly Lys Thr Tyr His Val Thr Gly Trp Arg Val
 245 250 255
 Gly Tyr Cys Val Ala Pro Ala Glu Leu Met Asp Glu Ile Cys Lys Val
 260 265 270
 His Gln Phe Leu Met Phe Ser Ala Asp Thr Pro Met Gln Tyr Ala Phe
 275 280 285
 Ala Glu His Met Thr Asp Pro Gln Thr Trp Leu Ser Leu Ala Ala Phe
 290 295 300
 Tyr Gln Arg Lys Arg Asp Leu Leu Gln Ser Leu Leu Ala Asp Ser Pro
 305 310 315 320
 Phe Arg Leu Leu Pro Ser Ala Gly Ser Phe Phe Leu Leu Ala Asp Tyr
 325 330 335
 Ser Gly Phe Ser Asp Glu Arg Asp Ser Glu Met Val Lys Arg Leu Ile
 340 345 350
 Val Glu Tyr Gly Val Ala Thr Ile Pro Leu Ser Ala Phe Tyr Ala Asp
 355 360 365
 Gly Thr Asp Asn Lys Leu Ile Arg Leu Ser Phe Ala Lys Asp Glu Ala
 370 375 380
 Thr Leu Arg Ala Gly Ala Gln Ala Leu Cys Arg Val Thr Pro Arg
 385 390 395 400

<210> 7038

<211> 582

<212> PRT

<213> Enterobacter cloacae

<400> 7038

Pro Phe Leu Phe Arg Leu Cys Val Leu Ser Cys Arg His Phe Ala Ala
 1 5 10 15
 Arg Glu Thr His Ser His Asp His Lys Asp Val Phe Ser Gly Met Asn

			20					25					30			
Arg	Arg	Arg	Phe	Leu	Lys	Gly	Ser	Leu	Ala	Met	Ala	Ala	Leu	Ser	Gly	
		35					40					45				
Thr	Ser	Gly	Leu	Ala	Ser	Leu	Phe	Ser	Gln	Ala	Ala	Tyr	Ala	Ala	Asp	
	50					55					60					
Ser	Asp	Ile	Ala	Asp	Gly	Gln	Ser	Arg	Arg	Phe	Asp	Phe	Ser	Val	Leu	
65					70					75					80	
Gln	Ser	Met	Ala	His	Asp	Leu	Ala	Lys	Thr	Ala	Trp	Gly	Gly	Ala	Pro	
				85					90					95		
Arg	Pro	Leu	Pro	Glu	Thr	Leu	Ala	Thr	Met	Thr	Pro	Gln	Ala	Tyr	Asn	
			100					105					110			
Ala	Ile	Arg	Tyr	Asp	Glu	Lys	Gln	Ser	Leu	Trp	Asn	Asn	Ile	Glu	Gly	
	115						120					125				
Arg	Gln	Leu	Asp	Ala	Gln	Phe	Phe	His	Met	Gly	Met	Gly	Phe	Arg	Arg	
	130					135					140					
Arg	Val	Arg	Met	Phe	Ser	Leu	Asp	Gln	Thr	Thr	Ser	Gln	Ala	Arg	Glu	
145					150						155				160	
Ile	His	Phe	Arg	Pro	Glu	Leu	Phe	Ser	Tyr	Gly	Asp	Thr	Gly	Val	Asp	
				165					170					175		
Thr	Lys	Gln	Leu	Glu	Gly	Gln	Ser	Asp	Leu	Gly	Phe	Ala	Gly	Phe	Arg	
			180					185					190			
Val	Phe	Lys	Ala	Pro	Glu	Leu	Ala	Arg	Arg	Asp	Ile	Val	Ser	Phe	Leu	
		195					200					205				
Gly	Ala	Ser	Tyr	Phe	Arg	Ala	Val	Asp	Asp	Thr	Tyr	Gln	Tyr	Gly	Leu	
	210					215					220					
Ser	Ala	Arg	Gly	Leu	Ala	Val	Asp	Thr	Phe	Thr	Asp	Thr	Pro	Glu	Glu	
225					230						235				240	
Phe	Pro	Asp	Phe	Thr	Ser	Phe	Trp	Phe	Glu	Thr	Val	Lys	Pro	Gly	Asp	
				245					250					255		
Thr	Thr	Phe	Thr	Val	Tyr	Ala	Leu	Leu	Asp	Ser	Pro	Ser	Ile	Thr	Gly	
			260					265					270			
Ala	Tyr	Lys	Phe	Val	Ile	His	Cys	Glu	Lys	Ser	Gln	Val	Ile	Met	Asp	
		275					280					285				
Val	Glu	Asn	His	Leu	Tyr	Ala	Arg	Lys	Asp	Ile	Lys	Gln	Leu	Gly	Ile	
	290					295					300					
Ala	Pro	Met	Thr	Ser	Met	Phe	Ser	Cys	Gly	Asn	Asn	Glu	Arg	Arg	Met	
305					310						315				320	
Cys	Asp	Thr	Ile	His	Pro	Gln	Ile	His	Asp	Ser	Asp	Arg	Leu	Ala	Met	
				325					330					335		
Trp	Arg	Gly	Asn	Gly	Glu	Trp	Ile	Cys	Arg	Pro	Leu	Asn	Asn	Pro	Gln	
			340					345					350			
Lys	Leu	Gln	Phe	Asn	Ala	Tyr	Leu	Asp	Lys	Asn	Pro	Lys	Gly	Phe	Gly	
		355					360					365				
Leu	Leu	Gln	Leu	Asp	Arg	Asp	Phe	Ser	His	Tyr	Gln	Asp	Val	Met	Gly	
	370					375				</						

Ala Lys Gln Val Glu Ile Leu Tyr Val Glu Pro Phe Asp Gly Tyr Arg
 515 520 525
 Ile Leu Phe Asp Trp Tyr Pro Thr Ser Asp Ser Thr Glu Pro Val Asp
 530 535 540
 Met Arg Leu Phe Leu Arg Cys Gln Gly Asp Ala Ile Ser Glu Thr Trp
 545 550 555 560
 Leu Tyr Gln Tyr Phe Pro Pro Ala Pro Asp Lys Arg Asn Tyr Val Asp
 565 570 575
 Asp Arg Ile Met Arg
 580

<210> 7039

<211> 215

<212> PRT

<213> Enterobacter cloacae

<400> 7039

Ser Leu Trp Val Cys Ala Gly Trp Arg Leu Arg Leu Thr Arg Pro Ala
 1 5 10 15
 Leu Asp Ala Phe Val Gly Arg Val Ser Val Ser Ala Thr Arg Gln Leu
 20 25 30
 Arg Gly Thr Met Ser Ser Glu Ile Ile Pro Val Asn Gln Glu Ile Glu
 35 40 45
 Leu Arg Ala Val Glu Glu Arg Tyr Thr Thr Asp Leu His Asn Leu Val
 50 55 60
 Ile Lys Asn Lys Thr Trp Leu Gln Thr Ala Phe Asp Trp Ala Gln His
 65 70 75 80
 Val Gly Ser Glu Glu Asp Thr Arg Arg Asn Val Gln Ser Asn Gln Met
 85 90 95
 Leu His Gln Arg Gly Tyr Ala Lys Met Phe Leu Ile Phe Met Lys Asp
 100 105 110
 Glu Leu Val Gly Val Leu Ser Phe Asn Ala Ile Glu Pro Ala Asn Lys
 115 120 125
 Thr Gly Tyr Ile Gly Tyr Trp Leu Asp Glu Ala His Gln Gly Gln Gly
 130 135 140
 Ile Leu Ser Gln Ala Leu Gln Ala Phe Met Arg Tyr Tyr Val Glu Arg
 145 150 155 160
 Gly Glu Ile Arg Arg Phe Val Ile Lys Cys Arg Val Asp Asn Gln Ser
 165 170 175
 Ser Asn Arg Val Ala Gln Arg Asn Gly Phe Thr Leu Glu Gly Cys Leu
 180 185 190
 Arg Lys Ala Glu Met Leu Asn Gly Arg Tyr Asp Asp Val Asn Leu Tyr
 195 200 205
 Ala Arg Ile Phe Pro Leu
 210 215

<210> 7040

<211> 201

<212> PRT

<213> Enterobacter cloacae

<400> 7040

Gly Lys Ile Met Thr Val Asp Glu Asn Tyr Phe Thr Glu Lys Tyr Gly
 1 5 10 15
 Leu Thr Arg Thr His Ser Glu Val Leu Leu Ser Ala Asp Ile Val Lys
 20 25 30
 Pro Gly Lys Thr Leu Asp Leu Gly Cys Gly Asn Gly Arg Asn Ser Leu
 35 40 45
 Tyr Leu Ala Ala Asn Gly His Asp Val Thr Ala Trp Asp Lys Asn Pro
 50 55 60
 Met Ser Ile Asp Asn Ile Glu Arg Ile Lys Ala Ala Glu Gly Ile Ala

65				70				75				80			
Asn	Leu	Gln	Thr	Ala	Ile	Lys	Asp	Leu	Asn	Leu	Thr	Phe	Asp	Gly	
				85				90					95		
Glu	Tyr	Asp	Phe	Ile	Leu	Ser	Thr	Val	Val	Leu	Met	Phe	Leu	Glu	Ala
			100					105					110		
Asn	Thr	Ile	Pro	Gly	Leu	Ile	Ala	Asn	Met	Gln	Arg	Cys	Thr	Lys	Pro
			115					120					125		
Gly	Gly	Tyr	Asn	Leu	Ile	Val	Ala	Ala	Met	Asp	Thr	Glu	Asp	Tyr	Pro
			130				135					140			
Cys	Thr	Val	Gly	Phe	Pro	Phe	Ala	Phe	Lys	Pro	Gly	Glu	Leu	Ser	Asn
145					150					155					160
Tyr	Tyr	Glu	Gly	Trp	Glu	Leu	Ile	Lys	Tyr	Asn	Glu	Glu	Val	Gly	Glu
				165					170					175	
Leu	His	Arg	Thr	Asp	Ala	Asn	Gly	Asn	Arg	Ile	Lys	Leu	Arg	Phe	Ala
			180					185						190	
Thr	Met	Leu	Ala	Arg	Lys	Pro	Ala								
		195					200								

<210> 7041

<211> 287

<212> PRT

<213> Enterobacter cloacae

<400> 7041

Ser	Val	Ser	Leu	Leu	Arg	Lys	Met	Arg	Arg	Arg	Tyr	Gly	Gln	Val	Pro
1			5					10					15		
Arg	Pro	Phe	Val	Gly	Leu	His	His	Val	Lys	Glu	Phe	Glu	Met	Lys	Leu
			20					25					30		
Arg	Ala	Leu	Val	Val	Gly	Met	Gly	Leu	Leu	Cys	Ser	Phe	Ser	Ser	Phe
		35				40					45				
Ala	Ala	Thr	Glu	Leu	Arg	Tyr	Gly	Leu	Glu	Ala	Glu	Tyr	Pro	Pro	Phe
		50				55					60				
Glu	Ser	Arg	Asn	Ala	Ser	Gly	Glu	Leu	Glu	Gly	Phe	Asp	Val	Glu	Leu
65				70				75						80	
Gly	Asn	Ala	Ile	Cys	Lys	Ala	Ala	Ala	Leu	Lys	Cys	Ser	Trp	Val	Glu
			85					90						95	
Thr	Ser	Phe	Asp	Ala	Leu	Ile	Pro	Gly	Leu	Val	Ala	Lys	Lys	Phe	Asp
			100					105						110	
Ala	Ile	Asn	Ser	Ala	Met	Asn	Ile	Thr	Glu	Gln	Arg	Arg	Lys	Ser	Ile
		115					120					125			
Asp	Phe	Thr	Gln	Pro	Ile	Tyr	Arg	Ile	Pro	Ser	Gln	Leu	Val	Gly	Lys
		130				135					140				
Ala	Gly	Ser	Ala	Val	Glu	Ala	Thr	Pro	Glu	Gly	Leu	Lys	Gly	Lys	Thr
145				150					155					160	
Ile	Gly	Val	Leu	Gln	Gly	Ser	Ile	Gln	Glu	Thr	Tyr	Ala	Lys	Glu	His
			165					170						175	
Trp	Glu	Lys	His	Gly	Val	Thr	Val	Val	Ser	Tyr	Lys	Asp	Gln	Asn	Met
			180					185					190		
Ala	Trp	Gly	Asp	Leu	Leu	Asn	Gly	Arg	Ile	Asp	Ala	Ser	Leu	Val	Met
		195				200					205				
Ser	Ala	Ala	Gly	Gln	Ala	Gly	Phe	Leu	Ser	Lys	Pro	Gln	Gly	Lys	Gly
		210				215					220				
Phe	Gly	Phe	Ile	Gly	Lys	Pro	Val	Ser	Asp	Asp	Thr	Ile	Leu	Gly	Ser
225				230					235					240	
Gly	Ile	Gly	Phe	Gly	Leu	Arg	Lys	Gly	Asp	Glu	Ala	Thr	Lys	Lys	Gln
			245					250						255	
Leu	Asp	Ala	Ala	Ile	Asp	Lys	Val	Arg	Ala	Asp	Gly	Thr	Ile	Ala	Lys
		260						265					270		
Leu	Ala	Asp	Lys	Tyr	Phe	Pro	Gly	Ile	Asp	Val	Ser	Val	Lys		
		275					280						285		

<210> 7042
 <211> 336
 <212> PRT
 <213> Enterobacter cloacae

<400> 7042

```

Pro Leu Lys Lys Met His Asn Leu Asn Gln Arg Val Leu Asn Leu Pro
1      5      10      15
Ala Gly Tyr Phe Gly Met Val Leu Gly Thr Ile Gly Met Gly Phe Ala
20      25      30
Trp Arg Tyr Ala Ser Thr Ile Trp Pro Val Thr Arg Trp Pro Gly Glu
35      40      45
Ile Leu Val Ala Leu Ala Val Ala Ile Trp Phe Leu Leu Ser Val Ala
50      55      60
Phe Leu Thr Arg Ala Val Arg Phe Pro His Ser Val Leu Ala Glu Met
65      70      75      80
Arg His Pro Val Met Ser Ser Phe Val Ser Leu Phe Pro Ala Thr Thr
85      90      95
Leu Leu Val Ala Ile Gly Phe Val Pro Trp Tyr Arg Pro Val Ala Leu
100     105     110
Gly Leu Phe Ser Val Gly Val Val Ile Gln Leu Ala Tyr Ala Ala Trp
115     120     125
Gln Ser Ala Gly Leu Trp Arg Gly Lys His Pro Glu Glu Ala Thr Thr
130     135     140
Pro Gly Leu Tyr Leu Pro Thr Val Ala Asn Asn Phe Ile Ser Ala Met
145     150     155     160
Ala Cys Gly Ala Leu Gly Phe His Asp Ala Gly Leu Val Phe Leu Gly
165     170     175
Ala Gly Val Phe Ser Trp Leu Ser Leu Glu Pro Val Ile Leu Gln Arg
180     185     190
Leu Arg Ser Ala Gly Glu Leu Pro Ala Ala Leu Arg Thr Ser Leu Gly
195     200     205
Ile Gln Leu Ala Pro Ala Leu Val Ala Cys Ser Ala Trp Phe Ser Val
210     215     220
Asn Gly Gly Glu Ala Asp Thr Phe Ala Lys Met Leu Phe Gly Tyr Gly
225     230     235     240
Leu Leu Gln Leu Leu Phe Met Leu Arg Leu Met Pro Trp Tyr Leu Ser
245     250     255
Gln Pro Phe Asn Ala Ser Phe Trp Ser Phe Ser Phe Gly Val Ser Ala
260     265     270
Leu Ala Thr Thr Gly Leu His Leu Gly Gln Ser Ser Pro Ser Gly Phe
275     280     285
Phe His Ala Leu Ala Val Pro Leu Phe Ile Phe Thr Asn Val Ile Ile
290     295     300
Ala Met Leu Leu Val Arg Thr Phe Ile Leu Leu Met Gln Gly Lys Leu
305     310     315     320
Leu Val Arg Ala Asp Lys Ala Leu Leu Met Gln Ser Glu Glu Lys
325     330     335

```

<210> 7043
 <211> 533
 <212> PRT
 <213> Enterobacter cloacae

<400> 7043

```

Met Met Lys Ser Thr Phe Thr Met Ile Thr Leu Ala Leu Ala Ala Leu
1      5      10      15
Thr Val Ser Ser Thr Val Ala Ala Lys Thr Leu Val Tyr Cys Ser Glu
20      25      30
Gly Ser Pro Glu Asn Phe Asn Pro Gln Leu Tyr Thr Ser Gly Thr Ser
35      40      45

```

Val	Asp	Ala	Ser	Ala	Val	Pro	Val	Tyr	Asn	Arg	Leu	Val	Asp	Phe	Lys
50						55					60				
Pro	Gly	Thr	Thr	Glu	Leu	Val	Pro	Ser	Leu	Ala	Glu	Ser	Trp	Glu	Val
65					70					75					80
Ser	Glu	Asp	Gly	Lys	Val	Tyr	Thr	Phe	His	Leu	Arg	Lys	Gly	Val	Lys
				85					90					95	
Phe	His	Ser	Asn	Lys	Leu	Phe	Thr	Pro	Thr	Arg	Asp	Phe	Asn	Ala	Asp
			100					105					110		
Asp	Val	Ile	Phe	Ser	Phe	Met	Arg	Gln	Lys	Asp	Val	Asn	His	Pro	Tyr
		115						120				125			
His	Asn	Val	Ser	Asn	Gly	Ser	Tyr	Ser	Asn	Phe	Glu	Ser	Leu	Glu	Phe
	130					135					140				
Gly	Ser	Leu	Ile	Thr	Ala	Ile	Asp	Lys	Val	Asp	Asp	Arg	Thr	Val	Arg
145					150					155					160
Phe	Thr	Leu	Ala	His	Pro	Glu	Ala	Pro	Phe	Val	Ala	Asp	Leu	Ala	Trp
			165						170					175	
Tyr	Phe	Ala	Ser	Ile	Leu	Ser	Ala	Glu	Tyr	Ala	Asp	Ala	Met	Leu	Lys
			180					185					190		
Ala	Gly	Thr	Pro	Glu	Lys	Val	Asp	Met	Gln	Pro	Ile	Gly	Thr	Gly	Pro
		195					200					205			
Phe	Lys	Leu	Ser	Gln	Tyr	Gln	Lys	Asp	Ser	Arg	Ile	Leu	Phe	Thr	Ala
	210					215					220				
Phe	Pro	Asp	Tyr	Trp	Gln	Gly	Lys	Ser	Lys	Leu	Asp	Arg	Leu	Val	Phe
225					230					235					240
Thr	Ile	Thr	Pro	Asp	Ala	Ser	Val	Arg	Phe	Ala	Lys	Val	Glu	Lys	Asn
			245						250					255	
Glu	Cys	Gln	Val	Met	Pro	Phe	Pro	Asn	Pro	Ala	Asp	Leu	Pro	Arg	Met
			260					265					270		
Lys	Ala	Asn	Lys	Asp	Ile	Asn	Leu	Met	Ser	Lys	Ala	Gly	Leu	Asn	Thr
		275					280					285			
Gly	Phe	Leu	Ala	Phe	Asn	Thr	Gln	Lys	Pro	Pro	Leu	Asn	Asn	Val	Lys
	290					295					300				
Val	Arg	Gln	Ala	Leu	Ala	Met	Ala	Ile	Asn	Lys	Pro	Ala	Ile	Ile	Glu
305					310					315					320
Ala	Val	Phe	His	Gly	Thr	Gly	Thr	Ala	Ala	Lys	Asn	Leu	Leu	Pro	Pro
			325						330					335	
Gly	Val	Trp	Ser	Ala	Asp	Ser	Glu	Leu	Lys	Asp	Tyr	Asp	Tyr	Asp	Pro
			340					345					350		
Glu	Lys	Ala	Lys	Ala	Leu	Leu	Lys	Glu	Ala	Gly	Phe	Ala	Asn	Gly	Val
		355					360					365			
Ser	Ile	Asp	Leu	Trp	Ala	Met	Pro	Val	Gln	Arg	Pro	Tyr	Asn	Pro	Asn
	370					375					380				
Ala	Lys	Arg	Met	Ala	Glu	Met	Ile	Gln	Ala	Asp	Trp	Ala	Lys	Val	Gly
385					390					395					400
Val															

530

<210> 7044

<211> 275

<212> PRT

<213> Enterobacter cloacae

<400> 7044

```

Leu Lys Lys Leu Lys Ile Asn Tyr Leu Leu Ile Gly Ile Val Thr Leu
1      5      10      15
Leu Leu Ala Val Ala Leu Trp Pro Ser Ile Pro Trp Phe Gly Lys Ala
20      25      30
Glu Asn Arg Ile Ala Ala Ile Gln Glu Arg Gly Glu Leu Arg Val Ser
35      40      45
Thr Leu Ser Ser Pro Leu Ile Tyr Asp Asp Ile Asn Gly Lys Thr Ile
50      55      60
Gly Leu Asp Tyr Glu Leu Ala Gln Leu Phe Ala Asp Tyr Leu Gly Val
65      70      75      80
Lys Leu Lys Val Thr Val Arg Gln Asn Ile Asn Gln Leu Phe Asp Asp
85      90      95
Leu Asp His Asp Arg Ala Asp Ile Leu Ala Ala Gly Leu Val Tyr Asn
100     105     110
Ser Glu Arg Ser Lys Asn Tyr Gln Pro Gly Pro Thr Tyr Tyr Ser Val
115     120     125
Ser Gln Gln Val Val Tyr Arg Val Gly Ser Leu Arg Pro Arg Ser Leu
130     135     140
Ala Asp Ile Thr Asp Gln Gln Leu Thr Ile Ala Pro Gly His Val Val
145     150     155     160
Ile Asp Asp Leu Arg Ala Leu Lys Glu Lys Lys Tyr Pro Asn Leu Ser
165     170     175
Trp Thr Val Asp Pro Lys Leu Gly Thr Thr Glu Leu Leu Glu Gln Val
180     185     190
Lys Asp Lys Lys Leu Ala Tyr Thr Ile Ala Asp Ser Val Ala Ile Ser
195     200     205
Leu Phe Gln Arg Val His Pro Glu Ile Ala Val Ala Leu Asp Val Thr
210     215     220
Asp Glu Gln Pro Val Thr Trp Phe Thr Gln Leu Asp Asp Asp Gln Thr
225     230     235     240
Val Ser Ala Ala Met Leu Asp Phe Phe Asn Ser Ile Asn Glu Asp Gly
245     250     255
Thr Leu Ala Ser Ser Thr Thr Gly Val Glu Gly Ala Ala His Ser Val
260     265     270
Arg Trp Gln
275

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<210> 7045

<211> 259

<212> PRT

<213> Enterobacter cloacae

<400> 7045

```

Pro Lys Arg Gly Ser Cys Gln Pro Ser Trp Val Lys Thr Thr Arg Ala
1      5      10      15
Phe Arg Ile Val Glu Lys Thr Pro Arg Ser Ala Leu Ile Thr Ser Phe
20      25      30
Glu Phe Glu Pro Val Asp Gly Gln Pro Val Ala Asp Tyr Gln Pro Gly
35      40      45
Gln Tyr Leu Gly Val Trp Leu Lys Pro Glu Gly Phe Pro His Gln Glu
50      55      60
Ile Arg Gln Tyr Ser Leu Thr Arg Lys Pro Asp Gly Lys Gly Tyr Arg
65      70      75      80

```


Ile Ala Val Lys Arg Glu Glu Gly Gly Gln Val Ser Asn Trp Leu His
 85 90 95
 Asn Glu Ala Ser Val Gly Asp Val Val His Leu Ala Ala Pro Ala Gly
 100 105 110
 Asp Phe Phe Met Ala Val Glu Thr Asn Thr Pro Val Thr Leu Ile Ser
 115 120 125
 Ala Gly Val Gly Gln Thr Pro Met Leu Ala Met Leu Asp Thr Leu Ala
 130 135 140
 Lys Ala Asn His Ser Ala Gln Val Asn Trp Phe His Ala Ala Glu Asn
 145 150 155 160
 Gly Asp Val His Ala Phe Ala Asp Glu Val Lys Ala Leu Gly Ala Gly
 165 170 175
 Leu Pro His Phe Thr Ala His Thr Trp Tyr Arg Ser Pro Thr Glu Ala
 180 185 190
 Asp Arg Ala Ala Ala Arg Phe Asp Ser Glu Gly Leu Met Asn Leu Gly
 195 200 205
 Gln His Glu Gly Ala Phe Ser Ala Pro Gly Met Gln Phe Tyr Val Cys
 210 215 220
 Gly Pro Val Ala Phe Met Gln Tyr Ala Ala Lys Gln Leu Val Asp Leu
 225 230 235 240
 Gly Val Asn Lys Asp Asn Ile His Tyr Glu Cys Phe Gly Pro His Lys
 245 250 255
 Val Leu

<210> 7046

<211> 262

<212> PRT

<213> Enterobacter cloacae

<400> 7046

Ile Ala Met Gly Ser Gly Asn Asn Ala His Val Asp Ile Asp Ile Ala
 1 5 10 15
 Val Ala Ala Lys Arg Thr His Phe Pro Leu Leu Gln His Ala Gln Gln
 20 25 30
 Phe Asp Leu Gln Arg Arg Gly His Ile Ala Asn Phe Ile Lys Glu Gln
 35 40 45
 Arg Ala Pro Leu Cys Arg Leu Glu Gln Pro Phe Thr Ala Ala His Arg
 50 55 60
 Ala Gly Lys Gly Ala Ala Gly Met Ala Glu Glu Leu Arg Leu Lys Gln
 65 70 75 80
 Leu Phe Arg Gln Arg Ala Thr Val Asp Gly Asn Lys Gly Ile Phe Thr
 85 90 95
 Ala Trp Ala Gly Val Val Asp Arg Leu Gly Gln Asp Leu Phe Pro Gly
 100 105 110
 Pro Ala Leu Ala Val Asp Gln His Ala Asn Val Gly Leu Arg His His
 115 120 125
 Pro Arg Leu Phe Gln Gln Ala Gln His His Arg Ala Thr Arg His Asp
 130 135 140
 Gly Phe Thr Pro Ala Val Val Ala Gly Trp Arg Arg Val Leu Lys Ser
 145 150 155 160
 Ala Val Asp Arg Phe Ile Glu Gly Val Phe Ile His Arg Phe Gly Glu
 165 170 175
 Glu Ala Glu Tyr Pro Leu Leu Arg Arg Gly His Arg Ile Arg Asn Arg
 180 185 190
 Ser Val Ser Gly Glu Asp Asn His Arg His Pro Gly Leu Leu Leu
 195 200 205
 Asp Leu Arg Glu Gln Leu Gln Ala Ile His Phe Ile His Ala Gln Ile
 210 215 220
 Ala Asp His Gln Ile Asp Phe Leu Ala Ala Glu His Phe Gln Pro Leu
 225 230 235 240

```
<210> 7047
<211> 495
<212> PRT
<213> Enterobacter cloacae
```

Arg 1	Ala	Asp	Ser	Val 5	Thr	Leu	Ser	Ser	Asn 10	Pro	Asp	Asp	Glu	Ser 15	Asn
Val	Leu	Lys	Arg 20	Trp	Pro	Ala	Phe	Pro 25	Arg	Ser	Leu	Arg	Gln 30	Leu	Val
Met	Met	Ala 35	Phe	Leu	Leu	Ile	Leu 40	Leu	Pro	Leu	Leu	Val 45	Leu	Ala	Trp
Gln	Ala 50	Trp	Gln	Ser	Leu	Asn 55	Ala	Leu	Ser	Ala	Gln 60	Ala	Ala	Leu	Thr
Asn 65	Arg	Thr	Thr	Leu	Ile 70	Asp	Ala	Arg	Arg	Ser 75	Glu	Ala	Met	Thr	Asn 80
Ala	Ala	Leu	Glu 85	Met	Glu	Arg	Ser	Tyr 90	Arg	Gln	Tyr	Cys	Val 95	Leu	Asp
Asp	Arg	Thr	Leu 100	Glu	Arg	Val	Tyr	Gln 105	Asn	Gln	Arg	Lys	Arg 110	Tyr	Ser
Glu	Met 115	Leu	Asp	Ala	His	Ala	Gly 120	Val	Leu	Pro	Asp	Asp 125	Lys	Leu	Tyr
Gln	Ala 130	Leu	Arg	Gln	Asp	Leu 135	Asn	Asp	Leu	Ala	Arg 140	Leu	Gln	Cys	Lys
Asn 145	Ser	Gly	Pro	Asp 150	Ala	Ala	Ala	Ala	Arg 155	Leu	Glu	Ala	Phe	Ala	Ala 160
Asn	Ala	Asn	Thr 165	Glu	Met	Val	Gln	Ser 170	Thr	Arg	Thr	Val	Ile 175	Phe	Ser
Arg	Gly	Gln 180	Gln	Leu	Gln	Gln	Glu 185	Ile	Ala	Glu	Arg	Gly	Gln 190	Phe	Phe
Gly	Trp 195	Gln	Ala	Leu	Val	Leu	Phe 200	Leu	Val	Ser	Leu	Gly 205	Leu	Val	Leu
Leu	Phe 210	Thr	Arg	Met	Ile	Ile 215	Gly	Pro	Val	Lys	Gly 220	Ile	Gln	Arg	Met
Ile 225	Asn	Arg	Leu	Gly 230	Glu	Gly	Lys	Ser	Leu	Gly 235	Asp	Thr	Val	Val	Phe 240
Lys	Gly	Pro	Arg 245	Glu	Leu	Arg	Ser	Val 250	Gly	Gln	Arg	Ile	Ile 255	Trp	Leu
Ser	Glu	Arg 260	Leu	Ala	Trp	Leu	Glu 265	Ser	Gln	Arg	His	Gln	Phe 270	Leu	Arg
His	Ile 275	Ser	His	Glu	Leu	Lys	Thr 280	Pro	Leu	Ala	Ser	Met 285	Arg	Glu	Gly
Thr	Glu 290	Leu	Leu	Ala	Asp	Glu 295	Val	Ala	Gly	Pro	Leu 300	Ser	Pro	Glu	Gln
Lys 305	Glu	Ile	Val	Ala	Ile 310	Leu	Asp	Ala	Ser	Ser 315	Arg	Asn	Leu	Gln	Lys 320
Leu	Ile	Glu	Gln 325	Leu	Leu	Asp	Tyr	Asn 330	Arg	Lys	Leu	Ala	Asp 335	Gly	Ala
Val	Val	Leu 340	Glu	Ser	Val	Glu	Ile 345	Glu	Pro	Leu	Val	Asp 350	Met	Val	Ile
Ser	Ala 355	His	Ser	Leu	Pro	Ala	Arg 360	Ala	Lys	Met	Met	His 365	Thr	Gln	Val
Asp	Leu 370	Asn	Ala	Pro	Ser	Cys 375	Leu	Ala	Glu	Pro	Met 380	Leu	Leu	Met	Ser
Val 385	Leu	Asp	Asn	Leu	Tyr 390	Ser	Asn	Ala	Val	His 395	Tyr	Gly	Thr	Glu	Ser 400

Gly Thr Ile Tyr Ile Arg Ser Asn Asn Asn Gly Ser Arg Val Phe Ile
 405 410 415
 Asp Val Ala Asn Thr Gly Ser Pro Ile Pro Asp Asp Glu Lys Thr Met
 420 425 430
 Ile Phe Glu Pro Phe Phe Gln Gly Ser His Gln Arg Lys Gly Ala Val
 435 440 445
 Lys Gly Ser Gly Leu Gly Leu Ser Ile Ala Arg Asp Cys Ile Arg Arg
 450 455 460
 Met Gln Gly Glu Leu Asn Ile Val Ser Asp Glu Arg Ala Asp Val Cys
 465 470 475 480
 Phe Arg Ile Glu Leu Pro Leu Glu Pro Glu Lys Ser Met Lys
 485 490 495

<210> 7048

<211> 116

<212> PRT

<213> Enterobacter cloacae

<400> 7048

Gly Pro Thr Met Lys Lys Ile Asp Ala Ile Ile Lys Pro Phe Lys Leu
 1 5 10 15
 Asp Asp Val Arg Glu Ala Leu Ala Glu Val Gly Ile Thr Gly Met Thr
 20 25 30
 Val Thr Glu Val Lys Gly Phe Gly Arg Gln Lys Gly His Thr Glu Leu
 35 40 45
 Tyr Arg Gly Ala Glu Tyr Met Val Asp Phe Leu Pro Lys Val Lys Ile
 50 55 60
 Glu Ile Val Val Ser Asp Glu Ile Val Asp Thr Cys Val Asp Thr Ile
 65 70 75 80
 Ile Arg Thr Ala Gln Thr Gly Lys Ile Gly Asp Gly Lys Ile Phe Val
 85 90 95
 Phe Asp Val Ala Arg Val Ile Arg Ile Arg Thr Gly Glu Glu Asp Asp
 100 105 110
 Ala Ala Ile
 115

<210> 7049

<211> 455

<212> PRT

<213> Enterobacter cloacae

<400> 7049

Asp Ala Glu Thr Arg Gly Cys Glu Ala Met Thr Ser Arg Lys Pro Ala
 1 5 10 15
 His Leu Leu Leu Val Asp Asp Asp Pro Gly Leu Leu Lys Leu Leu Gly
 20 25 30
 Met Arg Leu Val Ser Glu Gly Tyr Ser Val Val Thr Ala Glu Ser Gly
 35 40 45
 Gln Glu Gly Leu Lys Val Leu Ser Arg Glu Lys Ile Asp Leu Val Ile
 50 55 60
 Ser Asp Leu Arg Met Asp Glu Met Asp Gly Leu Gln Leu Phe Thr Glu
 65 70 75 80
 Ile Gln Lys Gln Gln Pro Gly Met Pro Val Ile Ile Leu Thr Ala His
 85 90 95
 Gly Ser Ile Pro Asp Ala Val Ala Ala Thr Gln Gln Gly Val Phe Ser
 100 105 110
 Phe Leu Thr Lys Pro Val Asp Lys Asp Ala Leu Tyr Lys Ala Ile Asp
 115 120 125
 Ser Ala Leu Glu His Ala Ala Pro Ser Gly Asp Asp Gly Trp Arg Glu
 130 135 140
 Ser Ile Val Thr Arg Ser Pro Val Met Leu Arg Leu Leu Glu Gln Ala

145 150 155 160
 Arg Met Val Ala Gln Ser Asp Val Ser Val Leu Ile Asn Gly Gln Ser
 165 170 175
 Gly Thr Gly Lys Glu Ile Leu Ala Gln Ala Ile His Asn Ala Ser Pro
 180 185 190
 Arg Ser Lys Asn Ala Phe Ile Ala Ile Asn Cys Gly Ala Leu Pro Glu
 195 200 205
 Gln Leu Leu Glu Ser Glu Leu Phe Gly His Ala Arg Gly Ala Phe Thr
 210 215 220
 Gly Ala Val Ser Ser Arg Glu Gly Leu Phe Gln Ala Ala Glu Gly Gly
 225 230 235 240
 Thr Leu Phe Leu Asp Glu Ile Gly Asp Met Pro Ala Pro Leu Gln Val
 245 250 255
 Lys Leu Leu Arg Val Leu Gln Glu Arg Lys Val Arg Pro Leu Gly Ser
 260 265 270
 Asn Arg Asp Ile Asp Ile Asn Val Arg Ile Ile Ser Ala Thr His Arg
 275 280 285
 Asp Leu Pro Lys Val Met Ala Arg Asn Glu Phe Arg Glu Asp Leu Tyr
 290 295 300
 Tyr Arg Leu Asn Val Val Asn Leu Lys Ile Pro Ala Leu Ala Glu Arg
 305 310 315 320
 Ala Glu Asp Ile Pro Leu Leu Ala Asn His Leu Leu Arg Gln Ala Ala
 325 330 335
 Asp Arg His Lys Pro Phe Val Arg Ala Phe Ser Thr Asp Ala Met Lys
 340 345 350
 Arg Leu Met Thr Ala Ser Trp Pro Gly Asn Val Arg Gln Leu Val Asn
 355 360 365
 Val Ile Glu Gln Cys Val Ala Leu Thr Ser Ser Pro Val Ile Ser Asp
 370 375 380
 Ala Leu Val Glu Gln Ala Leu Glu Gly Glu Asn Thr Ala Leu Pro Thr
 385 390 395 400
 Phe Ala Glu Ala Arg Asn Gln Phe Glu Leu Asn Tyr Leu Arg Lys Leu
 405 410 415
 Leu Gln Ile Thr Lys Gly Asn Val Thr His Ala Ala Arg Met Ala Gly
 420 425 430
 Arg Asn Arg Thr Glu Phe Tyr Lys Leu Leu Ser Arg His Glu Leu Glu
 435 440 445
 Ala Asn Asp Phe Lys Glu
 450 455

<210> 7050

<211> 1306

<212> PRT

<213> Enterobacter cloacae

<400> 7050

Ala Pro Arg Arg Phe Glu Asp Glu Arg Leu Met Met Glu Ile Leu Arg
 1 5 10 15
 Gly Ser Pro Ala Leu Ser Ala Phe Arg Ile Thr Lys Leu Leu Ala Arg
 20 25 30
 Phe Gln Ala Ala Asp Leu Pro Val Ser Asn Ile Tyr Ala Glu Tyr Val
 35 40 45
 His Phe Ala Asp Leu Asn Ala Pro Leu Asn Ala Glu Glu Arg Val Gln
 50 55 60
 Leu Glu Arg Leu Leu Lys Tyr Gly Pro Ser Leu Ser Ser His Thr Pro
 65 70 75 80
 Thr Gly Lys Leu Ile Leu Ala Thr Pro Arg Pro Gly Thr Ile Ser Pro
 85 90 95
 Trp Ser Ser Lys Ala Thr Asp Ile Ala His Asn Cys Gly Leu Asn Gln
 100 105 110
 Ile Asn Arg Leu Glu Arg Gly Val Ala Tyr Tyr Val Glu Ala Ser Thr

			115				120				125				
Leu	Ser	Asp	Ala	Gln	Trp	Gln	Ala	Val	Ala	Ala	Glu	Leu	His	Asp	Arg
	130					135					140				
Met	Met	Glu	Ser	Val	Phe	Asp	Ser	Leu	Asp	Asp	Ala	Gln	Lys	Leu	Phe
145					150					155					160
Ser	His	His	Gln	Pro	Ala	Pro	Val	Gln	Ser	Val	Asp	Leu	Leu	Gly	Gln
				165						170				175	
Gly	Arg	Gln	Ala	Leu	Ile	Asp	Ala	Asn	Leu	Arg	Leu	Gly	Leu	Ala	Leu
			180					185					190		
Ala	Glu	Asp	Glu	Ile	Asp	Tyr	Leu	Gln	Asp	Ala	Phe	Val	Lys	Leu	Asn
		195					200					205			
Arg	Asn	Pro	Asn	Asp	Ile	Glu	Leu	Tyr	Met	Phe	Ala	Gln	Ala	Asn	Ser
	210					215					220				
Glu	His	Cys	Arg	His	Lys	Ile	Phe	Asn	Ala	Asp	Trp	Ile	Ile	Asp	Gly
225					230					235					240
Glu	Gln	Gln	Pro	Lys	Ser	Leu	Phe	Lys	Met	Ile	Lys	Asn	Thr	Met	Glu
				245					250					255	
Gln	Thr	Pro	Asp	His	Val	Leu	Ser	Ala	Tyr	Lys	Asp	Asn	Ala	Ala	Val
			260					265					270		
Met	Glu	Gly	Ser	Glu	Val	Gly	Arg	Phe	Phe	Ala	Asp	Arg	Glu	Ala	Gly
		275					280					285			
Arg	Tyr	Asp	Phe	His	Gln	Glu	Pro	Ala	His	Ile	Leu	Met	Lys	Val	Glu
	290					295					300				
Thr	His	Asn	His	Pro	Thr	Ala	Ile	Ser	Pro	Trp	Pro	Gly	Ala	Ala	Thr
305					310					315					320
Gly	Ser	Gly	Gly	Glu	Ile	Arg	Asp	Glu	Gly	Ala	Thr	Gly	Arg	Gly	Ala
				325					330					335	
Lys	Pro	Lys	Ala	Gly	Leu	Val	Gly	Phe	Ser	Val	Ser	Asn	Leu	Arg	Ile
			340					345					350		
Pro	Gly	Phe	Glu	Gln	Pro	Trp	Glu	Glu	Asp	Phe	Gly	Lys	Pro	Glu	Arg
		355					360					365			
Ile	Val	Thr	Ala	Leu	Asp	Ile	Met	Thr	Glu	Gly	Pro	Leu	Gly	Gly	Ala
	370					375					380				
Ala	Phe	Asn	Asn	Glu	Phe	Gly	Arg	Pro	Ala	Leu	Asn	Gly	Tyr	Phe	Arg
385					390					395					400
Thr	Tyr	Glu	Glu	Lys	Val	Asp	Ser	His	Asn	Gly	Glu	Glu	Leu	Arg	Gly
				405					410					415	
Tyr	His	Lys	Pro	Ile	Met	Leu	Ala	Gly	Gly	Ile	Gly	Asn	Ile	Arg	Ala
			420					425					430		
Asp	His	Val	Gln	Lys	Gly	Glu	Ile	Val	Val	Gly	Ala	Lys	Leu	Ile	Val
		435					440					445			
Leu	Gly	Gly	Pro	Ala	Met	Asn	Ile	Gly	Leu	Gly	Gly	Gly	Ala	Ala	Ser
	450					455					460				
Ser	Met	Ala	Ser	Gly	Gln	Ser	Asp	Ala	Asp	Leu	Asp	Phe	Ala	Ser	Val
46															

Asp	Leu	Pro	Leu	Asp	Val	Leu	Leu	Gly	Lys	Thr	Pro	Lys	Met	Thr	Arg
610						615					620				
Asp	Val	Gln	Thr	Arg	Lys	Ala	Ala	Gly	Lys	Ala	Leu	Asp	Arg	Gln	Gly
625					630					635					640
Ile	Thr	Val	Ala	Glu	Ala	Val	Asn	Arg	Val	Leu	His	Leu	Pro	Ala	Val
				645					650						655
Ala	Glu	Lys	Thr	Phe	Leu	Val	Thr	Ile	Gly	Asp	Arg	Thr	Val	Thr	Gly
			660					665					670		
Met	Val	Ser	Arg	Asp	Gln	Met	Val	Gly	Pro	Trp	Gln	Ile	Pro	Val	Ala
		675					680					685			
Asn	Cys	Ala	Val	Thr	Thr	Ala	Ser	Leu	Asp	Ser	Tyr	Tyr	Gly	Glu	Ala
690						695					700				
Met	Ala	Leu	Gly	Glu	Arg	Thr	Pro	Val	Ala	Leu	Leu	Asp	Phe	Ala	Ala
705					710					715					720
Ser	Ala	Arg	Leu	Ala	Val	Gly	Glu	Ala	Leu	Thr	Asn	Ile	Ala	Ala	Thr
				725					730						735
Gln	Ile	Gly	Asp	Ile	Lys	Arg	Ile	Lys	Leu	Ser	Ala	Asn	Trp	Met	Ala
			740					745					750		
Ala	Ala	Gly	His	Pro	Gly	Glu	Asp	Ala	Gly	Leu	Tyr	Glu	Ala	Val	Lys
		755						760				765			
Ala	Val	Gly	Glu	Glu	Leu	Cys	Pro	Ala	Leu	Gly	Leu	Thr	Ile	Pro	Val
		770				775					780				
Gly	Lys	Asp	Ser	Met	Ser	Met	Lys	Thr	Arg	Trp	Gln	Glu	Gly	Asn	Glu
785					790					795					800
Gln	Arg	Glu	Met	Thr	Ser	Pro	Leu	Ser	Leu	Val	Ile	Thr	Ala	Phe	Ala
				805					810						815
Arg	Val	Glu	Asp	Val	Arg	His	Thr	Val	Thr	Pro	Gln	Leu	Ser	Thr	Glu
			820					825					830		
Asp	Asn	Ala	Leu	Leu	Leu	Ile	Asp	Leu	Gly	Lys	Gly	His	Asn	Ala	Leu
		835					840					845			
Gly	Ala	Thr	Ala	Leu	Ala	Gln	Val	Tyr	Arg	Gln	Leu	Gly	Asp	Lys	Pro
850						855					860				
Ala	Asp	Val	Arg	Asp	Val	Ala	Gln	Leu	Lys	Gly	Phe	Tyr	Asp	Ala	Ile
865					870					875					880
Gln	Ala	Leu	Val	Ala	Gln	Arg	Lys	Leu	Leu	Ala	Tyr	His	Asp	Arg	Ser
				885					890						895
Asp	Gly	Gly	Leu	Leu	Val	Thr	Leu	Ala	Glu	Met	Ala	Phe	Thr	Gly	His
			900					905					910		
Cys	Gly	Val	Glu	Ala	Asn	Ile	Ala	Thr	Leu	Gly	Glu	Asp	Arg	Leu	Ala
		915					920					925			
Ala	Leu	Phe	Asn	Glu	Glu	Leu	Gly	Ala	Val	Ile	Gln	Val	Arg	Ala	Ala
		930				935					940				
Asp	Arg	Asp	Ala	Val	Glu	Ala	Ile	Leu	Ala	Gln	His	Gly	Leu	Ala	Asp
945					950					955					960
Cys	Val	His	Tyr	Leu	Gly	Lys	Ala	Val	Gln	Gly	Asp	Arg	Phe	Val	Ile
				965					970						975
Glu	Ala	Asp	Gly	His	Ala	Val	Phe	Ser	Glu	Ser	Arg	Thr	Thr	Leu	Arg
			980					985					990		
Met	Trp	Trp	Ala	Glu	Thr	Thr	Trp	Gln	Met	Gln	Arg	Leu	Arg	Asp	Asn
		995					1000					1005			
Pro	Glu	Cys	Ala	Asp	Gln	Glu	His	Asn	Ala	Lys	Ala	Asn	Asp	Asn	Asp
		1010				1015					1020				
Pro	Gly	Leu	Asn	Val	Lys	Leu	Ser	Phe	Asp	Ile	Asn	Glu	Asp	Ile	Ala
1025					1030					1035					1040
Ala	Pro	Tyr	Ile	Ala	Thr	Gly	Ala	Arg	Pro	Lys	Val	Ala	Val	Leu	Arg
				1045					1050						1055
Glu	Gln	Gly	Val	Asn	Ser	His	Val	Glu	Met	Ala	Ala	Ala	Phe	His	Arg
			1060					1065					1070		
Ala	Gly	Phe	Asp	Ala	Ile	Asp	Val	His	Met	Ser	Asp	Leu	Leu	Ala	Gly
		1075					1080					1085			
Arg	Thr	Gly	Leu	Asp	Asp	Phe	Gln	Ala	Leu	Val	Ala	Cys	Gly	Gly	Phe

1090	1095	1100
Ser Tyr Gly Asp Val	Leu Gly Ala Gly Glu Gly	Trp Ala Lys Ser Ile
1105	1110	1115
Leu Phe Asn Ser Arg	Val Arg Asp Glu Phe Glu Thr Phe Phe His Arg	1120
	1125	1130
Pro Gln Thr Leu Ala Leu	Gly Val Cys Asn Gly Cys Gln Met Met Ser	1135
	1140	1145
Asn Leu Arg Glu Leu Ile	Pro Gly Ser Glu Ala Trp Pro Arg Phe Val	1150
	1155	1160
Arg Asn Gln Ser Asp Arg	Phe Glu Ala Arg Phe Ser Leu Val Glu Val	1165
	1170	1175
Thr Gln Ser Pro Ser	Leu Leu Leu Gln Gly Met Val Gly Ser Gln Met	1180
1185	1190	1195
Pro Ile Ala Val Ser	His Gly Glu Gly Gln Val Glu Met Arg Asp Ala	1200
	1205	1210
Ala His Leu Ala Gln Leu	Glu Ser Lys Gly Leu Val Ala Leu Arg Phe	1215
	1220	1225
Val Asp Asn Phe Gly Lys	Val Thr Glu Thr Tyr Pro Ala Asn Pro Asn	1230
	1235	1240
Gly Ser Ala Asn Gly Ile	Thr Ala Val Thr Ser Glu Ser Gly Arg Val	1245
	1250	1255
Thr Ile Met Met Pro	His Pro Glu Arg Val Phe Arg Thr Val Ser Asn	1260
1265	1270	1275
Ser Trp His Pro Glu	Asn Trp Gly Glu Asp Ser Pro Trp Met Arg Ile	1280
	1285	1290
Phe Arg Asn Ala Arg	Lys Gln Leu Gly	1295
	1300	1305

<210> 7051

<211> 257

<212> PRT

<213> Enterobacter cloacae

<400> 7051

Ala Gly Lys Ile	Asn Glu Met Asn Asn Asn Leu Val Ser Met Ser His
1	5 10 15
Val Phe Tyr Arg	Ala Leu Arg Ala Val Phe Ser Ser Lys Asn Val Arg
	20 25 30
Leu Ser Leu Pro Cys	Leu Leu Leu Ala Gly Cys Val Thr His Ala Pro
	35 40 45
Lys Ser Ala Ile	Ser His Lys Gln Glu Asp Lys Trp Pro Gln Lys Gln
	50 55 60
Leu Ala Asp Phe	Leu Ser Thr Arg Cys Asp Asp Ile Trp Ser Leu Ser
65	70 75 80
Gly Arg Asp Val	Glu Ser Asn Pro Leu Phe Trp Leu Arg Gly Ile Asp
	85 90 95
Cys Ala Gln Arg	Leu Ala Pro Ala Glu Ala Arg Ala Gln Ala Ala Met
	100 105 110
Leu Met Asp Asp	Thr Trp Gln Asp Ala Phe Lys Arg Gly Ile Val Met
	115 120 125
Ala Asp Ala Arg	Ile Thr Pro Val Glu Arg Arg Ala Asn Val Thr Arg
	130 135 140
Leu Asp Thr Tyr	Val Ile Asn Ile Pro Pro Gln Val Arg Pro Val Tyr
145	150 155 160
Gln Leu Trp Arg	Asp Gly Gln Thr Leu Gln Leu Gln Leu Ser Glu Glu
	165 170 175
Arg Phe Arg Tyr	Ser Lys Leu Gln Gln Ser Ser Asp Ser Glu Leu Asp
	180 185 190
Ala Leu Arg Gln	Gln Gln Glu Ser Leu Arg Glu Gln Leu Glu Thr Thr
	195 200 205
Thr Arg Lys Leu	Glu Asn Leu Thr Asp Ile Glu Arg Gln Leu Ser Thr

210		215		220
Arg Lys Pro Ala Gly	Ser Tyr Leu Pro Asp Gly	Ser Lys Gly Asn Ser		
225	230	235	240	
Ala Thr Thr Pro Asp	Ser Glu Thr Pro Lys Gln Glu Asp Val Lys Pro			
245	250	255		

<210> 7052

<211> 431

<212> PRT

<213> Enterobacter cloacae

<400> 7052

His Lys Ile Ser Asn Asn Gln Lys Arg Ser Lys Glu Arg Leu Met Glu	
1	5 10 15
Ser Lys Val Val Val Pro Ala Glu Gly Lys Lys Ile Thr Leu Gln Asn	
20	25 30
Gly Lys Ile Asn Val Pro His Asn Pro Ile Ile Pro Phe Ile Glu Gly	
35	40 45
Asp Gly Ile Gly Val Asp Val Thr Pro Ala Met Leu Lys Val Val Asp	
50	55 60
Ala Ala Val Glu Lys Ala Tyr Lys Gly Glu Arg Lys Ile Ser Trp Met	
65	70 75 80
Glu Ile Tyr Thr Gly Glu Lys Ser Thr Gln Val Tyr Gly Gln Asp Val	
85	90 95
Trp Leu Pro Ala Glu Thr Leu Asp Leu Ile Arg Asp Tyr Arg Val Ala	
100	105 110
Ile Lys Gly Pro Leu Thr Thr Pro Val Gly Gly Gly Ile Arg Ser Leu	
115	120 125
Asn Val Ala Leu Arg Gln Glu Leu Asp Leu Tyr Val Cys Leu Arg Pro	
130	135 140
Val Arg Tyr Tyr Gln Gly Thr Pro Ser Pro Val Lys His Pro Glu Leu	
145	150 155 160
Thr Asp Met Val Ile Phe Arg Glu Asn Ser Glu Asp Ile Tyr Ala Gly	
165	170 175
Ile Glu Trp Lys Ala Asp Ser Ala Asp Ala Glu Lys Val Ile Lys Phe	
180	185 190
Leu Arg Glu Glu Met Gly Val Lys Lys Ile Arg Phe Pro Glu His Cys	
195	200 205
Gly Ile Gly Ile Lys Pro Cys Ser Glu Glu Gly Thr Lys Arg Leu Val	
210	215 220
Arg Ala Ala Ile Glu Tyr Ala Ile Thr Asn Asp Arg Asp Ser Val Thr	
225	230 235 240
Leu Val His Lys Gly Asn Ile Met Lys Phe Thr Glu Gly Ala Phe Lys	
245	250 255
Asp Trp Gly Tyr Gln Leu Ala Thr Glu Glu Phe Gly Gly Glu Leu Ile	
260	265 270
Asp Gly Gly Pro Trp Gln Lys Ile Lys Asn Pro Asn Thr Gly Lys Glu	
275	280 285
Ile Ile Ile Lys Asp Val Ile Ala Asp Ala Phe Leu Gln Gln Ile Leu	
290	295 300
Leu Arg Pro Ala Glu Tyr Asp Val Ile Ala Cys Met Asn Leu Asn Gly	
305	310 315 320
Asp Tyr Ile Ser Asp Ala Leu Ala Ala Gln Val Gly Gly Ile Gly Ile	
325	330 335
Ala Pro Gly Ala Asn Ile Gly Asp Glu Cys Ala Leu Phe Glu Ala Thr	
340	345 350
His Gly Thr Ala Pro Lys Tyr Ala Gly Gln Asp Lys Val Asn Pro Gly	
355	360 365
Ser Ile Ile Leu Ser Ala Glu Met Met Leu Arg His Met Glu Trp Phe	

370 375 380
 Glu Ala Ala Asp Leu Ile Val Lys Gly Met Glu Gly Ala Ile Asn Ala
 385 390 395 400
 Lys Thr Val Thr Tyr Asp Phe Glu Arg Leu Met Glu Gly Ala Lys Leu
 405 410 415
 Leu Lys Cys Ser Glu Phe Gly Asp Ala Ile Ile Ala Asn Met
 420 425 430

<210> 7053

<211> 100 .

<212> PRT

<213> Enterobacter cloacae

<400> 7053

Gln Arg Glu Pro Glu Gly Ser Arg Phe Leu Cys Thr Gln Asp Gly Asn
 1 5 10 15
 Asn Ala Met Thr His Asp Ile Pro Leu Lys Tyr Tyr Asp Ile Val Asp
 20 25 30
 Glu Tyr Ala Thr Glu Thr Ala Lys Pro Val Glu Glu Ala Glu Arg Thr
 35 40 45
 Pro Leu Ala His Tyr Phe Gln Leu Leu Leu Thr Arg Leu Tyr Asn Asn
 50 55 60
 Glu Glu Ile Ser Glu Glu Ala Gln Arg Glu Met Ala Val Gln Ala Glu
 65 70 75 80
 Ile Asp Glu Ala Arg Ile Asp Asp Ile Ala Asn Phe Leu Asn Gln Trp
 85 90 95
 Gly Asn Glu
 100

<210> 7054

<211> 345

<212> PRT

<213> Enterobacter cloacae

<400> 7054

Arg His Ile Asp Gly Asn Ile Pro Ala Ile Gly Phe Ile Ser His Val
 1 5 10 15
 Asp Thr Ser Pro Asp Phe Ser Gly Lys His Val Asn Pro Gln Ile Val
 20 25 30
 Glu Asn Tyr Arg Gly Gly Asp Ile Ala Leu Gly Ile Gly Asp Glu Val
 35 40 45
 Leu Ser Pro Val Met Phe Pro Val Leu His Gln Leu Leu Gly Gln Thr
 50 55 60
 Leu Ile Thr Thr Asp Gly Lys Thr Leu Leu Gly Ala Asp Asp Lys Ala
 65 70 75 80
 Gly Ile Ala Glu Ile Met Thr Ala Leu Ala Val Leu Lys Gly Lys Asn
 85 90 95
 Ile Pro His Gly Asp Ile Arg Val Ala Phe Thr Pro Asp Glu Glu Val
 100 105 110
 Gly Lys Gly Ala Lys His Phe Asp Val Glu Ala Phe Asn Ala Gln Trp
 115 120 125
 Ala Tyr Thr Val Asp Gly Gly Gly Val Gly Glu Leu Glu Tyr Glu Asn
 130 135 140
 Phe Asn Ala Ala Ser Val Thr Ile Lys Ile Val Gly Asn Asn Val His
 145 150 155 160
 Pro Gly Ser Ala Lys Gly Val Met Val Asn Ala Leu Ser Leu Ala Ala
 165 170 175
 Arg Ile His Ala Glu Val Pro Ala Glu Glu Ser Pro Glu Met Thr Glu
 180 185 190
 Gly Tyr Glu Gly Phe Tyr His Leu Thr Ser Ile Lys Gly Thr Val Asp
 195 200 205

Ser Ala Gln Met His Tyr Ile Val Arg Asp Phe Asp Arg Lys Ala Phe
 210 215 220
 Glu Ala Arg Lys Arg Lys Met Met Glu Ile Ala Lys Lys Val Gly Lys
 225 230 235 240
 Gly Leu His Pro Asp Cys Tyr Ile Glu Leu Ile Ile Glu Asp Ser Tyr
 245 250 255
 Tyr Asn Met Arg Glu Lys Val Met Glu His Pro His Ile Leu Asp Ile
 260 265 270
 Ala Gln Gln Ala Met Arg Asp Cys Asp Ile Glu Pro Val Met Lys Pro
 275 280 285
 Ile Arg Gly Gly Thr Asp Gly Ser Gln Leu Ser Phe Met Gly Leu Pro
 290 295 300
 Cys Pro Asn Leu Phe Thr Gly Gly Tyr Asn Tyr His Gly Lys His Glu
 305 310 315 320
 Phe Val Thr Leu Glu Gly Met Glu Lys Ala Val Gln Val Ile Val Arg
 325 330 335
 Ile Ala Glu Leu Thr Ala Lys Arg
 340 345

<210> 7055
 <211> 94
 <212> PRT
 <213> Enterobacter cloacae

<400> 7055
 Phe Asn Asp Lys Asn His Thr Glu Arg Lys Ala Met Gly Ile Leu Ser
 1 5 10 15
 Trp Ile Ile Phe Gly Leu Ile Ala Gly Ile Leu Ala Lys Trp Ile Met
 20 25 30
 Pro Gly Lys Asp Gly Gly Gly Phe Ile Val Thr Ile Ile Leu Gly Ile
 35 40 45
 Val Gly Ala Val Val Gly Gly Trp Ile Ser Thr Leu Phe Gly Phe Gly
 50 55 60
 Arg Val Asp Gly Phe Asn Phe Gly Ser Phe Val Val Ala Val Ile Gly
 65 70 75 80
 Ala Leu Val Val Leu Phe Ile Tyr Arg Lys Ile Lys Ser
 85 90

<210> 7056
 <211> 223
 <212> PRT
 <213> Enterobacter cloacae

<400> 7056
 Ala Ile Met Arg Gln Leu Ile Thr Pro Glu Asn Thr Met Thr Lys Thr
 1 5 10 15
 Ser Phe Arg Lys His Arg Val Glu Arg Phe Ser Ser Arg Gln Ala Thr
 20 25 30
 Arg Arg Thr Pro Glu Pro Gln Pro Thr Arg Val Ile Leu Phe Asn Lys
 35 40 45
 Pro Tyr Asp Val Leu Pro Gln Phe Thr Asp Glu Ala Gly Arg Ser Thr
 50 55 60
 Leu Lys Asp Phe Ile Pro Val Gln Gly Val Tyr Ala Ala Gly Arg Leu
 65 70 75 80
 Asp Arg Asp Ser Glu Gly Leu Leu Val Leu Thr Asn Asp Gly Val Leu
 85 90 95
 Gln Ala Arg Leu Thr Gln Pro Gly Lys Arg Thr Gly Lys Ile Tyr Tyr
 100 105 110
 Val Gln Val Glu Gly Glu Pro Asp Asp Ala Ser Leu Ala Lys Leu Arg
 115 120 125
 Asn Gly Val Thr Leu Asn Asp Gly Pro Thr Leu Pro Ala Gly Ile Glu

130	135	140
Arg Val Asn Glu Pro Glu Trp Leu Trp Pro Arg Asn Pro Pro Ile Arg		
145	150	155
Glu Arg Lys Ser Ile Pro Thr Ser Trp Leu Lys Ile Thr Leu Tyr Glu		
	165	170
Gly Arg Asn Arg Gln Val Arg Arg Met Thr Ala His Val Gly Phe Pro		
	180	185
Thr Leu Arg Leu Ile Arg Tyr Ala Met Gly Ser Tyr Thr Leu Asp Ser		
	195	200
Leu Ala Asn Gly Glu Trp Arg Asp Val Thr Pro Lys Glu Asn		
210	215	220

<210> 7057

<211> 429

<212> PRT

<213> Enterobacter cloacae

<400> 7057

Thr Arg Gln Thr Cys Ala Arg His Trp Leu Arg Lys Ala Ser Ala Ala		
1	5	10
Gly Ser Leu Arg Arg Ala Cys Arg Trp Met Ser Leu Gln Asn Leu Thr		
	20	25
Gly Arg Leu Gln Arg Val Ser Met Val Gly Gly Arg Asp Arg Ile Arg		
	35	40
Arg Leu Glu Val Gln Cys Arg Glu Tyr Ser Met Ser Asp Asn Ser Gln		
	50	55
Lys Lys Val Ile Val Gly Met Ser Gly Gly Val Asp Ser Ser Val Ser		
65	70	75
Ala Tyr Leu Leu Gln Gln Gly Tyr Lys Val Glu Gly Leu Phe Met		
	85	90
Lys Asn Trp Glu Glu Asp Asp Gly Glu Glu Tyr Cys Thr Ala Ala Ala		
	100	105
Asp Leu Ala Asp Ala Gln Ala Val Cys Asp Lys Leu Gly Ile Glu Leu		
	115	120
His Thr Val Asn Phe Ala Ala Glu Tyr Trp Asp Asn Val Phe Glu Leu		
	130	135
Phe Leu Glu Glu Tyr Lys Ala Gly Arg Thr Pro Asn Pro Asp Ile Leu		
145	150	155
Cys Asn Lys Glu Ile Lys Phe Lys Ala Phe Leu Glu Phe Ala Ala Glu		
	165	170
Asp Leu Gly Ala Asp Tyr Ile Ala Thr Gly His Tyr Val Arg Arg Ala		
	180	185
Asp Val Asn Gly Lys Ser Gln Leu Leu Arg Gly Leu Asp Gly Asn Lys		
	195	200
Asp Gln Ser Tyr Phe Leu Tyr Thr Leu Ser His Glu Gln Ile Ala Gln		
	210	215
Ser Leu Phe Pro Val Gly Glu Leu Glu Lys Pro Glu Val Arg Lys Ile		
225	230	235
Ala Glu Asp Leu Asp Leu Ile Thr Ala Lys Lys Lys Asp Ser Thr Gly		
	245	250
Ile Cys Phe Ile Gly Glu Arg Lys Phe Arg Glu Phe Leu Gly Arg Tyr		
	260	265
Leu Pro Ala Gln Pro Gly Lys Ile Val Thr Val Asp Gly Asp Glu Ile		
	275	280
Gly Gln His Gln Gly Leu Met Tyr His Thr Leu Gly Gln Arg Lys Gly		
	290	295
Leu Gly Ile Gly Gly Thr Lys Glu Gly Ser Glu Asp Pro Trp Tyr Val		
305	310	315
Val Asp Lys Asp Val Glu Asn Asn Ile Leu Val Val Ala Gln Gly His		
	325	330
Asp His Pro Arg Leu Met Ser Val Gly Leu Ile Ala Gln Gln Leu His		

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<210> 7058
<211> 219
<212> PRT
<213> Enterobacter cloacae
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<210> 7059
<211> 381
<212> PRT
<213> Enterobacter cloacae
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<400> 7059																
Glu	Pro	Ala	Glu	Tyr	Ile	Asn	Met	Asp	Tyr	Gln	Leu	Thr	Leu	Asn	Trp	
1				5					10					15		
Pro	Asp	Phe	Ile	Glu	Arg	Tyr	Trp	Gln	Lys	Arg	Pro	Val	Val	Leu	Lys	
			20					25						30		
Arg	Gly	Ile	Ser	Asn	Phe	Ile	Asp	Pro	Ile	Ser	Pro	Asp	Glu	Leu	Ala	
		35					40					45				
Gly	Leu	Ala	Met	Glu	Asn	Glu	Val	Asp	Ser	Arg	Leu	Val	Ser	His	Gln	
	50					55					60					

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Asp Gly Lys Trp Gln Val Ser His Gly Pro Phe Glu Ser Tyr Asp His
65      70      75      80
Leu Gly Glu Asn Asn Trp Ser Leu Leu Val Gln Ala Val Asn Asn Trp
      85      90      95
His Glu Pro Thr Ala Ala Leu Met Arg Pro Phe Arg Ala Leu Pro Asp
      100      105      110
Trp Arg Met Asp Asp Leu Met Ile Ser Phe Ser Val Pro Gly Gly Gly
      115      120      125
Val Gly Pro His Leu Asp Gln Tyr Asp Val Phe Ile Ile Gln Gly Thr
      130      135      140
Gly Arg Arg Arg Trp Arg Val Gly Glu Lys Val Pro Met Lys Gln His
145      150      155      160
Cys Pro His Pro Asp Leu Leu Gln Val Asp Pro Phe Glu Gly Ile Ile
      165      170      175
Asp Glu Glu Leu Glu Pro Gly Asp Ile Leu Tyr Ile Pro Pro Gly Phe
      180      185      190
Pro His Glu Gly Tyr Ser Leu Glu Asn Ser Leu Asn Tyr Ser Val Gly
      195      200      205
Phe Arg Ala Pro Ser Gly Arg Glu Met Ile Ser Gly Phe Ala Asp Tyr
      210      215      220
Val Leu Gln Arg Glu Leu Gly Ser Tyr Arg Tyr Ser Asp Pro Asp Val
225      230      235      240
Pro Ala Arg Glu His Pro Ala Asp Ile Leu Pro Glu Glu Leu Asp Lys
      245      250      255
Leu Arg Gly Met Met Leu Asp Leu Ile Asn Glu Pro Glu His Phe Arg
      260      265      270
Gln Trp Phe Gly Glu Phe Ile Ser Gln Ser Arg His Glu Leu Asp Val
      275      280      285
Ala Pro Pro Glu Pro Pro Tyr Gln Ala Asp Glu Ile Tyr Asp Ala Leu
      290      295      300
Gln Gln Gly Asp Lys Leu Val Arg Leu Gly Gly Leu Arg Val Leu Arg
305      310      315      320
Ile Gly Glu Glu Val Phe Val Asn Gly Glu Arg Leu Asp Ser Pro His
      325      330      335
Arg Pro Ala Leu Glu Ser Ile Ala Ser Gln Met Val Leu Thr Ala Asp
      340      345      350
Thr Phe Gly Asp Ala Leu Asp Asp Pro Ser Phe Leu Ala Met Leu Ala
      355      360      365
Ala Leu Val Asn Ser Gly Tyr Trp Phe Phe Glu Asp
      370      375      380

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<210> 7060

<211> 475

<212> PRT

<213> Enterobacter cloacae

<400> 7060

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Arg Leu Arg Gln Asn Lys Phe Leu Leu Ile Val Asn Leu Pro Glu Leu
1      5      10      15
Arg Ile Met Glu Leu Ser Ser Leu Thr Ala Val Ser Pro Val Asp Gly
      20      25      30
Arg Tyr Gly Asp Lys Val Ser Ala Leu Arg Gly Ile Phe Ser Glu Tyr
      35      40      45
Gly Leu Leu Lys Phe Arg Val Gln Val Glu Val Arg Trp Leu Gln Lys
      50      55      60
Leu Ala Ala Gln Thr Ala Ile Lys Glu Val Pro Ala Phe Asp Ala Lys
65      70      75      80
Ala Asn Asp Tyr Leu Asp Lys Ile Val Ala Glu Phe Ser Glu Glu Asp
      85      90      95
Ala Ala Arg Ile Lys Thr Ile Glu Arg Thr Thr Asn His Asp Val Lys
      100      105      110

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Ala Val Glu Tyr Phe Leu Lys Glu Lys Val Ala Cys Val Pro Ala Leu
 115 120 125
 His Ala Val Ser Glu Phe Ile His Phe Ala Cys Thr Ser Glu Asp Ile
 130 135 140
 Asn Asn Leu Ser His Ala Leu Met Leu Phe Thr Ala Arg Lys Glu Val
 145 150 155 160
 Val Leu Pro Tyr Trp Arg Lys Ile Ile Asp Ala Val Lys Ala Leu Ser
 165 170 175
 Val Glu Tyr Arg Asp Ile Pro Leu Leu Ser Arg Thr His Gly Gln Pro
 180 185 190
 Ala Thr Pro Ser Thr Met Gly Lys Glu Met Ala Asn Val Ala Tyr Arg
 195 200 205
 Met Glu Arg Gln Tyr Arg Gln Leu Glu Gln Val Glu Ile Leu Gly Lys
 210 215 220
 Ile Asn Gly Ala Val Gly Asn Tyr Asn Ala His Ile Ala Ala Tyr Pro
 225 230 235 240
 Glu Val Asp Trp His Gln Phe Ser Glu Glu Phe Val Thr Ser Leu Gly
 245 250 255
 Ile Gln Trp Asn Pro Tyr Thr Thr Gln Ile Glu Pro His Asp Tyr Ile
 260 265 270
 Ala Glu Leu Phe Asp Cys Ile Ala Arg Phe Asn Thr Ile Leu Ile Asp
 275 280 285
 Phe Asp Arg Asp Val Trp Gly Tyr Ile Ala Leu Asn His Phe Lys Gln
 290 295 300
 Lys Thr Ile Ala Gly Glu Ile Gly Ser Ser Thr Met Pro His Lys Val
 305 310 315 320
 Asn Pro Ile Asp Phe Glu Asn Ser Glu Gly Asn Leu Gly Leu Ala Asn
 325 330 335
 Ala Val Leu Gln His Met Ala Ser Lys Leu Pro Val Ser Arg Trp Gln
 340 345 350
 Arg Asp Leu Thr Asp Ser Thr Val Leu Arg Asn Leu Gly Val Gly Ile
 355 360 365
 Gly Tyr Ala Leu Ile Ala Tyr Gln Ser Thr Leu Lys Gly Val Ser Lys
 370 375 380
 Leu Glu Val Asn Arg Asp Arg Leu Leu Asp Glu Leu Asp His Asn Trp
 385 390 395 400
 Glu Val Leu Ala Glu Pro Ile Gln Thr Val Met Arg Arg Tyr Gly Ile
 405 410 415
 Glu Lys Pro Tyr Glu Lys Leu Lys Glu Leu Thr Arg Gly Lys Arg Val
 420 425 430
 Asp Ala Glu Gly Met Lys Gln Phe Ile Asp Gly Leu Ala Leu Pro Glu
 435 440 445
 Glu Glu Lys Ala Arg Leu Lys Glu Met Thr Pro Ala Asn Tyr Ile Gly
 450 455 460
 Arg Ala Ile Thr Met Val Asp Glu Leu Lys
 465 470 475

<210> 7061

<211> 99

<212> PRT

<213> Enterobacter cloacae

<400> 7061

Arg Arg Arg Leu Leu Ala Gly Leu Gly Gly Asp Glu Ile Leu Val Ala
 1 5 10 15
 Arg Leu Ser His Ser Asp Asp Asp Thr Arg Thr Glu Ile Asn Ala
 20 25 30
 Ile Lys Thr Arg Leu Asn Gly Leu Ile Ala Gly Glu Tyr Gly Leu Gly
 35 40 45
 Asn Ala Thr Ile Leu Tyr Pro Gly Ala Ser Leu Gly Val Val Ile Val
 50 55 60

Asp Pro His Ser Thr Asp Glu Asp Ser Ala Leu Arg Thr Ala Asp Leu
 65 70 75 80
 Ala Met Tyr Gln Asp Lys Lys Gly Lys Ser Lys Thr Gly Phe Val Ala
 85 90 95
 Leu Asp

<210> 7062

<211> 516

<212> PRT

<213> Enterobacter cloacae

<400> 7062

Pro Val Ile Arg Ser Leu His Leu Arg Thr Trp Arg Asp Ser Arg Lys
 1 5 10 15
 Met Lys Lys Ala Ile Ala Val Ala Ile Ile Ser Thr Leu Met Val Val
 20 25 30
 Leu Ser Leu Tyr Ala Val Asn Ala Ile Ile Ala Glu Gln Gln Lys Asn
 35 40 45
 Arg Gln Arg Glu Ile Ser His Thr Leu Leu Ser Tyr Ser Glu Glu Leu
 50 55 60
 Thr Gln Asn Ile Ala Ser Thr Leu Lys Asn Thr Thr Val Gln Gly Cys
 65 70 75 80
 Asp Ser Ala Ser Leu Asn Val Tyr Arg Lys Leu Lys Met Arg Ser Leu
 85 90 95
 Tyr Phe Ala Asp Val Gly Phe Ile Glu Lys Gly Lys Ile Thr Cys Thr
 100 105 110
 Ala Phe Trp Gly Lys Leu Ala Asn Pro Ile Ala Leu Pro Pro Glu Leu
 115 120 125
 His Lys Thr His Asn Gly Phe Ser Leu Ala Gln Phe Ser Gln Lys Asp
 130 135 140
 Phe Phe Ile Gly Asn Ala Thr Ile Tyr Asn His Leu Ile Ile Phe Thr
 145 150 155 160
 Ser Arg Ser Ala Tyr Asp Lys Phe Ala Pro Val Thr Ala Asn Tyr Ser
 165 170 175
 Leu Arg Ser Ser Thr Lys Asp Phe Gly Arg Thr Phe Phe Thr Val Thr
 180 185 190
 Pro Pro Ser Glu Asn Phe Ser Arg Leu Gln Ser Leu Leu Phe Thr Leu
 195 200 205
 Ala Val Thr Glu Cys Ser Thr Arg Trp Asp Leu Cys Val Thr Val Thr
 210 215 220
 His His Asp Ala Gly Leu Ala Ser Leu Ser His Val Val Met Val Leu
 225 230 235 240
 Leu Cys Leu Phe Leu Tyr Phe Ile Trp Val Ser Leu Thr Leu Phe Ser
 245 250 255
 Leu Arg Leu Tyr Glu Asp Arg Arg Ser Leu Glu Arg Thr Leu Val Lys
 260 265 270
 Ala Val Lys Ala Asn Thr Ile Ser Val His Phe Gln Pro Val Ile Arg
 275 280 285
 Val Ala Asp Lys Lys Ile Val Gly Val Glu Val Leu Ser Arg Trp Gln
 290 295 300
 Asp Asn Asn His Lys Glu Val Ser Pro Glu Leu Phe Ile Pro Leu Ile
 305 310 315 320
 Lys Lys Ile Gly Leu Tyr Asn Val Tyr Tyr Gln Asn Met Ile Lys Lys
 325 330 335
 Ser Leu Ala Glu Ile Ala Ala Leu Ala Ala Glu His Gln Leu Met Ile
 340 345 350
 Ser Leu Asn Val Gly Arg Thr Glu Ile Glu Asp Gly Lys Phe Leu Ser
 355 360 365
 Val Leu Arg His Ala Cys Ser Glu Asn Ala Ile Pro Leu Ser Leu Ile
 370 375 380

Lys Val Glu Leu Ser Glu Asn Gly Val Ser Thr Ser Ala Ile Leu Glu
 385 390 395 400
 Glu Phe Cys Glu Glu Leu Lys Ser Ala Gly Val Lys Ile Ser Ile Asp
 405 410 415
 Asp Phe Gly Val Gln Asn Ser Asn Leu Ala Arg Leu Thr Asn Leu Lys
 420 425 430
 Tyr Asp Glu Ile Lys Val Asp Lys Ser Leu Val Asp Gly Ile Ser Glu
 435 440 445
 His Tyr Lys Gln Asp Ile Leu Val Ile Phe Ser Asp Ala Leu Ala Lys
 450 455 460
 Leu Asn Lys Thr Leu Val Phe Glu Gly Val Glu Ser Glu Thr Gln Phe
 465 470 475 480
 Gln Phe Ile Ala Gln Arg Tyr Pro Asp Ala Leu Val Gln Gly Trp Tyr
 485 490 495
 Phe Ser Lys Ser Leu Thr Arg His Asp Leu Ala Arg Leu Leu Ala Asp
 500 505 510
 Ser Ala Arg
 515

<210> 7063
 <211> 161
 <212> PRT
 <213> Enterobacter cloacae

<400> 7063
 Gly Glu Leu Met Phe Lys Pro His Val Thr Val Ala Cys Val Val His
 1 5 10 15
 Ala Gln Gly Lys Phe Leu Val Val Glu Thr Ile Asn Gly Lys Ala
 20 25 30
 Leu Trp Asn Gln Pro Ala Gly His Leu Glu Ala Asn Glu Thr Leu Leu
 35 40 45
 Gln Ala Ala Lys Arg Glu Leu Trp Glu Glu Thr Gly Ile Arg Ala Glu
 50 55 60
 Pro Gln His Phe Ile Arg Met His Gln Trp Ile Ala Pro Asp Gln Thr
 65 70 75 80
 Pro Phe Leu Arg Phe Leu Phe Ala Val Glu Leu Asn Glu Thr Cys Ala
 85 90 95
 Thr Glu Pro His Asp Asp Asp Ile Asp Arg Cys Leu Trp Val Thr Ala
 100 105 110
 Glu Glu Ile Leu Asn Ala Pro Asn Leu Arg Ser Pro Leu Val Ala Glu
 115 120 125
 Ser Ile Arg Cys Trp Gln Ser Thr Ala Arg Leu Pro Leu Asp Val Ile
 130 135 140
 Ala Glu Phe Asn Trp Pro Phe Thr Glu Gly Val Asn Gly Gly Gly Ala
 145 150 155 160

<210> 7064
 <211> 240
 <212> PRT
 <213> Enterobacter cloacae

<400> 7064
 Ile Ile Ser Val Lys Leu Phe Ile Pro Phe Ile Lys Gly Glu Met Met
 1 5 10 15
 Met Arg Val Leu Val Val Glu Asp Asn Ala Leu Leu Arg His His Leu
 20 25 30
 Lys Val Gln Leu Gln Glu Met Val His Gln Val Asp Asp Ala Glu Asp
 35 40 45
 Ala Lys Glu Ala Asp Tyr Tyr Leu Asn Glu His Leu Pro Asp Ile Ala

50		55		60
Ile Val Asp Leu Gly	Leu Pro Asp Glu Asp Gly	Leu Ser Leu Ile Arg		
65	70	75	80	
Arg Trp Arg Ser His	Asp Val Ser Leu Pro Val	Leu Val Leu Thr Ala		
	85	90	95	
Arg Glu Gly Trp Gln	Asp Lys Val Glu Val Leu Ser	Ala Gly Ala Asp		
	100	105	110	
Asp Tyr Val Thr Lys	Pro Phe His Ile Glu Glu Val	Ala Ala Arg Met		
	115	120	125	
Gln Ala Leu Leu Arg	Arg Asn Ser Gly Leu Ala Ser	Gln Val Ile Ser		
	130	135	140	
Leu Pro Pro Phe Gln	Val Asp Leu Ser Arg Arg	Glu Phe Ser Ile Asn		
	145	150	155	
Asp Glu Val Ile Lys	Leu Thr Ala Phe Glu Tyr Thr	Ile Met Glu Thr		
	165	170	175	
Leu Ile Arg Asn Asn	Gly Lys Val Val Ser Lys Asp	Ser Leu Met Leu		
	180	185	190	
Gln Leu Tyr Pro Asp	Ala Glu Leu Arg Glu Ser His	Thr Ile Asp Val		
	195	200	205	
Leu Met Gly Arg Leu	Arg Lys Lys Ile Gln Ala Gln	Tyr Pro His Asp		
	210	215	220	
Val Ile Thr Thr Val	Arg Gly Gln Gly Tyr Leu Phe	Glu Leu Arg		
	225	230	235	240

<210> 7065

<211> 488

<212> PRT

<213> Enterobacter cloacae

<400> 7065

Met Lys Gly Ile Leu	Arg His Ile Leu	Pro Leu Ser Leu	Arg Val Arg
1	5	10	15
Phe Leu Leu Ala Thr	Ala Ala Val Val	Leu Val Leu Ser	Leu Ser Tyr
	20	25	30
Gly Met Val Ala Leu	Val Gly Tyr Ser	Val Ser Phe Asp	Lys Thr Thr
	35	40	45
Phe Arg Leu Leu Arg	Gly Glu Ser Asn	Leu Phe Tyr Thr	Leu Ala Lys
	50	55	60
Trp Glu Asn Asn Arg	Ile Thr Val Glu	Met Pro Glu Asn	Leu Asn Gln
	65	70	75
Gln Ser Pro Thr Leu	Ala Leu Ile Tyr	Asp Glu Lys Gly	Lys Leu Leu
	85	90	95
Trp Ala Gln Arg Asp	Val Pro Trp Leu	Lys Lys Arg Ile	Arg Pro Glu
	100	105	110
Trp Leu Lys Thr Asn	Gly Phe His Glu	Ile Glu Ala Asp	Leu Asn Ser
	115	120	125
Thr Ser Ser Leu Leu	Arg Asp Arg Ala	Leu Gln Ile Lys	Leu Asn
	130	135	140
Glu Ile Arg Ala Glu	Asp Asp Asp Thr	Glu Met Thr His	Ser Val Ala
	145	150	155
Ile Asn Leu Tyr Pro	Ala Thr Leu Asn	Met Pro Gln Leu	Thr Ile Val
	165	170	175
Val Ile Asp Thr Ile	Pro Val Glu Leu	Lys Arg Ser Tyr	Met Val Trp
	180	185	190
Asn Trp Phe Val Tyr	Val Leu Ala Asn	Leu Leu Leu Val	Ile Pro
	195	200	205
Leu Leu Trp Val Ala	Ala Trp Trp Ser	Leu Arg Pro Ile	Glu Ser Leu
	210	215	220
Ala Lys Glu Val Arg	Glu Leu Glu Glu	His His Arg Glu	Lys Leu Asn
	225	230	235
Pro Glu Thr Thr Arg	Glu Leu Thr Ser	Leu Val Arg Asn	Leu Asn Arg

245 250 255
 Leu Leu Lys Ser Glu Arg Glu Arg Tyr Asp Lys Tyr Arg Thr Thr Leu
 260 265 270
 Thr Asp Leu Thr His Ser Leu Lys Thr Pro Leu Ala Val Met Gln Ser
 275 280 285
 Thr Leu Arg Ser Met Arg Ser Ser Lys Met Ser Val Asp Asp Ala Glu
 290 295 300
 Pro Val Ile Leu Glu Gln Ile Ser Arg Ile Ser Gln Gln Ile Gly Tyr
 305 310 315 320
 Tyr Leu His Arg Ala Ser Met Arg Ser Gly Ser Ala Leu Leu Ser Arg
 325 330 335
 Glu Leu His Pro Val Ala Pro Leu Leu Asp Asn Leu Thr Ser Ala Leu
 340 345 350
 Asn Lys Val Tyr Gln Arg Lys Gly Val Asn Ile Ser Leu Asp Ile Ser
 355 360 365
 Pro Glu Ile Ser Phe Val Gly Glu Lys Asn Asp Phe Met Glu Val Met
 370 375 380
 Gly Asn Leu Leu Asp Asn Ala Cys Lys Tyr Cys Leu Glu Phe Val Glu
 385 390 395 400
 Val Ser Ala Arg Val Thr Asp Asn Glu Leu His Ile Ile Val Glu Asp
 405 410 415
 Asp Gly Pro Gly Ile Pro Arg Asn Lys Arg Glu Val Val Phe Asp Arg
 420 425 430
 Gly Gln Arg Ala Asp Thr Leu Arg Pro Gly Gln Gly Val Gly Leu Ser
 435 440 445
 Val Ala Arg Glu Ile Val Asp Gln Tyr Glu Gly Lys Ile Glu Thr Gly
 450 455 460
 Glu Ser Leu Leu Gly Gly Ala Arg Met Glu Val Ile Phe Gly Arg Gln
 465 470 475 480
 His Pro Val Ser Asn Asp Ser
 485

<210> 7066

<211> 477

<212> PRT

<213> Enterobacter cloacae

<400> 7066

Pro Arg Cys Gln Ile Ser Gln Leu Leu Thr Phe Ser Ser Trp Leu Thr
 1 5 10 15
 Leu Phe Thr Glu His Leu Lys Asn Lys Pro Tyr Thr Gly Lys Val Asn
 20 25 30
 Thr Met Thr Glu Ile Ile Thr Arg Lys Glu Lys Ile Ser Tyr Gly Leu
 35 40 45
 Gly Asp Met Ala Ser His Ile Gly Leu Asp Asn Val Ile Ile Phe Leu
 50 55 60
 Thr Phe Tyr Tyr Thr Asp Val Val Gly Leu Pro Ala Ala Phe Val Gly
 65 70 75 80
 Thr Met Phe Leu Leu Ala Arg Thr Ala Asp Ala Ile Ile Asp Pro Ala
 85 90 95
 Met Gly Tyr Ile Ala Asp Arg Thr Arg Thr Arg Trp Gly Lys Phe Arg
 100 105 110
 Pro Trp Met Leu Trp Leu Ala Leu Pro Phe Gly Ala Ser Cys Leu Leu
 115 120 125
 Thr Tyr Ala Val Pro Ala Ser Leu Asp Leu His Gly Lys Met Ile Phe
 130 135 140
 Ala Thr Val Ser Tyr Thr Leu Met Met Leu Met Tyr Thr Ala Ile Asn
 145 150 155 160
 Ile Pro Tyr Cys Ser Met Gly Ala Val Ile Thr Pro Asp Asn Asp Ala
 165 170 175
 Arg Ile Ser Leu Gln Ser Tyr Arg Phe Phe Leu Ala Thr Leu Gly Gly

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<210> 7067
<211> 684
<212> PRT
<213> Enterobacter cloacae
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<400> 7067															
Lys	Asp	Ala	Leu	Ser	Met	Ser	Glu	Leu	Ile	Gln	His	Ser	Asn	Ser	Ile
1				5					10					15	
Glu	Trp	Arg	Phe	Glu	Arg	Gln	Ile	Leu	Arg	Ile	Glu	Pro	Trp	Gly	Glu
			20					25					30		
Asn	Ser	Leu	Arg	Val	Arg	Ala	Thr	Cys	Ser	Pro	Ala	Phe	Glu	Asp	Ala
			35				40					45			
Leu	Gln	Ala	Leu	Leu	Pro	Ala	Ala	Pro	Cys	Gln	Ala	Glu	Ile	Ile	Ala
	50					55					60				
Glu	Ala	Glu	Ser	Leu	Thr	Leu	Arg	Asn	Gly	Asn	Ile	Thr	Ala	Thr	Leu
65					70					75					80
Asn	Leu	Lys	Gly	Gln	Leu	Ala	Phe	Tyr	Asn	Gln	Arg	Gly	Glu	Leu	Leu
				85					90					95	
Leu	Glu	Glu	Met	Trp	Arg	Gln	Arg	Ser	Thr	Val	Gly	Ile	Gly	Ala	Ser
			100					105					110		
Glu	Lys	Ser	Gln	Asp	Lys	Tyr	Val	Ser	Ala	Leu	Lys	Leu	Asp	Gly	Arg
		115					120					125			
Glu	Phe	Lys	Pro	Leu	Met	Gly	Gly	Lys	Tyr	Gln	Leu	Thr	Val	Arg	Phe

130	135	140
Glu Ser Arg Pro Asp	Glu Arg Ile Tyr Gly Met	Gly Gln Tyr Gln Gln
145	150	155
Pro Trp Leu Asp Leu	Lys Gly Cys Thr Leu	Glu Leu Ala Gln Arg Asn
165	170	175
Ser Gln Ala Ser Val	Pro Phe Met Gln Ser	Ser Leu Gly Tyr Gly Leu
180	185	190
Leu Trp Asn Asn Pro	Ala Ile Gly Glu Ala	Ser Phe Ala Lys Asn Gln
195	200	205
Thr Glu Trp Arg Ala	Arg Val Thr Gly Glu	Met Asp Tyr Trp Ile Thr
210	215	220
Ala Ala Asp Thr Val	Ala Asp Ile Thr Arg	Gln Tyr Val Lys Ala Thr
225	230	235
Gly Thr Pro Pro Ala	Ala Pro Ala Phe Ile	Ser Gly Leu Trp Gln Cys
245	250	255
Lys Leu Arg Tyr Arg	Thr Gln Gln Glu Val	Leu Glu Val Ala Arg Glu
260	265	270
Tyr Arg Arg Arg Asn	Leu Pro Leu Ser Val	Met Val Ile Asp Phe Phe
275	280	285
His Trp Pro Asn Gln	Gly Thr Trp Cys Phe	Asp Pro Val Asp Trp Pro
290	295	300
Asp Pro Glu Gly Met	Val Asp Glu Leu Arg	Glu Met Gly Ile Ala Leu
305	310	315
Met Val Ser Val Trp	Pro Thr Val Glu Ala	Arg Ser Pro Leu Tyr Pro
325	330	335
Leu Met Lys Ala Lys	Gly Trp Leu Val Ser	Ser Glu Arg Gly Val Gln
340	345	350
Val Asn Leu Asp Phe	Met Gly Asn Thr Thr	Phe Phe Asp Ala Thr His
355	360	365
Pro Glu Ala Arg Lys	Phe Val Trp Asp Thr	Val Lys Lys Asn Tyr Tyr
370	375	380
Asp Met Gly Ile Lys	Leu Phe Trp Leu Asp	Glu Ala Glu Pro Glu Tyr
385	390	395
Arg Ala Tyr Asp Phe	Asp Asn Tyr Arg Tyr	His Ala Gly Pro Val Leu
405	410	415
Glu Val Gly Asn Arg	Tyr Pro Arg Asp Phe	Ala Gln Gly Phe Tyr Asp
420	425	430
Gly Leu Gln Ala Asn	Gly Glu Thr Asp Ile	Val Asn Leu Val Arg Cys
435	440	445
Ala Trp Ala Gly Ser	Gln Arg Phe Gly Val	Leu Ala Trp Ser Gly Asp
450	455	460
Val His Ser Ser Phe	His Ala Phe Arg Asn	Gln Leu Ala Ala Gly Leu
465	470	475
Asn Met Gly Leu Ala	Gly Ile Pro Trp Trp	Thr Thr Asp Ile Gly Gly
485	490	495
Phe Gln Gly Gly Asn	Val Asn Asp Pro Ala	Phe His Glu Leu Leu Ile
500	505	510
Arg Trp Phe Gln Trp	Ala Val Phe Thr Pro	Val Leu Arg Met His Gly
515	520	525
Tyr Arg Glu Pro Gln	Ile Gln Pro Pro Glu	Arg Tyr Arg Asp Gly Ile
530	535	540
Pro Gln Cys Asn Ser	Gly Ser Pro Asn Glu	Leu Trp Ser Tyr Gly Glu
545	550	555
Glu Asn Tyr Ala Ile	Met Gln Arg Trp Leu	Thr Val Arg Glu Thr Leu
565	570	575
Arg Pro Tyr Ile Asp	Ala Leu Tyr Gln Gln	Ala His Leu His Gly Asp
580	585	590
Pro Leu Met Arg Pro	Leu Phe Trp His Tyr	Pro Gln Asp Lys Gln Ser
595	600	605
Trp Ala Cys Glu Asp	Gln Tyr Leu Phe Gly	Glu Asp Leu Leu Val Ala
610	615	620

Pro Val Met Gln Ala Gly Gln Arg Glu Arg Asp Val Trp Leu Pro Thr
 625 630 635 640
 Gly Asn Ser Trp Val Ala Leu Asn Gly Glu Arg Tyr Ala Gly Gly Glu
 645 650 655
 His Ile Arg Val Pro Ala Ala Leu Glu Thr Ile Pro Val Phe Ile Arg
 660 665 670
 Glu Gly Ser Pro Leu Ile Gln Gln Leu Val Asp
 675 680

<210> 7068

<211> 137

<212> PRT

<213> Enterobacter cloacae

<400> 7068

Ile Gly Trp Ile Lys Ala Gly Cys Tyr Ser Val Leu Ala Glu Arg Arg
 1 5 10 15
 Thr Ala Gly Gly Lys Arg Met Ile Gln Cys Lys Arg Val Tyr Glu Gln
 20 25 30
 Ala Thr Ser Asp Asp Gly Tyr Arg Val Leu Val Asp Arg Leu Trp Pro
 35 40 45
 Arg Gly Ile Lys Lys Thr Asp Leu Ala Cys Asp Glu Trp Cys Lys Ser
 50 55 60
 Leu Thr Pro Ser Ser Glu Leu Arg Lys Ala Phe His Ser Glu Thr Ile
 65 70 75 80
 Asp Phe Thr Ala Phe Ser Glu Ala Tyr Arg Lys Glu Leu Ala Gln His
 85 90 95
 Gln Asp Glu Gly Lys Arg Leu Ala Ala Leu Ala Arg Gln Gln Thr Val
 100 105 110
 Thr Leu Leu Tyr Gly Ala Lys Asn Arg Glu Gln Asn His Ala Arg Val
 115 120 125
 Leu Ala Asp Trp Leu Arg Lys Leu
 130 135

<210> 7069

<211> 93

<212> PRT

<213> Enterobacter cloacae

<400> 7069

Ser Gly Glu Lys Arg Met Gly Gln Leu Val Thr Leu His Glu Trp Ala
 1 5 10 15
 Ser Gly Pro Asn Gly Phe Lys Tyr Pro Leu Ser Asn Ser Ala Leu Asn
 20 25 30
 Lys Ile Ala Lys Thr Lys Gln Thr Tyr Pro Pro Ala Leu Lys Gln Gly
 35 40 45
 Arg Arg Trp Val Ile Asp Glu Asp Ala Arg Phe Val Gly Met Val Gly
 50 55 60
 Ser Val Asp Ile Ser Ser Ser Leu Ser Asp Lys Ala Arg Gln Leu Val
 65 70 75 80
 Glu Lys Ala Ile Asn Gly Ser Ser Pro Gln Lys Thr
 85 90

<210> 7070

<211> 171

<212> PRT

<213> Enterobacter cloacae

<400> 7070

Ser Leu Pro Ala Asp Ala Phe Ala Arg Lys Val Ser Arg Leu Thr Ile
 1 5 10 15

Phe Gly Lys Asp Pro Val Met Phe Asp Pro Thr Leu Leu Ile Leu Leu
 20 25 30
 Ala Leu Ala Ala Leu Gly Phe Val Ser His Asn Thr Thr Val Ala Ile
 35 40 45
 Ser Ile Leu Val Leu Ile Ile Val Arg Val Thr Pro Leu Asn Thr Phe
 50 55 60
 Phe Pro Trp Ile Glu Lys Gln Gly Leu Thr Ile Gly Ile Ile Ile Leu
 65 70 75 80
 Thr Ile Gly Val Met Ala Pro Ile Ala Ser Gly Thr Leu Pro Ala Ser
 85 90 95
 Thr Leu Leu His Ser Phe Val Asn Trp Lys Ser Leu Val Ala Ile Ala
 100 105 110
 Val Gly Val Phe Val Ser Trp Leu Gly Gly Arg Gly Val Thr Leu Met
 115 120 125
 Ser Ser Gln Pro Ser Leu Val Ala Gly Leu Leu Val Gly Thr Val Leu
 130 135 140
 Gly Val Ala Leu Phe Arg Gly Val Pro Val Gly Pro Leu Ile Ala Ala
 145 150 155 160
 Gly Leu Val Ser Leu Phe Ile Gly Lys Ser
 165 170

<210> 7071

<211> 237

<212> PRT

<213> Enterobacter cloacae

<400> 7071

Pro Leu Pro His Pro Leu Ser Glu Glu Ser Ile Lys Leu Ile Leu Phe
 1 5 10 15
 Met Phe Tyr Tyr Asp Arg Ser Leu Asn Phe Gln His Asn Met Gln Ile
 20 25 30
 Gln Arg Ser Ser Ala Trp Glu Ser Thr Cys Leu Met Ser Asp Ile Ile
 35 40 45
 Leu Ala Arg Val Ser Glu Thr Leu Ser Thr Glu Gln Ser Leu Asp Ser
 50 55 60
 Leu Val Arg Gln Leu Leu Glu Met Leu Glu Ile Val Thr Asp Met Glu
 65 70 75 80
 Ser Thr Tyr Leu Thr Lys Ile Asp Ile Asn Ala Arg Leu Gln His Ile
 85 90 95
 Leu Tyr Ala Arg Asn Ser Lys Gln Met Gln Ile Pro Glu Gly Phe Ser
 100 105 110
 Val Pro Trp Asp Glu Thr Leu Cys Lys Arg Ala Met Asp Ser Asp Thr
 115 120 125
 Leu Phe Ser Asn Glu Val Pro Asp Arg Trp Pro Glu Cys Glu Ala Ala
 130 135 140
 Lys Ala Leu Gly Ile Thr Thr Tyr Met Ser Val Pro Val His Leu Ala
 145 150 155 160
 Asp Gly Ser Leu Tyr Gly Thr Leu Cys Ala Ala Ser Thr Ala Gln Lys
 165 170 175
 Gln Phe Ser Glu Arg Gly Glu Gln Val Ile Arg Leu Phe Ala Gly Leu
 180 185 190
 Ile Gly Gln Tyr Ile Gln Lys Glu Ser Leu Val Leu Gln Leu Arg Glu
 195 200 205
 Ala Asn Ala Ala Leu Ile Thr His Ser Tyr Thr Asp Ala Leu Thr Gly
 210 215 220
 Leu Pro Asn Arg Arg Ala Ile Phe Glu Asn Leu Thr Thr
 225 230 235

<210> 7072

<211> 381

<212> PRT

<213> Enterobacter cloacae

<400> 7072

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Met Ala Ala Arg Pro Arg Lys His Asn Val Lys Ile Pro Asn Leu Tyr
1      5      10      15
Cys Lys Leu Asp Lys Arg Thr Ser Lys Ile Tyr Trp Gln Tyr Arg His
20      25      30
Pro Val Thr Gly Ser Phe Ile Gly Phe Gly Thr Asp Asp Glu Ala Ala
35      40      45
Lys Ala Ala Ala Ile Glu Met Asn Arg Ile Thr Ala Glu Gln Glu Thr
50      55      60
Gln Gln Ser Tyr Ala Leu Ile Asp Met Ala Met Lys Ser Ser Gly Lys
65      70      75      80
Lys Asp Gln Asp Ile Arg Val Ser Glu Trp Ile Lys Lys Tyr Ile Glu
85      90      95
Ile Gln Met Glu Arg Leu Arg Asp Gly Glu Ile Lys Asn Pro Thr Val
100     105     110
Lys Ser Arg Arg Leu Cys Ser Gln Ile Leu Ala Asp Arg Val Pro Asn
115     120     125
Leu Arg Leu Lys Asp Val Asp Thr Arg Leu Ile Ala Lys Ile Ile Asp
130     135     140
Glu Tyr Lys Ala Glu Gly Lys His Arg Met Gly Gln Leu Ile Arg Ser
145     150     155     160
Val Leu Asn Asp Val Phe Lys Glu Ala Gln His Ala Gly Glu Val Asp
165     170     175
Pro Gly Tyr Asn Pro Ala Leu Ala Val Lys Asn Pro Ile Ala Lys Val
180     185     190
Lys Arg Ser Arg Leu Ser Ile Glu Gln Trp Lys Leu Ile Phe Glu Ser
195     200     205
Ala Gly Ser Leu Pro Pro Cys Ala Gln Asn Ser Met Leu Leu Ala Leu
210     215     220
Val Thr Gly Gln Arg Ile Gly Asp Ile Val Glu Met Lys Phe Ser Asp
225     230     235     240
Ile Trp Asp Asn His Leu His Val Thr Gln Asn Lys Thr Gly Met Lys
245     250     255
Leu Ala Ile Pro Leu Asn Leu Arg Cys Asp Ala Ile Gly Leu Thr Leu
260     265     270
Ala Asp Val Ile Ser Lys Cys Arg Asp Arg Val Val Ser Pro Tyr Leu
275     280     285
Ile His His Val Lys His His Ala Tyr Gly Lys Ala Gly Ser His Val
290     295     300
Pro Glu Lys Thr Ile Ser Arg Tyr Phe Lys Glu Ala Arg Asp Lys Ala
305     310     315     320
Asn Ile Thr Trp Pro Lys Asp Cys Thr Ala Leu Pro Pro Phe His Glu
325     330     335
Gln Arg Ser Leu Ser Ser Arg Thr Tyr Lys Ala Gln Gly Ile Asp Val
340     345     350
Lys Thr Leu Leu Gly His Lys Thr Glu Ala Met Ser Val Met Tyr Gly
355     360     365
Asp Asp Arg Gly Leu Glu Trp Lys Lys Val Val Ile
370     375     380

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<210> 7073

<211> 179

<212> PRT

<213> Enterobacter cloacae

<400> 7073

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Gln Ala Thr Tyr Trp Gln Ile Thr Gly Glu Ile Val Met Ser Asp Asp
1      5      10      15
Val Thr Gly Thr Thr Thr His Gln Arg Leu Ile Ser Leu Leu Thr Glu

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20 25 30
 Gln Glu Ala Arg Phe Arg Val Val Ala His Glu Ala Val Gly Lys Cys
 35 40 45
 Glu Ala Val Ser Glu Ile Arg Gly Thr Asp Leu Arg Gln Gly Ala Lys
 50 55 60
 Ala Leu Val Cys Lys Val Lys Gly Asn Gly Val Lys Lys His Ile Leu
 65 70 75 80
 Ala Ile Leu Ala Ala Asp Arg Gln Ala Asp Leu Ser Leu Leu Ala Ser
 85 90 95
 His Phe Gly Gly Leu Lys Ala Ser Leu Ala Ser Pro Ala Glu Val Asp
 100 105 110
 Ala Leu Thr Gly Cys Val Phe Gly Ala Ile Pro Pro Phe Ser Phe His
 115 120 125
 Pro Asp Leu Thr Leu Val Ala Asp Pro Leu Leu Phe Glu Arg Phe Asp
 130 135 140
 Glu Ile Ala Phe Asn Ala Gly Leu Leu Glu Lys Ser Val Ile Met Asp
 145 150 155 160
 Thr Gln Asp Tyr Leu Arg Ile Ala Arg Pro Glu Leu Val Thr Phe Arg
 165 170 175
 Lys Gln

<210> 7074

<211> 399

<212> PRT

<213> Enterobacter cloacae

<400> 7074

Glu Thr Ile Met Thr Thr Ala Ile Gln Pro Ser Gly Lys Gln Gly Ala
 1 5 10 15
 Leu Leu Val Ala Gly Ile Leu Met Ile Ala Thr Thr Leu Arg Val Thr
 20 25 30
 Phe Thr Gly Val Ala Pro Leu Leu Asp Thr Ile Arg Gln Asp Tyr Gly
 35 40 45
 Leu Ser Thr Ala Gln Thr Gly Leu Leu Thr Thr Leu Pro Leu Leu Ala
 50 55 60
 Phe Ala Phe Ile Ser Pro Leu Ala Ala Gly Val Ala Arg Arg Leu Gly
 65 70 75 80
 Met Glu Arg Ser Leu Phe Ile Ala Leu Leu Leu Ile Cys Ile Gly Ile
 85 90 95
 Gly Val Arg Ser Leu Pro Ser Ala Ala Leu Leu Phe Ile Gly Thr Ala
 100 105 110
 Ile Val Gly Cys Gly Ile Ala Leu Gly Asn Val Leu Leu Pro Gly Leu
 115 120 125
 Ile Lys Arg Asp Phe Pro Gly Gln Val Ala Lys Leu Thr Gly Ala Tyr
 130 135 140
 Ser Leu Thr Met Gly Ala Ala Ala Ala Gly Ser Ala Leu Ile Val
 145 150 155 160
 Pro Leu Ser Leu Gly Ser Gly Gly Trp His Gly Ala Leu Leu Met Leu
 165 170 175
 Met Phe Phe Pro Leu Val Ala Leu Leu Leu Trp Leu Pro Gln Trp Arg
 180 185 190
 Gln Arg Pro Ala Ala Thr Leu Thr Gly Ala Gly Ala Leu His Asn Arg
 195 200 205
 Ala Ile Trp Arg Ser Ala Leu Ala Trp Gln Val Thr Leu Phe Met Gly
 210 215 220
 Ile Asn Ser Leu Ile Tyr Tyr Val Ile Ile Gly Trp Leu Pro Ala Ile
 225 230 235 240
 Leu Leu Ser His Gly Tyr Ser Glu Thr Gln Ala Gly Ser Met His Gly
 245 250 255
 Leu Leu Gln Leu Ala Thr Ala Val Pro Gly Leu Ala Ile Pro Leu Ile

	260		265		270										
Leu	His	Arg	Leu	Asn	Asp	Gln	Arg	Gly	Ile	Ala	Gly	Leu	Val	Ala	Leu
	275						280					285			
Met	Cys	Ala	Val	Ser	Ala	Ala	Gly	Phe	Trp	Phe	Ala	Pro	Gly	Leu	Ala
	290					295					300				
Val	Val	Trp	Thr	Leu	Val	Phe	Gly	Phe	Gly	Ser	Gly	Ala	Thr	Met	Ile
305					310					315				320	
Leu	Gly	Leu	Thr	Phe	Ile	Gly	Leu	Arg	Ala	Ser	Ser	Ala	His	Gln	Ala
				325					330					335	
Ala	Ala	Leu	Ser	Gly	Met	Ala	Gln	Ser	Ile	Gly	Tyr	Leu	Leu	Ala	Ala
			340					345					350		
Cys	Gly	Pro	Pro	Leu	Met	Gly	Lys	Ile	His	Asp	Thr	Ala	Gly	Asp	Trp
	355						360					365			
Arg	Ile	Pro	Leu	Leu	Ala	Cys	Ala	Leu	Ala	Ala	Val	Val	Met	Ala	Leu
	370					375					380				
Cys	Gly	Met	Leu	Ala	Gly	Arg	Asp	Arg	Glu	Ile	Thr	Pro	Arg		
385					390				395						

<210> 7075

<211> 251

<212> PRT

<213> Enterobacter cloacae

<400> 7075

Gly	Ser	Leu	Cys	Tyr	Leu	Lys	Ile	Leu	Arg	His	Lys	Glu	Ser	Leu	Met
1			5					10						15	
Glu	Leu	Ser	Pro	Val	Lys	Thr	Thr	Leu	Arg	Ile	Ala	Leu	Val	Gly	Asp
			20					25					30		
Phe	Asn	Pro	Asp	Val	Ile	Ala	His	Gln	Ala	Ile	Pro	Leu	Ala	Ile	Asp
		35					40				45				
Asp	Ala	Ala	Ala	Val	Leu	Asp	Leu	Thr	Ala	Asp	Tyr	Asp	Trp	Leu	Ala
	50					55				60					
Thr	Pro	Glu	Leu	Thr	Ser	Pro	Glu	Asp	Leu	Val	Gly	Tyr	Asp	Ala	Ile
65					70					75				80	
Trp	Leu	Val	Pro	Ala	Ser	Pro	Tyr	Lys	Asn	Thr	Glu	Ala	Ala	Phe	Ile
			85					90						95	
Ala	Ala	Arg	Tyr	Ala	Arg	Glu	Asn	Ser	Ile	Pro	Phe	Leu	Gly	Thr	Cys
			100					105					110		
Gly	Gly	Phe	Gln	His	Ala	Leu	Ile	Glu	Tyr	Ala	Arg	Asn	Val	Leu	Gly
		115					120					125			
Trp	His	Asp	Ala	Gly	His	Ala	Glu	Thr	Asp	Thr	Glu	Gly	Arg	Met	Val
	130					135				140					
Ile	Ala	Pro	Leu	Thr	Cys	Ser	Leu	Val	Glu	Lys	Thr	Asp	Ala	Ile	Glu
145					150					155				160	
Leu	Arg	Asn	Asn	Thr	Leu	Ile	Ala	Lys	Ala	Tyr	Gly	Lys	Pro	Glu	Ile
			165					170						175	
Gln	Glu	Gly	Tyr	His	Cys	Asn	Tyr	Gly	Val	Ser	Ser	Glu	Phe	Ala	Ser
			180					185					190		
Gln	Leu	Glu	Arg	Gly	Asp	Met	Arg	Val	Thr	Gly	Trp	Asp	Glu	Gln	Gly
		195					200					205			
Glu	Ile	Arg	Ala	Ala	Glu	Leu	Ile	Thr	His	Pro	Phe	Phe	Val	Ile	Thr
	210					215					220				
Leu	Phe	Gln	His	Glu	Arg	Ala	Ala	Leu	Gln	Gly	Arg	Pro	Val	Val	Leu
225					230					235					240
Val	Gln	Ala	Met	Leu	Arg	Ala	Ala	Gln	Gly						
			245					250							

<210> 7076

<211> 89

<212> PRT

<213> Enterobacter cloacae

<400> 7076

Arg Ile Met Ile Met Lys Tyr Leu Leu Leu Ala Leu Val Val Pro Leu
 1 5 10 15
 Ala Ala Cys Ser Thr Lys Thr Thr Pro Pro Asp Ala Pro Gln Pro Pro
 20 25 30
 His Ala Ile Gly Met Ala Asn Pro Ala Ser Val Tyr Cys Leu Glu Lys
 35 40 45
 Gly Gly Glu Gln Ile Pro Val Gln Ser Pro Gln Gly Val Arg Thr Glu
 50 55 60
 Cys Lys Leu Pro Gly Gly Glu Val Ile Asp Glu Trp Asp Leu Tyr Arg
 65 70 75 80
 Arg Asp His Pro Gln Pro Thr Arg
 85

<210> 7077

<211> 275

<212> PRT

<213> Enterobacter cloacae

<400> 7077

Asn Asp Ser Leu Ser Leu Ile Ser Asp Asn Phe Met Tyr Gly Leu Gly
 1 5 10 15
 Leu Asp Gly Tyr Asp Pro Asp Ser Gln His Asp Ala Ala Val Ala Phe
 20 25 30
 Arg Ile Arg Val Val Ala Gln Glu Gln Phe Ile Pro Leu His Gln His
 35 40 45
 Arg Lys Gly Gln Leu Ile Met Ala Leu Gly Gly Ala Ile Thr Cys Glu
 50 55 60
 Val Glu Ser Ala Met Leu Met Val Pro Pro Gln Tyr Ala Val Trp Ile
 65 70 75 80
 Pro Gly Gln Thr Pro His Ser Asn Lys Ala Thr Pro Gly Ala Gln Leu
 85 90 95
 Cys Leu Leu Phe Ile Glu Pro Gly Ala Leu Glu Leu Pro Thr Arg Thr
 100 105 110
 Cys Thr Leu Lys Ile Ser Pro Leu Val Arg Glu Leu Val Leu Ala Leu
 115 120 125
 Ala Asp Arg Ser Arg Glu Glu Leu Pro Leu Pro Ala Thr Gly Arg Leu
 130 135 140
 Val Asp Val Leu Phe Asp Glu Leu Pro Leu Gln Pro Gln Glu His Leu
 145 150 155 160
 Gln Leu Pro Val Ser Pro His Pro Lys Ile Arg Leu Met Ser Glu Thr
 165 170 175
 Met Ala Asn Glu Pro Ala Ala Trp Gln Thr Leu Ala Gln Trp Ala Ser
 180 185 190
 His Phe Ala Met Ser Glu Arg Asn Leu Ala Arg Leu Val Val Lys Glu
 195 200 205
 Thr Gly Leu Ser Phe Arg Arg Trp Arg His Gln Leu Gln Leu Ile Val
 210 215 220
 Ala Leu Gln Phe Leu Ile Gly Gly Lys Ser Val Gln Gln Ala Ala Gln
 225 230 235 240
 Ala Leu Gly Tyr Asp Ser Thr Thr Ala Phe Ile Thr Met Phe Lys Lys
 245 250 255
 Gly Leu Gly Gln Thr Pro Ala Arg Tyr Ile Ala Ser Leu Thr Thr Thr
 260 265 270
 Ser Arg
 275

<210> 7078

<211> 189

<212> PRT

<213> Enterobacter cloacae

<400> 7078

```

Thr Gln Arg Pro Ala Asp Cys Thr Phe Thr Asn His Ala Phe Asp Ser
1      5      10      15
Leu Ile Pro Ser Leu Lys Phe Lys Lys Tyr Asp Ala Val Ile Ser Gly
20      25      30
Met Asp Ile Thr Pro Glu Arg Ser Lys Gln Val Ala Phe Thr Asp Pro
35      40      45
Tyr Tyr Ala Asn Ser Ala Val Ile Ala Lys Lys Gly Ala Tyr Lys
50      55      60
Ser Phe Asp Glu Leu Lys Gly Lys Arg Ile Gly Met Glu Asn Gly Thr
65      70      75      80
Thr His Gln Lys Tyr Leu Gln Asp Lys His Pro Glu Val Lys Thr Val
85      90      95
Ala Tyr Asp Ser Tyr Gln Asn Ala Ile Ile Asp Leu Lys Asn Gly Arg
100     105     110
Ile Asp Gly Val Phe Gly Asp Thr Ala Val Val Asn Glu Trp Leu Lys
115     120     125
Thr Asn Pro Gln Leu Gly Thr Ala Thr Glu Lys Val Thr Asp Pro Gln
130     135     140
Tyr Phe Gly Thr Gly Leu Gly Ile Ala Val Arg Pro Asp Asn Lys Ala
145     150     155     160
Leu Leu Glu Lys Leu Asn Gly Ala Leu Lys Ala Ile Lys Ala Asp Gly
165     170     175
Thr Tyr Gln Lys Ile Ser Glu Gln Trp Phe Pro Gln
180     185

```

<210> 7079

<211> 111

<212> PRT

<213> Enterobacter cloacae

<400> 7079

```

Arg Gln Val Ile Val His Tyr Arg Cys Tyr Ser Pro Ser Gly Leu Phe
1      5      10      15
Phe Glu Glu Arg Glu Met Phe Ala Val Ile Phe Gly Arg Pro Gly Cys
20      25      30
Pro Tyr Cys Val Arg Ala Lys Glu Leu Ala Glu Lys Leu Thr Glu Glu
35      40      45
Arg Asp Asp Phe Asn Phe Arg Tyr Val Asp Ile His Ala Glu Gly Ile
50      55      60
Thr Lys Ala Asp Leu Glu Lys Thr Val Gly Lys Pro Val Glu Thr Val
65      70      75      80
Pro Gln Ile Phe Leu Asp Gln Lys His Ile Gly Gly Cys Thr Asp Phe
85      90      95
Glu Ala Tyr Ala Lys Glu His Leu Gly Leu Phe Ala Ala Gln
100     105     110

```

<210> 7080

<211> 294

<212> PRT

<213> Enterobacter cloacae

<400> 7080

```

Leu Arg Ile Pro Val Asn Tyr Ile Asp Gln Phe Ile Asn Phe Val Ser
1      5      10      15
Thr Leu Tyr Thr Pro Arg Arg Ala Cys Thr Thr Leu Phe Met Ile Cys
20      25      30
Gly Gly Val Leu Ser Leu Cys Lys Ile Leu Pro Leu Leu His Leu Trp
35      40      45

```

Leu Thr Thr Ala Ile Lys Pro Ile Ala Gln Asn Tyr Glu Thr Tyr Ile
 50 55 60
 Leu Leu Ile Ser Leu Val Ile Gly Val Ser Leu Gly Ile Val Val Phe
 65 70 75 80
 Ser Ile Val Asp Leu Ile Val Leu Thr Ile Tyr Glu His Leu Ile Ser
 85 90 95
 Lys Lys Lys Lys Ser Gln Ser Glu Leu Lys Ala Ile Lys Glu Lys Asn
 100 105 110
 Ile Arg Asp Glu Val Ile Phe Ser Asn Phe Lys Thr Ala Tyr Phe His
 115 120 125
 Leu Ser Ile Asp Lys Ile Asn Ile Ile Arg Ser Leu Ile Thr Phe Pro
 130 135 140
 Ser Leu Ser Phe His Ser Glu His Glu Asp Val Lys Phe Leu Glu Lys
 145 150 155 160
 Ser Gly Trp Ile Glu Ala Leu Thr Tyr Ile Ser Asp Glu Glu Lys Val
 165 170 175
 Tyr Gln Leu Asn Gln Thr Ile Arg Leu Tyr Ala Asp Asp Arg Trp Asn
 180 185 190
 Glu Glu Val Asn Phe Asn Thr Asp His Phe His Ser Phe Asp Ala Glu
 195 200 205
 Thr Ala Ile Ser Ile Ile Asn Ala Met Ser Asp Val Lys Ile Lys Ala
 210 215 220
 Glu Leu Asp Glu Phe Asn Phe Ser Phe Tyr Lys Ser Asp Ile Glu Lys
 225 230 235 240
 Cys Phe Glu Val Ser Glu Phe Thr Glu Thr Leu Tyr Ser Leu Arg Phe
 245 250 255
 Lys Glu Arg Tyr Glu Lys Lys Phe Ser Glu Leu His Leu Lys Pro Phe
 260 265 270
 Arg Ser Glu Arg Leu Phe Ser Ile Lys Val Arg Glu Asn Ile Pro Asp
 275 280 285
 Leu Asp Ile Pro Phe
 290

<210> 7081

<211> 601

<212> PRT

<213> Enterobacter cloacae

<400> 7081

Cys Leu Gly Tyr Leu Ser Gly Ser Arg Glu Met Gln Ser Asp Ser Leu
 1 5 10 15
 Thr Leu Lys Thr Val Ala Gln Ile Val Leu Ser Phe Asn Asn Leu Leu
 20 25 30
 Val Asn Lys Lys Leu Ala Ser Val Asn Ile Asn Val Ala Asp Leu Leu
 35 40 45
 Asn Gly Asn Tyr Ile Leu Leu Phe Val Val Leu Ala Leu Gly Leu
 50 55 60
 Cys Leu Gly Lys Leu Arg Leu Gly Ser Val Gln Leu Gly Asn Ser Ile
 65 70 75 80
 Gly Val Leu Val Val Ser Leu Leu Leu Gly Gln Gln His Phe Ser Ile
 85 90 95
 Asn Thr Asp Ala Leu Asn Leu Gly Phe Met Leu Phe Ile Phe Cys Val
 100 105 110
 Gly Val Glu Ala Gly Pro Asn Phe Ser Ile Phe Phe Arg Asp Gly
 115 120 125
 Lys Asn Tyr Leu Met Leu Ala Leu Val Met Val Gly Ser Ala Leu Leu
 130 135 140
 Ile Ala Leu Gly Leu Gly Lys Leu Phe Gly Trp Asp Ile Gly Leu Thr
 145 150 155 160
 Ala Gly Met Leu Ala Gly Ser Met Thr Ser Thr Pro Val Leu Val Gly
 165 170 175

Ala Gly Asp Thr Leu Arg His Ser Gly Met Ala Gly Thr Pro Leu Ser
 180 185 190
 Ser Ala Leu Asp Asn Leu Ser Leu Gly Tyr Ala Leu Thr Tyr Leu Ile
 195 200 205
 Gly Leu Val Ser Leu Ile Val Gly Ala Arg Tyr Leu Pro Lys Leu Gln
 210 215 220
 His Gln Asp Leu Gln Thr Ser Ala Gln Thr Ile Ala Arg Glu Arg Gly
 225 230 235 240
 Leu Asp Thr Asp Ser Lys Arg Lys Val Tyr Leu Pro Val Ile Arg Ala
 245 250 255
 Tyr Arg Val Gly Pro Glu Leu Val Ala Trp Thr Asp Gly Lys Asn Leu
 260 265 270
 Arg Glu Leu Gly Ile Tyr Arg Gln Thr Gly Cys Tyr Ile Glu Arg Ile
 275 280 285
 Arg Arg Asn Gly Ile Leu Ala Asn Pro Asp Gly Asp Ala Val Leu Gln
 290 295 300
 Met Gly Asp Asp Ile Ala Leu Val Gly Tyr Pro Asp Ala His Ala Arg
 305 310 315 320
 Leu Asp Pro Ser Phe Arg Asn Gly Lys Glu Val Phe Asp Arg Asp Leu
 325 330 335
 Leu Asp Met Arg Ile Val Thr Glu Glu Ile Val Val Lys Asn His Asn
 340 345 350
 Ala Val Gly Arg Arg Leu Ala Gln Leu Lys Leu Thr Asp His Gly Cys
 355 360 365
 Phe Leu Asn Arg Val Ile Arg Ser Gln Ile Glu Met Pro Ile Asp Asp
 370 375 380
 Asn Val Val Leu Asn Lys Gly Asp Val Leu Gln Val Ser Gly Asp Ala
 385 390 395 400
 Arg Arg Val Lys Thr Val Ala Asp Arg Ile Gly Phe Ile Ser Ile His
 405 410 415
 Ser Gln Val Thr Asp Leu Leu Ala Phe Cys Ala Phe Phe Ile Val Gly
 420 425 430
 Leu Met Ile Gly Met Ile Thr Phe Gln Phe Ser Asn Phe Ser Phe Gly
 435 440 445
 Ile Gly Asn Ala Ala Gly Leu Leu Phe Ala Gly Ile Met Leu Gly Phe
 450 455 460
 Leu Arg Ala Asn His Pro Thr Phe Gly Tyr Ile Pro Gln Gly Ala Leu
 465 470 475 480
 Asn Met Val Lys Glu Phe Gly Leu Met Val Phe Met Ala Gly Val Gly
 485 490 495
 Leu Ser Ala Gly Ser Gly Ile Gly Asn Gly Leu Gly Ala Val Gly Trp
 500 505 510
 Gln Met Leu Val Ser Gly Leu Ile Val Ser Leu Val Pro Val Val Ile
 515 520 525
 Cys Phe Leu Phe Gly Ala Tyr Val Leu Arg Met Asn Arg Ala Leu Leu
 530 535 540
 Phe Gly Ala Met Met Gly Ala Arg Thr Cys Ala Pro Ala Met Glu Ile
 545 550 555 560
 Ile Ser Asp Thr Ala Arg Ser Asn Ile Pro Ala Leu Gly Tyr Ala Gly
 565 570 575
 Thr Tyr Ala Ile Ala Asn Val Leu Leu Thr Leu Ala Gly Thr Leu Ile
 580 585 590
 Ile Ile Ile Trp Pro Gly Leu Gly
 595 600

<210> 7082

<211> 160

<212> PRT

<213> Enterobacter cloacae

<400> 7082

```

Pro Lys Val Gly Trp Phe Ala Arg Arg Lys Pro Ser Met Ile Pro Ala
1      5      10      15
Asn Ser Arg Pro Ala Ala Leu Pro Met Pro Lys Leu Lys Leu Asn
20      25      30
Trp Lys Val Ile Ile Pro Ile Ile Arg Pro Thr Met Lys Lys Ala Gln
35      40      45
Lys Ala Asn Arg Ser Val Thr Trp Leu Trp Ile Glu Ile Lys Pro Ile
50      55      60
Arg Ser Ala Thr Val Leu Thr Arg Arg Ala Ser Pro Leu Thr Cys Asn
65      70      75      80
Thr Ser Pro Leu Leu Ser Thr Thr Leu Ser Ser Ile Gly Ile Ser Ile
85      90      95
Trp Leu Arg Ile Thr Arg Leu Arg Lys Gln Pro Trp Ser Val Ser Phe
100     105     110
Ser Cys Ala Arg Arg Arg Pro Thr Ala Leu Trp Phe Phe Thr Thr Ile
115     120     125
Ser Ser Val Thr Ile Arg Met Ser Ser Arg Ser Arg Ser Asn Thr Ser
130     135     140
Phe Pro Leu Arg Lys Leu Gly Ser Arg Arg Ala Trp Ala Ser Gly
145     150     155     160

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<210> 7083

<211> 176

<212> PRT

<213> Enterobacter cloacae

<400> 7083

```

Gln Ser Val Ser Leu Ile Val Ile Ala Thr Asp Ser His Leu Leu Ser
1      5      10      15
His Asp Phe Cys Ala Cys Phe Gly Lys Asp Cys Arg Ile Ala Leu Ser
20      25      30
Asp Trp Ala Ser Thr Gly Arg Phe Leu Tyr Leu Ile Glu Ile Ser Gln
35      40      45
Glu Asp Ser Leu Asn Phe Lys Arg Asn Trp Ala Gly Val Ile Ser Cys
50      55      60
Phe Leu Leu Phe Thr Val Val Cys Met Ser Leu Ala Phe Asn Val Lys
65      70      75      80
Gly Ala Phe Arg Ala Ser Gly His Pro Glu Leu Gly Leu Leu Phe Phe
85      90      95
Ile Leu Pro Gly Val Val Ala Gly Phe Leu Ser Arg Lys Gly Glu Val
100     105     110
Val Met Pro Leu Ile Gly Ala Met Leu Ala Ala Pro Leu Cys Leu Leu
115     120     125
Leu Met Arg Val Leu Phe Leu Ser Ser Arg Ser Val Trp Gln Glu Val
130     135     140
Ala Trp Leu Leu Ser Gly Val Phe Trp Cys Ala Leu Gly Ala Leu Cys
145     150     155     160
Phe Leu Phe Thr Arg Ser Leu Leu Gln Gln Arg Lys His Arg Lys
165     170     175

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<210> 7084

<211> 362

<212> PRT

<213> Enterobacter cloacae

<400> 7084

```

Arg Val Thr Ala Thr Thr Ala Ala Thr Pro Gly Ala Thr Ile Phe Val
1      5      10      15
Ala Pro Leu Ser Arg Arg Thr Ala Arg Ser Phe Ser Thr Thr Cys Thr
20      25      30
Asn Arg Ala Gly Gln Arg Gly Ser Pro Phe Leu Leu Arg Leu Val Tyr

```

35 40 45
 Asp Arg Gln Ala Phe Thr Met Ser Leu Glu Arg Cys Arg Val Lys Ile
 50 55 60
 Ala Ile Leu Ser Arg Asp Gly Thr Leu Tyr Ser Cys Lys Arg Leu Arg
 65 70 75 80
 Glu Ala Ala Ala Lys Arg Gly His Gln Val Glu Ile Leu Asp Pro Met
 85 90 95
 Ser Cys Tyr Met Asn Ile Asp Pro Ala Ala Ser Ser Ile His Tyr Lys
 100 105 110
 Gly Arg Lys Leu Pro His Phe Asp Ala Val Ile Pro Arg Ile Gly Ser
 115 120 125
 Gln Ile Thr Tyr Tyr Gly Thr Ala Ala Leu Arg Gln Phe Glu Met Leu
 130 135 140
 Gly Ser Tyr Pro Leu Asn Glu Ser Val Ala Ile Ser Arg Ala Arg Asp
 145 150 155 160
 Lys Leu Arg Ser Leu Gln Leu Leu Ala Arg Gln Gly Ile Asp Leu Pro
 165 170 175
 Val Thr Gly Ile Ala His Ser Pro Asp Asp Thr Ser Asp Leu Ile Asp
 180 185 190
 Met Val Gly Gly Ala Pro Leu Val Ile Lys Leu Val Glu Gly Thr Gln
 195 200 205
 Gly Ile Gly Val Val Leu Ala Glu Thr Arg Gln Ala Ala Glu Ser Val
 210 215 220
 Ile Asp Ala Phe Arg Gly Leu Asn Ala His Ile Leu Val Gln Glu Tyr
 225 230 235 240
 Ile Lys Glu Ala Lys Gly Cys Asp Ile Arg Cys Phe Val Val Gly Asn
 245 250 255
 Glu Val Val Ala Ala Ile Glu Arg Gln Ala Lys Glu Gly Asp Phe Arg
 260 265 270
 Ser Asn Leu His Arg Gly Gly Ile Ala Arg Val Ala Leu Ile Ser Glu
 275 280 285
 Arg Glu Arg Glu Ile Ala Val Lys Ala Ala Gln Thr Leu Gly Leu Asp
 290 295 300
 Val Ala Gly Val Asp Leu Leu Arg Ala Asp Arg Gly Pro Leu Val Met
 305 310 315 320
 Glu Val Asn Ala Ser Pro Gly Leu Glu Gly Val Glu Lys Thr Thr Gly
 325 330 335
 Val Asp Ile Ala Gly Lys Met Ile Ala Trp Ile Glu Cys His Ala Thr
 340 345 350
 Pro Gly Phe Cys Leu Lys Thr Gly Gly
 355 360

<210> 7085

<211> 171

<212> PRT

<213> Enterobacter cloacae

<400> 7085

Ser Gly Gln Arg Phe Tyr Leu Arg Gly Cys Thr Ala Met Asp Leu Gln
 1 5 10 15
 Val Val Pro Thr Leu Asp Thr Leu Arg Gln Trp Leu Asp Asp Ala Gly
 20 25 30
 Ile Thr Phe Phe Glu Cys Asp Ser Cys Gln Ala Leu His Leu Pro His
 35 40 45
 Met Gln Asn Phe Asp Gly Ile Phe Asp Ala Lys Ile Asp Leu Ile Asn
 50 55 60
 Asp Val Ile Leu Phe Ser Ala Leu Ala Glu Val Lys Pro Ser Ala Leu
 65 70 75 80
 Leu Ala Leu Ala Ser Asp Leu Ser Ala Ile Asn Ala Ser Ser Leu Thr
 85 90 95
 Val Lys Ala Phe Leu Asp Ile Gln Asp Asp Asn Leu Pro Lys Leu Val

	100		105		110										
Val	Cys	Gln	Ser	Leu	Phe	Ser	Gly	Ala	Gly	Leu	Ser	Phe	Lys	Gln	Phe
	115						120					125			
Ala	Trp	Phe	Met	Arg	Leu	Ser	Glu	Glu	Gln	Ile	Ser	Met	Val	Met	Met
	130					135						140			
Glu	Ala	Asn	Ala	His	His	Leu	Leu	Tyr	Ser	Ala	Glu	Asp	Asp	Ala	Glu
145				150						155					160
Asn	Asn	Asp	Ala	Ser	Pro	Asn	Phe	Leu	His						
			165					170							

<210> 7086

<211> 292

<212> PRT

<213> Enterobacter cloacae

<400> 7086

Thr	Ser	Ala	Glu	Thr	Asp	Gly	Arg	Pro	Arg	Met	Asn	Asn	Leu	Pro	Val
1				5					10					15	
Val	Arg	Ser	Pro	Trp	Arg	Ile	Ala	Ile	Leu	Ile	Ile	Gly	Phe	Thr	Phe
	20							25					30		
Leu	Tyr	Ala	Pro	Met	Leu	Met	Leu	Val	Ile	Tyr	Ser	Phe	Asn	Ser	Ser
	35					40						45			
Lys	Leu	Val	Thr	Val	Trp	Ala	Gly	Trp	Ser	Thr	Arg	Trp	Tyr	Ser	Glu
50						55					60				
Leu	Phe	His	Asp	Asp	Ala	Met	Met	Ser	Ala	Val	Gly	Leu	Ser	Leu	Thr
65				70						75					80
Ile	Ala	Ala	Leu	Ala	Ala	Thr	Met	Ala	Cys	Val	Leu	Gly	Thr	Ile	Ala
			85						90					95	
Ala	Leu	Val	Met	Val	Arg	Phe	Gly	Arg	Phe	Arg	Gly	Ala	Asn	Gly	Phe
			100					105						110	
Ala	Phe	Met	Ile	Thr	Ala	Pro	Leu	Val	Met	Pro	Asp	Val	Ile	Thr	Gly
	115						120					125			
Leu	Ser	Leu	Leu	Leu	Leu	Phe	Val	Ala	Leu	Ala	His	Ala	Ile	Gly	Trp
	130					135						140			
Pro	Ala	Asp	Arg	Gly	Met	Leu	Thr	Ile	Trp	Leu	Ala	His	Val	Thr	Phe
145				150						155					160
Cys	Thr	Ala	Tyr	Val	Ala	Val	Val	Ile	Ser	Ser	Arg	Leu	Arg	Glu	Leu
			165						170					175	
Asp	Arg	Ser	Ile	Glu	Glu	Ala	Ala	Met	Asp	Leu	Gly	Ala	Thr	Pro	Leu
			180					185						190	
Lys	Val	Phe	Phe	Ile	Ile	Thr	Leu	Pro	Met	Ile	Met	Pro	Ala	Val	Ile
	195						200					205			
Ser	Gly	Trp	Leu	Leu	Ala	Phe	Thr	Leu	Ser	Leu	Asp	Asp	Leu	Val	Ile
	210					215					220				
Ala	Ser	Phe	Val	Ser	Gly	Pro	Gly	Ala	Thr	Thr	Leu	Pro	Met	Leu	Val
225					230					235					240
Phe	Ser	Ser	Val	Arg	Met	Gly	Val	Asn	Pro	Glu	Ile	Asn	Ala	Leu	Ala
			245					250						255	
Ser	Ile	Ile	Leu	Gly	Val	Val	Gly	Ile	Val	Gly	Phe	Ile	Ala	Trp	Tyr
			260				265						270		
Leu	Met	Ala	Arg	Ala	Glu	Lys	Gln	Arg	Val	Arg	Asp	Ile	Gln	Arg	Ala
	275						280					285			
Arg	Arg	Gly													
	290														

<210> 7087

<211> 173

<212> PRT

<213> Enterobacter cloacae

<400> 7087

Cys Ala Ala Tyr Asp Ala Ala Leu Phe Phe Arg Glu Val Lys Thr Leu
 1 5 10 15
 Gly Phe Leu Gln Lys Thr Arg His Ser His Ala Arg Pro Asn Val Pro
 20 25 30
 Ala Leu Val Gln Val Ala Ala Leu Ala Ile Ile Met Ile Arg Cys Leu
 35 40 45
 Asp Val Leu Met Ile Met Asn Thr Leu Gly Pro Arg Gly Met Gly Glu
 50 55 60
 Phe Ile His Arg Ser Ala Gln Thr Trp Asn Leu Thr Leu Val Phe Leu
 65 70 75 80
 Ser Ser Leu Met Leu Val Phe Ile Glu Ile Tyr Cys Ala Phe Ser Leu
 85 90 95
 Val Lys Gly Arg Asn Trp Ala Arg Trp Val Tyr Leu Leu Thr Gln Ile
 100 105 110
 Thr Ala Ala Gly Tyr Leu Trp Ala Ala Ser Leu Gly Tyr Gly Tyr Pro
 115 120 125
 Glu Leu Phe Ser Ile Pro Gly Glu Ser Arg Arg Glu Ile Phe His Ser
 130 135 140
 Leu Val Met Gln Lys Leu Pro Asp Met Leu Val Leu Phe Leu Leu Phe
 145 150 155 160
 Ala Pro Ala Ser Ser Arg Arg Phe Phe Arg Leu Gln
 165 170

<210> 7088

<211> 514

<212> PRT

<213> Enterobacter cloacae

<400> 7088

Lys Lys Met Pro Pro Ser Arg Arg Ser Phe Ala Pro Ser Gly Ala Lys
 1 5 10 15
 Ala Thr Asn Ser Arg Ser Arg Ile Met Met Arg Arg Phe Ser Leu Ser
 20 25 30
 Gln Arg Leu Thr Leu Leu Phe Thr Val Leu Leu Leu Leu Cys Ala Thr
 35 40 45
 Val Ala Cys Ala Val Gln Leu Tyr Ile Ser Met Gln Tyr Gly Asn Ala
 50 55 60
 Met Val Gln Arg Leu Ser Gly Gly Leu Ala Gln Gln Ile Val Gln Arg
 65 70 75 80
 Glu Ala Ile Leu Asp Ser Gln Gly Arg Val Asp Arg Ser Ala Leu Lys
 85 90 95
 Pro Leu Phe Asp Arg Leu Met Thr Phe Asn Pro Ser Val Glu Leu Tyr
 100 105 110
 Val Val Ser Pro Asp Gly Asp Ile Leu Ala Asp Ala Ala Pro Pro Gly
 115 120 125
 His Ile Gln Arg Gln Lys Ile Asp Leu Ala Pro Ile Gln Asn Phe Leu
 130 135 140
 Ser Gly Thr Val Met Pro Val Phe Gly Asp Asp Pro Arg Ser Gln Asn
 145 150 155 160
 Lys Lys Val Phe Ser Ala Thr Pro Leu Arg Gln Asp Gly Glu Leu Lys
 165 170 175
 Gly Tyr Leu Tyr Ile Ile Leu Gln Gly Glu Glu Ser Asn Ala Leu Ala
 180 185 190
 Glu Met Ala Trp His Lys Ala Leu Trp Ser Thr Ala Leu Trp Ser Met
 195 200 205
 Leu Leu Val Ala Leu Phe Gly Leu Leu Ala Gly Val Leu Leu Trp Tyr
 210 215 220
 Trp Val Thr Arg Pro Val Lys Glu Leu Thr Leu Asp Val Ala Gly Leu
 225 230 235 240
 Glu Gln Asp Ser Ile Ser Ala Ile Lys Gln Leu Ala Ala Gln Pro Leu
 245 250 255

Glu Pro Ala Gly Gln Asp Glu Val Ala Ile Leu Arg Asn Thr Phe Ile
 260 265 270
 Glu Leu Ala Arg Lys Ile Thr Ser Gln Trp Asp Arg Leu Ala Asp Ser
 275 280 285
 Asp Arg Gln Arg Arg Glu Phe Ile Ala Asn Ile Ser His Asp Leu Arg
 290 295 300
 Thr Pro Leu Thr Ser Leu Leu Gly Tyr Leu Glu Thr Leu Ser Leu Lys
 305 310 315 320
 Ser Ala Thr Leu Ser Pro Gln Glu His Gln Gln Tyr Leu Ala Thr Ala
 325 330 335
 Leu Arg Gln Gly Gln Lys Val Arg His Leu Ser Gln Gln Leu Phe Glu
 340 345 350
 Leu Ala Arg Leu Glu His Gly Gly Ile Lys Pro Gln Arg Glu Arg Phe
 355 360 365
 Ala Met Ala Glu Leu Ile Ser Asp Val Ala Gln Lys Phe Glu Leu Thr
 370 375 380
 Ala Arg Thr Arg Glu Val Asn Leu Arg Ile Asp Val Pro Gly Arg Leu
 385 390 395 400
 Pro Leu Val Asn Ala Asp Val Ser Met Ile Glu Arg Val Val Thr Asn
 405 410 415
 Leu Leu Asp Asn Ala Ile Arg His Thr Pro Ser Gly Gly Glu Ile Arg
 420 425 430
 Leu Ala Val Trp Gln Glu Asn Glu Arg Leu Gln Val Glu Val Ala Asp
 435 440 445
 Asn Gly Thr Gly Val Asp Ala Ser Leu Arg Asp Asp Leu Phe Gln Arg
 450 455 460
 Pro Ser Ala Leu Asn Pro Gln Ala Ser Arg Glu Asn Arg Gly Gly Leu
 465 470 475 480
 Gly Leu Leu Ile Val Lys Arg Met Leu Glu Leu His Gly Gly Gly Ile
 485 490 495
 Arg Leu Met Glu Ser Val Ser Gly Ala Arg Phe Arg Phe Phe Val Pro
 500 505 510
 Leu

<210> 7089

<211> 406

<212> PRT

<213> Enterobacter cloacae

<400> 7089

Ala Gly Gln Ala Leu Ala Pro Pro Gly Asp Ala His Pro Asp Gly Ala
 1 5 10 15
 Phe Ala Pro Val Leu Ile Tyr Ala Gly Glu His Pro Val Asn Asp Ala
 20 25 30
 Ile Pro Arg Pro Gln Ala Lys Val Arg Lys Ala Leu Thr Pro Leu Leu
 35 40 45
 Glu Ile Arg Asn Leu Thr Lys Ser Phe Asp Gly Gln His Ala Val Asp
 50 55 60
 Asp Val Ser Leu Thr Ile Tyr Lys Gly Glu Ile Phe Ala Leu Leu Gly
 65 70 75 80
 Ala Ser Gly Cys Gly Lys Ser Thr Leu Leu Arg Met Leu Ala Gly Phe
 85 90 95
 Glu Gln Pro Thr Ala Gly Gln Ile Val Leu Asp Gly Val Asp Leu Ser
 100 105 110
 Ser Val Pro Pro Tyr Gln Arg Pro Ile Asn Met Met Phe Gln Ser Tyr
 115 120 125
 Ala Leu Phe Pro His Met Thr Val Glu Gln Asn Ile Ala Phe Gly Leu
 130 135 140
 Lys Gln Asp Lys Leu Pro Lys Ala Glu Ile Thr Ala Arg Val Ala Glu
 145 150 155 160

Met Leu Ser Leu Val His Met Gln Glu Phe Ala Lys Arg Lys Pro His
 165 170 175
 Gln Leu Ser Gly Gly Gln Arg Gln Arg Val Ala Leu Ala Arg Ser Leu
 180 185 190
 Ala Lys Arg Pro Lys Leu Leu Leu Leu Asp Glu Pro Met Gly Ala Leu
 195 200 205
 Asp Lys Lys Leu Arg Asp Arg Met Gln Leu Glu Val Val Asp Ile Leu
 210 215 220
 Glu Arg Val Gly Val Thr Cys Val Met Val Thr His Asp Gln Glu Glu
 225 230 235 240
 Ala Met Thr Met Ala Gly Arg Ile Ala Ile Met Asn Arg Gly Lys Phe
 245 250 255
 Val Gln Ile Gly Glu Pro Glu Glu Ile Tyr Glu His Pro Thr Thr Arg
 260 265 270
 Tyr Ser Ala Glu Phe Ile Gly Ser Val Asn Val Phe Glu Gly Leu Leu
 275 280 285
 Lys Glu Arg Gln Asp Asp Gly Leu Val Ile Glu Ser Pro Gly Leu Val
 290 295 300
 His Pro Leu Lys Val Asp Ser Asp Asn Ser Val Val Asp Asn Val Pro
 305 310 315 320
 Val Tyr Val Ala Leu Arg Pro Glu Lys Ile Met Leu Cys Asp Glu Pro
 325 330 335
 Pro Ala Asp Gly Tyr Asn Phe Ala Val Gly Glu Val Val His Ile Ala
 340 345 350
 Tyr Leu Gly Asp Leu Ser Ile Tyr His Val Arg Leu Lys Ser Gly Gln
 355 360 365
 Met Leu Ser Ala Gln Leu Gln Asn Glu His Arg Tyr Arg Lys Gly Gln
 370 375 380
 Pro Thr Trp Gly Asp Glu Val Ser Leu Cys Trp Asp Ala Asp Ser Cys
 385 390 395 400
 Val Val Leu Thr Val
 405

<210> 7090

<211> 321

<212> PRT

<213> Enterobacter cloacae

<400> 7090

Gly Ala Val Met Ser Thr Leu Glu Pro Pro Ala Arg Val Lys Lys Pro
 1 5 10 15
 Gly Gly Phe Ala Leu Trp Leu Ala Arg Met Gln Met Ala His Gly Arg
 20 25 30
 Lys Leu Val Ile Ala Met Pro Tyr Ile Trp Leu Ile Leu Leu Phe Leu
 35 40 45
 Leu Pro Phe Leu Ile Val Phe Lys Ile Ser Leu Ala Glu Met Ala Arg
 50 55 60
 Ala Ile Pro Pro Tyr Thr Asp Leu Trp Glu Trp Ala Asp Gly Gln Leu
 65 70 75 80
 Thr Leu Thr Val Asn Leu Gly Asn Phe Leu Gln Leu Thr Asp Asp Pro
 85 90 95
 Leu Tyr Phe Glu Ala Tyr Leu Gln Ser Leu Gln Val Ala Ala Ile Ser
 100 105 110
 Thr Ile Cys Cys Leu Leu Met Gly Tyr Pro Leu Ala Trp Ala Val Ala
 115 120 125
 His Ser Lys Pro Ser Thr Arg Asn Ile Leu Leu Leu Val Ile Leu
 130 135 140
 Pro Ser Trp Thr Ser Phe Leu Ile Arg Val Tyr Ala Trp Met Gly Ile
 145 150 155 160
 Leu Lys Asn Asn Gly Ile Leu Asn Asn Phe Leu Leu Trp Leu Gly Val
 165 170 175

Ile Asp Gln Pro Leu Thr Ile Leu His Thr Asn Leu Ala Val Tyr Ile
 180 185 190
 Gly Ile Val Tyr Ala Tyr Leu Pro Phe Met Val Leu Pro Ile Tyr Thr
 195 200 205
 Ala Leu Thr Arg Ile Asp Tyr Ser Leu Val Glu Ala Ser Leu Asp Leu
 210 215 220
 Gly Ala Arg Pro Leu Lys Thr Phe Phe Ser Val Ile Val Pro Leu Thr
 225 230 235 240
 Lys Gly Gly Ile Ile Ala Gly Ser Met Leu Val Phe Ile Pro Ala Val
 245 250 255
 Gly Glu Phe Val Ile Pro Glu Leu Leu Gly Gly Pro Asp Ser Ile Met
 260 265 270
 Ile Gly Arg Val Leu Trp Gln Glu Phe Phe Asn Asn Arg Asp Trp Pro
 275 280 285
 Val Ala Ser Ala Val Ala Ile Val Met Leu Leu Leu Leu Ile Val Pro
 290 295 300
 Ile Met Trp Phe His Lys His Gln Gln Lys Gln Met Gly Asp His Gly
 305 310 315 320

<210> 7091

<211> 379

<212> PRT

<213> Enterobacter cloacae

<400> 7091

Gly Phe His Met Gln Cys Ala Leu Tyr Asp Ala Gly Arg Cys Arg Ser
 1 5 10 15
 Cys Gln Trp Ile Glu Gln Pro Val Ser Gln Gln Leu Thr Ala Lys Met
 20 25 30
 Ala Asn Leu Gln Gln Leu Leu Ala Ala His Ala Val Gly Glu Trp Cys
 35 40 45
 Ala Pro Val Ser Gly Pro Glu Gln Gly Phe Arg Asn Lys Ala Lys Met
 50 55 60
 Val Val Ser Gly Ser Val Glu Lys Pro Leu Leu Gly Met Leu His Arg
 65 70 75 80
 Asp Gly Thr Pro Glu Asp Leu Thr Asp Cys Pro Leu Tyr Pro Ala Ser
 85 90 95
 Phe Glu Pro Val Phe Ser Ala Leu Lys Pro Phe Ile Ala Arg Ala Gly
 100 105 110
 Leu Thr Pro Tyr Asn Val Ala Arg Arg Arg Gly Glu Leu Lys Tyr Leu
 115 120 125
 Leu Leu Thr Glu Ser Gln Ile Asp Gly Gly Met Met Leu Arg Phe Val
 130 135 140
 Leu Arg Ser Glu Thr Lys Leu Glu Gln Leu Arg Ala Ala Leu Pro Gly
 145 150 155 160
 Leu Gln Gln Gln Leu Pro Gln Leu Lys Val Ile Thr Ala Asn Ile Gln
 165 170 175
 Pro Val His Met Ala Ile Met Glu Gly Glu Lys Glu Ile Phe Phe Thr
 180 185 190
 Glu Gln His Ala Leu Glu Glu Arg Phe Asn Gly Val Pro Leu Trp Ile
 195 200 205
 Arg Pro Gln Ser Phe Phe Gln Thr Asn Pro Thr Val Ala Ser Ala Leu
 210 215 220
 Tyr Thr Thr Ala Arg Asp Trp Val Arg Ala Leu Gln Val His His Met
 225 230 235 240
 Trp Asp Leu Phe Cys Gly Val Gly Gly Phe Gly Leu His Cys Ala Thr
 245 250 255
 Pro Asp Met Gln Leu Thr Gly Ile Glu Ile Ser Ala Glu Ala Ile Ala
 260 265 270

Cys Ala Lys Gln Ser Ala Ala Glu Leu Gly Leu Thr Asn Leu His Phe
 275 280 285
 Gln Ala Leu Asp Ser Thr Gln Phe Ala Thr Gly Gln Gly Asn Val Pro
 290 295 300
 Glu Leu Val Leu Val Asn Pro Pro Arg Arg Gly Ile Gly Gln Ala Leu
 305 310 315 320
 Cys Asp Tyr Leu Ser Gln Met Ala Pro Glu Tyr Ile Val Tyr Ser Ser
 325 330 335
 Cys Asn Ala Gln Thr Met Ala Lys Asp Ile Ala Ser Leu Pro Gly Tyr
 340 345 350
 Arg Ile Ala Arg Val Gln Leu Phe Asp Met Phe Pro His Thr Ala His
 355 360 365
 Tyr Glu Val Leu Thr Leu Leu Thr Lys Ala
 370 375

<210> 7092

<211> 271

<212> PRT

<213> Enterobacter cloacae

<400> 7092

Tyr Ser Gln Ala Met Phe Arg Gln Leu His Gln Val Glu His Cys Leu
 1 5 10 15
 Tyr Trp Leu Pro Tyr Val Leu Arg Asn Thr Lys Arg Asp Lys Met Thr
 20 25 30
 Pro Thr Ile Asp Leu Leu Arg Ser His Arg Ser Ile Arg His Phe Thr
 35 40 45
 Asp Glu Pro Ile Thr Gln Ala Gln Arg Asp Ala Ile Ile Asp Ser Ala
 50 55 60
 Arg Gly Thr Ser Ser Ser Ser Phe Leu Gln Cys Ser Ser Ile Ile Arg
 65 70 75 80
 Ile Thr Asp Pro Ala Met Arg Glu Gln Leu Val Thr Leu Thr Gly Gly
 85 90 95
 Gln Lys His Val Ala Gln Ala Ala Glu Phe Trp Val Phe Cys Ala Asp
 100 105 110
 Phe Asn Arg His Leu Gln Ile Cys Pro Glu Ala Glu Leu Gly Leu Ala
 115 120 125
 Glu Gln Leu Leu Leu Gly Val Val Asp Thr Ala Leu Met Ala Gln Asn
 130 135 140
 Ala Phe Thr Ala Ala Glu Ser Leu Gly Leu Gly Gly Val Tyr Ile Gly
 145 150 155 160
 Gly Leu Arg Asn Asn Ile Glu Ser Val Thr Glu Leu Leu Lys Leu Pro
 165 170 175
 Lys His Val Leu Pro Leu Phe Gly Leu Cys Leu Gly Trp Pro Ala Asp
 180 185 190
 Asn Pro Asp Leu Lys Pro Arg Ile Pro Ala Ala Met Leu Val His Glu
 195 200 205
 Asn His Tyr Gln Pro Val Asp Gln Asp Val Leu His Gln Tyr Asp Glu
 210 215 220
 Glu Leu Ala Asn Tyr Tyr Leu Thr Arg Asp Ser Asn Asn Arg Arg Asp
 225 230 235 240
 Thr Trp Ser Asp His Ile Arg Arg Thr Ile Ile Lys Glu Asn Arg Pro
 245 250 255
 Phe Ile Leu Asp Tyr Leu His Lys Gln Gly Trp Ala Thr Arg
 260 265 270

<210> 7093

<211> 379

<212> PRT

<213> Enterobacter cloacae

<400> 7093

Arg Thr Phe Arg Arg Asn Asn Asn Met Ile Ala Leu Asn Lys Lys Trp
 1 5 10 15
 Leu Ser Gly Leu Val Ala Gly Ala Leu Met Ala Val Ser Ala Gly Thr
 20 25 30
 Leu Ala Ala Glu Gln Lys Thr Leu His Val Tyr Asn Trp Ser Asp Tyr
 35 40 45
 Ile Ala Pro Asp Thr Val Ala Asn Phe Glu Lys Glu Thr Gly Ile Lys
 50 55 60
 Val Val Tyr Asp Val Phe Asp Ser Asn Glu Val Leu Glu Gly Lys Leu
 65 70 75 80
 Met Ala Gly Ser Thr Gly Phe Asp Leu Val Val Pro Ser Ala Ser Phe
 85 90 95
 Leu Glu Arg Gln Leu Thr Ala Gly Val Phe Gln Pro Leu Asp Lys Ser
 100 105 110
 Lys Leu Pro Asn Trp Lys Asn Leu Asp Pro Asp Val Leu Lys Leu Val
 115 120 125
 Ala Lys His Asp Pro Asp Asn Lys Tyr Ala Met Pro Tyr Leu Trp Ala
 130 135 140
 Thr Thr Gly Ile Gly Tyr Asn Val Asp Lys Val Lys Ala Ala Leu Gly
 145 150 155 160
 Pro Asp Val Lys Leu Asp Ser Trp Asp Val Val Leu Lys Pro Glu Asn
 165 170 175
 Leu Glu Lys Leu Lys Ser Cys Gly Val Ser Phe Leu Asp Ala Pro Glu
 180 185 190
 Glu Ile Phe Ala Thr Val Leu Asn Tyr Leu Gly Lys Asp Pro Asn Ser
 195 200 205
 Ser Lys Ala Asp Asp Tyr Thr Gly Pro Ala Thr Asp Leu Leu Lys
 210 215 220
 Leu Arg Pro Asn Ile Arg Tyr Phe His Ser Ser Gln Tyr Ile Asn Asp
 225 230 235 240
 Leu Ala Asn Gly Asp Ile Cys Val Ala Ile Gly Trp Ala Gly Asp Val
 245 250 255
 Trp Gln Ala Ala Asn Arg Ala Lys Glu Ala Lys Asn Gly Val Asn Val
 260 265 270
 Ser Tyr Phe Ile Pro Lys Glu Gly Ala Leu Ala Phe Phe Asp Val Phe
 275 280 285
 Ala Met Pro Ala Asp Ala Lys Asn Lys Glu Glu Ala Tyr Gln Phe Leu
 290 295 300
 Asn Tyr Leu Met Arg Pro Asp Val Ile Ala His Ile Ser Asp His Val
 305 310 315 320
 Tyr Tyr Ala Asn Gly Asn Lys Ala Ser Glu Pro Leu Val Ser Glu Glu
 325 330 335
 Ile Arg Asn Asn Pro Ala Ile Tyr Pro Pro Ala Asp Val Phe Ala Lys
 340 345 350
 Leu Phe Thr Leu Lys Val Gln Glu Pro Lys Ile Asp Arg Val Arg Thr
 355 360 365
 Arg Ala Trp Thr Lys Val Lys Ser Gly Lys
 370 375

<210> 7094

<211> 243

<212> PRT

<213> Enterobacter cloacae

<400> 7094

Gln Met Ile Glu Gly Leu Pro Met Lys Gln Ile Leu Leu Val Glu Asp
 1 5 10 15
 Asp His Asp Ile Ala Ala Leu Leu Arg Leu Asn Leu Glu Asp Glu Gly
 20 25 30
 Tyr Ala Ile Thr His Glu Pro Asp Gly Gly Asn Ala Leu Gln Arg Leu

	35		40		45										
Glu	Thr	Gln	Pro	Trp	Asp	Ala	Val	Ile	Leu	Asp	Leu	Met	Leu	Pro	Asn
50						55					60				
Val	Asp	Gly	Leu	Glu	Ile	Cys	Arg	Arg	Ile	Arg	Gln	Met	Thr	Arg	Tyr
65					70					75					80
Leu	Pro	Ile	Ile	Ile	Ile	Ser	Ala	Arg	Ser	Ser	Glu	Thr	Asp	Arg	Ile
				85					90					95	
Thr	Gly	Leu	Glu	Thr	Gly	Ala	Asp	Asp	Tyr	Leu	Ala	Lys	Pro	Phe	Ser
			100				105						110		
Val	Gln	Glu	Leu	Ile	Ala	Arg	Ile	Lys	Ala	Leu	Phe	Arg	Arg	Gln	Gln
		115					120					125			
Ala	Met	Gly	Gln	Ala	Gln	Thr	Asp	Gly	Ile	Ile	Gln	Ala	His	Gly	Leu
130						135					140				
Thr	Ile	Asp	Pro	Leu	Ala	Arg	Thr	Val	Arg	Leu	Asn	Gly	Gln	His	Val
145					150					155					160
Asp	Leu	Thr	Pro	Arg	Glu	Phe	Glu	Leu	Leu	Tyr	Phe	Phe	Ala	Arg	His
				165					170					175	
Pro	Gly	Glu	Val	Phe	Ser	Arg	Leu	Ala	Leu	Leu	Glu	Gln	Val	Trp	Gly
			180					185					190		
Tyr	Gln	His	Glu	Gly	Tyr	Glu	His	Thr	Val	Asn	Thr	His	Ile	Asn	Arg
		195					200					205			
Leu	Arg	Ile	Lys	Ile	Glu	Lys	Asp	Ala	Ala	Glu	Pro	Glu	Ile	Val	Arg
210						215					220				
Thr	Val	Trp	Gly	Lys	Gly	Tyr	Lys	Phe	Ala	Glu	Gln	Asn	His	Asp	Ala
225					230					235					240
Ser	Leu														

<210> 7095

<211> 699

<212> PRT

<213> Enterobacter cloacae

<400> 7095

Leu	Met	Asn	Lys	Leu	Phe	Leu	Leu	Ser	Gly	Leu	Ala	Leu	Ala	Ile	Ser
1				5					10					15	
Ser	Ala	Cys	His	Ala	Glu	Leu	Arg	Thr	Trp	Pro	Asp	Pro	Thr	Gly	Pro
			20					25					30		
Ser	Gln	Ser	Asp	Phe	Gly	Gly	Thr	Gly	Leu	Met	Gln	Met	Pro	Asp	Ala
		35					40					45			
Arg	Phe	Gly	Arg	Glu	Gly	Glu	Phe	Ser	Val	Asn	Tyr	Arg	Asp	Asn	Asn
	50					55					60				
Gln	Tyr	Arg	Phe	Tyr	Ser	Ser	Ser	Val	Val	Leu	Phe	Pro	Trp	Leu	Glu
65					70					75					80
Gly	Thr	Ile	Arg	Tyr	Thr	Asp	Val	Arg	Thr	Arg	Lys	Tyr	Ser	Ser	Asn
			85						90					95	
Glu	Asp	Phe	Ser	Gly	Asp	Gln	Ser	Tyr	Lys	Asp	Lys	Ser	Phe	Asp	Phe
			100					105					110		
Lys	Val	Arg	Leu	Trp	Glu	Glu	Asp	Tyr	Ser	Leu	Pro	Gln	Val	Ala	Leu
		115					120					125			
Gly	Lys	Arg	Asp	Ile	Ala	Gly	Thr	Gly	Leu	Phe	Asp	Gly	Glu	Tyr	Leu
130						135					140				
Val	Ala	Ser	Lys	Met	Ala	Gly	Pro	Val	Asp	Phe	Thr	Phe	Gly	Ile	Ala
145					150					155					160
Trp	Gly	Tyr	Pro	Gly	Asn	Ser	Asp	Asn	Val	Gly	Asn	Pro	Leu	Cys	His
				165					170					175	
Asp	Asn	Asn	Lys	Tyr	Cys	Thr	Arg	Gly	Glu	Ser	His	Asp	Ala	Gly	Asp
			180					185					190		
Ile	Ser	Phe	Ser	Asp	Met	Phe	Arg	Gly	Pro	Ala	Ser	Leu	Phe	Gly	Gly
		195					200					205			
Leu	Gln	Tyr	Gln	Thr	Pro	Trp	Gln	Pro	Leu	Arg	Leu	Lys	Leu	Glu	Tyr

210	215	220
Asp Gly Asn Asn Tyr	Ala Asp Asp Phe Ala Gly Ser Ile Lys Gln Ser	
225	230	235
Ser His Ile Asn Val	Gly Ala Val Tyr Arg Val Ala Asp Trp Ala Asp	240
	245	250
Leu Asn Leu Ser Tyr	Glu Arg Gly Asn Thr Leu Met Phe Gly Phe Thr	255
	260	265
Leu Arg Thr Asn Phe Asn Asp	Leu Arg Pro Ala Leu Arg Asp Asn Pro	270
	275	280
Lys Pro Ala Trp Gln Pro	Ala Pro Ala Gly Glu Thr Leu Asp Tyr Thr	285
	290	295
Ser Ala Ala Asn Gln Leu	Thr Ala Leu Lys Tyr Asn Ala Gly Phe Asp	300
305	310	315
Ala Pro Glu Ile Leu	Gln His Gly Asn Thr Leu Tyr Met Thr Gly Glu	320
	325	330
Gln Tyr Arg Tyr Arg	Asp Pro Arg Glu Ala Val Asp Arg Ala Asn Arg	335
	340	345
Ile Leu Ile Asn Asn Leu	Pro Asp Gly Val Asp Thr Ile Ala Ile Thr	350
	355	360
Gln Gln Arg Asp His Leu	Pro Leu Val Thr Thr Gln Thr Asp Val Ala	365
	370	375
Ser Leu Arg Lys Gln Leu	Ala Gly Gln Pro Leu Gly Gln Glu Glu Ala	380
385	390	395
Leu Arg Gln Gln Arg	Val Glu Pro Val Asp Thr Thr Ala Phe Gly Arg	400
	405	410
Gly Tyr Arg Ile Arg	Ala Asp Arg Phe Ser Tyr Ser Val Lys Pro Thr	415
	420	425
Leu Ala Gln Ser Leu	Gly Gly Pro Glu Asp Phe Tyr Met Phe Gln Val	430
	435	440
Gly Val Met Ala Ser	Ala Ser Tyr Trp Leu Thr Asp Arg Leu Leu Leu	445
	450	455
Asp Gly Gly Val Phe	Ala Asn Leu Tyr Asn Asn Tyr Asp Lys Phe Lys	460
465	470	475
Ser Ser Leu Leu Pro	Ala Asp Ser Ser Leu Pro Arg Val Arg Thr His	480
	485	490
Ile Arg Asp Tyr Val	Ser Asn Asp Val Tyr Ile Asn Asn Leu Gln Ala	495
	500	505
Asn Tyr Val Asp Ala	Leu Gly Asn Gly Phe Tyr Ala Gln Ile Tyr Gly	510
	515	520
Gly Tyr Leu Glu Thr	Met Tyr Gly Gly Val Gly Ala Glu Ala Leu Trp	525
	530	535
Arg Pro Leu Asp Ser	Asp Trp Ala Leu Gly Val Asp Ala Asn Tyr Val	540
545	550	555
Lys Gln Arg Asp Trp	Asp Asp Met Met Arg Phe Thr Asp Tyr Ser Val	560
	565	570
Pro Thr Gly Phe Ile	Thr Ala Tyr Trp Asn Pro Ala Lys Leu Asn Ser	575
	580	585
Val Leu Met Lys Leu	Ser Val Gly Gln Tyr Leu Ala Lys Asp Lys Gly	590
	595	600
Ala Thr Leu Asp Val	Ala Lys Arg Phe Asp Ser Gly Val Thr Val Gly	605
	610	615
Val Trp Ala Ala Leu	Thr Asn Val Ser Lys Glu Asp Tyr Gly Glu Gly	620
625	630	635
Gly Phe Ser Lys Gly	Phe Tyr Ile Ser Ile Pro Leu Asp Leu Met Thr	640
	645	650
Ile Gly Pro Asn Arg	Asn Arg Ala Val Ser Trp Thr Pro Leu Thr	655
	660	665
Arg Asp Gly Gly Gln	Met Leu Gly Arg Lys Tyr Gln Leu Tyr Asp Met	670
	675	680
Thr Ser Glu Arg Glu	Thr Pro Val Gly Gln	685
690	695	

<210> 7096
 <211> 159
 <212> PRT
 <213> Enterobacter cloacae

<400> 7096

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Asn Arg Glu Ile Tyr Gln Asn Met Ala Lys Leu Thr Phe Asn Ala Ile
1      5      10      15
Leu Val Ile Cys Thr Gly Asn Ile Cys Arg Ser Pro Ile Gly Glu Arg
20     25     30
Leu Leu Arg Arg Leu Leu Pro Ala Arg Val Asp Ser Ala Gly Thr
35     40     45
Cys Gly Leu Glu Gly Arg Thr Ala Asp Ser Gln Ala Thr Glu Ile Ala
50     55     60
Ala Glu Arg Gly Thr Leu Leu Glu Gly His Val Ala Arg Arg Leu Thr
65     70     75     80
Pro Ala Met Val Arg Asp Tyr Asp Leu Ile Leu Ala Met Glu Leu Glu
85     90     95
His Ile Glu Gln Phe Thr Ala Ile Ala Pro Glu Ala Arg Gly Lys Met
100    105    110
Met Leu Phe Gly His Trp Thr Gly Lys Lys Glu Ile Pro Asp Pro Thr
115    120    125
Val Lys Pro Gly Thr His Leu Asn Met Phe Met Gly Cys Trp Ser Arg
130    135    140
Pro Val Trp Asn Gly Arg Asn Gly Ser Val Asn His Thr Gly
145    150    155

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<210> 7097
 <211> 729
 <212> PRT
 <213> Enterobacter cloacae

<400> 7097

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Leu Arg Phe Met Ser Thr Asn Asn Leu His Ala His Asp Ala Ser Ala
1      5      10      15
Ala Asn Asn Glu Ile Asp Leu Val Arg Leu Leu Gly Glu Leu Leu Asp
20     25     30
His Arg Lys Phe Ile Leu Ile Leu Thr Ala Leu Phe Thr Leu Val Ala
35     40     45
Leu Leu Tyr Ala Leu Phe Ala Thr Pro Val Tyr Gln Ala Asp Ala Leu
50     55     60
Ile Gln Val Glu Gln Lys Gln Gly Asn Ala Leu Leu Ser Asn Leu Ser
65     70     75     80
Glu Phe Ile Pro Asp Ser Ser Pro Glu Ser Ala Pro Glu Leu Gln Leu
85     90     95
Leu Gln Ser Arg Met Ile Leu Gly Lys Thr Ile Asp Asp Leu Asn Leu
100    105    110
Arg Thr Gln Val Ser Glu Asn Tyr Phe Pro Phe Val Gly Arg Gly Trp
115    120    125
Ala Arg Leu Thr Gly Gln Gln Pro Gly Ile Val Asp Ile Arg Met Leu
130    135    140
Asn Leu Pro Pro Val Ala Gly Arg Ala Gln Lys Leu Thr Leu Thr Val
145    150    155    160
Gly Glu Lys Gly His Tyr Gln Leu Glu Gly Asp Asn Val Thr Leu Gln
165    170    175
Gly Val Val Gly Gln Pro Leu Ser Ala Ala Asn Ile Ala Ile Thr Ile
180    185    190
Ala Asp Ile Gln Ala Lys Pro Gly Thr Gln Phe Thr Ile Thr Gln Gln
195    200    205
Ser Glu Leu Glu Ala Ile Asp Ala Leu Gln Leu Arg Phe Ser Val Ser

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210		215		220
Glu Arg Ser Lys Asp	Ser Gly Met Leu Gly Leu Thr Ile Thr Gly Glu			
225	230	235		240
Asp Pro Asp Glu Met	Ala Arg Val Leu Asn Cys Ile Ala Asp Asn Tyr			
	245	250		255
Leu Gln Gln Asn Val	Ala Arg Gln Ala Ala Gln Asp Ala Lys Ser Leu			
	260	265		270
Gln Phe Leu Lys Gln	Gln Leu Pro Gln Val Arg Ser Glu Leu Asp Gln			
	275	280		285
Ala Glu Glu Lys Leu	Asn Arg Tyr Arg Gln Gln Asn Asp Ser Val Asp			
	290	295		300
Leu Asn Leu Glu Ala	Lys Ala Val Leu Glu Gln Ile Val Asn Ala Asp			
305	310	315		320
Asn Gln Leu Asn Glu	Leu Thr Phe Arg Glu Ala Glu Ile Ser Gln Leu			
	325	330		335
Tyr Lys Lys Asp His	Pro Thr Tyr Arg Ala Leu Ile Glu Lys Arg Gln			
	340	345		350
Thr Leu Glu Gln Glu	Lys Asn Arg Leu Asn Lys Arg Val Ser Ser Met			
	355	360		365
Pro Ser Thr Gln Gln	Glu Val Leu Arg Leu Ser Arg Asp Val Glu Ser			
	370	375		380
Gly Arg Val Ile Tyr	Gln Gln Leu Leu Asn Arg Glu Gln Glu Leu Ser			
385	390	395		400
Ile Ala Arg Ser Ser	Ala Ile Gly Asn Val Arg Ile Ile Asp Pro Ala			
	405	410		415
Val Thr Arg Pro Gln	Pro Val Lys Pro Lys Lys Ala Leu Val Val Val			
	420	425		430
Leu Gly Val Leu Leu	Gly Leu Phe Val Ser Ala Gly Trp Ile Leu Ala			
	435	440		445
Arg Ser Met Leu Arg	Met Gly Ile Glu Thr Pro Glu Gln Leu Glu Glu			
	450	455		460
His Gly Ile Asn Val	Tyr Ala Thr Val Pro Leu Ser Glu Trp Leu Ala			
	465	470		475
Lys Lys Met Arg Leu	Arg Lys Lys Asp Phe Met Ser Pro Gly Leu Arg			
	485	490		495
His Lys Thr Lys His	Ile Pro Phe Leu Ala Ala Asp Asn Pro Val Asp			
	500	505		510
Leu Ser Val Glu Ala	Ile Arg Gly Leu Arg Thr Ser Leu His Phe Ala			
	515	520		525
Met Met Glu Ser Ala	Asn Asn Ile Leu Met Ile Ser Gly Ala Thr Pro			
	530	535		540
Asp Ser Gly Lys Thr	Phe Val Ser Ser Thr Leu Ala Ala Val Val Ala			
	545	550		555
Gln Ala Gly Gln Lys	Val Leu Tyr Ile Asp Ala Asp Met Arg Arg Gly			
	565	570		575
Tyr Ala His Asp Leu	Phe Lys Leu Asp Asn Thr Cys Gly Leu Ser Glu			
	580	585		590
Ile Leu Ser Gly Lys	Ala Glu Tyr Thr Gln Gly Val Gln Thr Phe Asp			
	595	600		605
Lys Gly Gly Phe Asp	Thr Ile Val Arg Gly Gln Ile Pro Pro Asn Pro			
	610	615		620
Ala Glu Leu Leu Met	His Thr Arg Phe Gln Gln Leu Leu Asp Trp Ala			
	625	630		635
Asn Glu Arg Tyr Asp	Leu Val Ile Ile Asp Thr Pro Pro Ile Leu Ala			
	645	650		655
Val Thr Asp Ala Val	Val Val Gly Arg Ala Gly Thr Thr Leu Leu			
	660	665		670
Val Ala Arg Phe Gly	Met Asn Ser Val Lys Glu Met Leu Val Cys Val			
	675	680		685
Gln Arg Leu Glu Gln	Ser Gly Val Asn Thr Lys Gly Val Ile Leu Asn			
	690	695		700

Gly Val Val Lys Arg Ala Ser Asn Ala Tyr Gly Tyr Gly Tyr His His
 705 710 715 720
 Tyr Gly Tyr Asn Tyr Ser Ser Asn
 725

<210> 7098

<211> 606

<212> PRT

<213> Enterobacter cloacae

<400> 7098

Leu Asn Phe Ala Cys Arg Phe Gln Leu Leu Pro Ser Phe Cys Cys Asn
 1 5 10 15
 Lys Asn Asn Ala Leu Lys Arg Ala Arg Lys Met His Phe Cys Ser Trp
 20 25 30
 Ser Ala Ala Pro Gly Gln Gly Ile Pro Phe Ala Lys Gln Gly Gly Val
 35 40 45
 Ile Met Val Lys Trp Ile Ser Ile Leu Met Ile Phe Leu Ser Ser Gly
 50 55 60
 Ala Met Ala Ile Cys Pro Val Trp Ser Pro Ala Lys Ala Gly Gln Glu
 65 70 75 80
 Ile Ala Ala Leu Lys Ala Gln Leu Thr Arg Trp Asn Glu Asp Tyr Trp
 85 90 95
 Lys Gln Gly Ser Ser Glu Val Ser Asp Asp Val Tyr Asp Arg Leu Asn
 100 105 110
 Ala Arg Leu Lys Gln Trp Gln Arg Cys Phe His Asp Glu Pro Leu His
 115 120 125
 Asp Asp Pro Pro Ala Ala Ser Gly Thr Val Lys His Pro Phe Ala His
 130 135 140
 Thr Gly Val His Lys Val Glu Ser Lys Gln Ala Leu Ser Arg Trp Met
 145 150 155 160
 Ala Thr Gln Gln Asp Leu Trp Val Gln Pro Lys Val Asp Gly Val Ala
 165 170 175
 Val Thr Leu Val Tyr Lys Asn Gly Lys Leu Ala Gln Ala Ile Ser Arg
 180 185 190
 Gly Asp Gly Leu Gln Gly Glu Glu Trp Thr Ala Gln Ala Arg Met Ile
 195 200 205
 Pro Ala Ile Pro Gln Thr Leu Ala Gly Pro Leu Ala Asn Ser Val Leu
 210 215 220
 Gln Gly Glu Leu Phe Leu Leu Arg Glu Gly His Ile Gln Gln Arg Met
 225 230 235 240
 Gly Gly Met Asn Ala Arg Ala Lys Val Ala Gly Ala Met Met Arg Ala
 245 250 255
 Thr Asp Arg Ala Ala Leu Lys Gln Thr Gly Ile Phe Ile Trp Ala Trp
 260 265 270
 Pro Asn Gly Pro Lys Val Met Lys Ala Arg Leu Ser Ala Leu Ala Glu
 275 280 285
 Ala Gly Phe Thr Leu Thr Ala Arg Tyr Thr Leu Pro Val Lys Asn Ala
 290 295 300
 Ala Asp Val Glu Ala Gln Arg Thr Ala Trp Phe Lys Ala Ser Leu Pro
 305 310 315 320
 Phe Ala Thr Asp Gly Ile Val Val Arg Ala Ser Ala Glu Pro Pro Gly
 325 330 335
 Glu Glu Trp Leu Pro Gly Glu Gly Ser Trp Val Val Ala Trp Lys Tyr
 340 345 350
 Leu Pro Val Ala Gln Val Thr Glu Val Lys Ala Ile His Phe Thr Val
 355 360 365
 Gly Arg Thr Gly Arg Ile Thr Ala Ile Ala Gln Leu Glu Pro Leu Met
 370 375 380
 Leu Asp Asp Lys Arg Val Gln Arg Val Ser Leu Gly Ser Val Asn Arg
 385 390 395 400

Trp Gln Arg Leu Asp Ile Ala Pro Gly Asp Gln Val Leu Val Ser Leu
 405 410 415
 Ala Gly Gln Gly Ile Pro Arg Leu Asp Asn Val Val Trp Arg Asn Val
 420 425 430
 Asp Arg Arg Lys Pro Gln Pro Pro Ser Ser Arg Tyr Asn Gly Leu Thr
 435 440 445
 Cys Phe Tyr Ala Ser Pro Glu Cys Met Glu Gln Phe Phe Ala Arg Leu
 450 455 460
 Thr Trp Leu Ser Ser Arg Gln Ala Leu Asp Ile Glu Gly Met Gly Glu
 465 470 475 480
 Ser Gly Trp Arg Thr Leu Tyr Gln Ala His Arg Phe Glu His Leu Phe
 485 490 495
 Ser Trp Leu Gln Leu Thr Gln Ala Gln Leu Thr Ala Thr Pro Gly Ile
 500 505 510
 Ser Ala Ser His Gly Ala Ala Leu Trp His Gln Phe Asn Leu Ala Arg
 515 520 525
 Glu Arg Pro Phe Ile Arg Trp Ile Thr Ala Met Gly Ile Pro Leu Ala
 530 535 540
 Arg Ser Thr Leu Lys Ala Ala Gly Asp Arg Thr Trp Gln Ala Leu Ile
 545 550 555 560
 Gln Arg Ser Glu Ala Glu Trp Arg Met Leu Pro Gly Val Gly Gln Glu
 565 570 575
 Lys Ala Arg Gln Ile Val Asn Trp Leu His Gln Pro Gln Ile Asp Ala
 580 585 590
 Leu Ala Lys Trp Leu Ala Ala Glu His Ile Gly Gly Phe
 595 600 605

<210> 7099

<211> 275

<212> PRT

<213> Enterobacter cloacae

<400> 7099

Phe Arg Tyr Arg Pro Gly Thr Pro Glu Arg Thr Asp Ala Arg Arg Gly
 1 5 10 15
 Arg Ile Pro Cys Arg His Asp Asp Val Glu Ala Arg Pro Met Asn Arg
 20 25 30
 Leu Arg Lys Trp Leu Pro Gly Val Gly Leu Ser Leu Phe Ser Leu Ser
 35 40 45
 Ala Leu Cys Ala Ser Val Val Thr Val His Gln Pro Gly Lys Thr Trp
 50 55 60
 Ser Ala Glu Pro Ala Asp Thr Leu Ser Arg Leu Val Thr Gln Pro Gln
 65 70 75 80
 Leu Asn Asn Val Trp Trp Gln Gly Ala Val Ile Ala Thr Pro Ser Ala
 85 90 95
 Thr Leu Arg Ala Gln Gln Thr Gln Gln Val Leu Ala Ser Leu Ser
 100 105 110
 Val Trp Gln Asn Arg Thr Asp Asp Glu Arg Ile Ala Thr Ile Arg Ala
 115 120 125
 Val Ala Ala Gln Ile Arg Ser Leu Arg Ile Val Gly Arg Gln Phe Val
 130 135 140
 Ser Leu Asp Pro Asp Ala Val Arg Thr Asp Ala Arg Gly Asp Arg Phe
 145 150 155 160
 Leu Glu Gly Arg Tyr Asp Leu Trp Leu Ser Pro Ala Pro Arg Thr Val
 165 170 175
 Thr Leu Met Gly Ala Val Val Thr Pro Gly Lys Arg Ala Trp Arg Pro
 180 185 190
 Gly Ala Ser Ile Arg Asp Tyr Leu Gln Gly Gln Leu Arg Leu Ala Gly
 195 200 205
 Ala Asp Arg Asn Asn Val Thr Val Ile Asp Pro Asp Gly Ser Thr Val
 210 215 220

Val Ala Pro Val Ala Tyr Trp Asn Ala Arg His Ile Glu Ala Glu Pro
 225 230 235 240
 Gly Ala Val Leu Trp Val Gly Phe Asp Pro Arg Ala Val Pro Asp Asp
 245 250 255
 Phe Thr Gly Leu Asn Glu Gln Ile Val Ala Leu Leu Thr Arg Arg Ile
 260 265 270
 Pro Asp
 275

<210> 7100

<211> 378

<212> PRT

<213> Enterobacter cloacae

<400> 7100

Met Lys Asn Val Lys Phe Ser Val Leu Ala Leu Ala Met Met Ala Leu
 1 5 10 15
 Ser Gly Cys Thr Ile Val Pro Gly Gln Gly Leu Ser Thr Gln Gly Lys
 20 25 30
 Asp Ile Ile Asp Leu Pro Asp Ser Asn Tyr Asp Leu Asn Lys Met Val
 35 40 45
 Asn Val Tyr Pro Leu Thr Pro Gly Leu Val Glu Gln Leu Leu Pro Gly
 50 55 60
 Lys Val Asp Ser Arg Ala Asn Pro Glu Leu Asp Arg Gln Leu Gln Asn
 65 70 75 80
 Tyr Gln Tyr Cys Ile Gly Val Gly Asp Val Leu Met Val Thr Val Trp
 85 90 95
 Asp His Pro Glu Leu Thr Thr Pro Ala Gly Gln Tyr Arg Ser Ala Ser
 100 105 110
 Asp Thr Gly Asn Trp Val Asn Ala Asp Gly Thr Ile Phe Tyr Pro Tyr
 115 120 125
 Ile Gly Lys Ile Arg Val Val Gly Lys Thr Leu Ala Gln Val Arg Asp
 130 135 140
 Glu Ile Ala Ala Arg Leu Asp Ser Val Ile Glu Ser Pro Gln Val Asp
 145 150 155 160
 Val Ser Val Ala Ala Phe Arg Ser Gln Lys Ala Tyr Val Thr Gly Glu
 165 170 175
 Val Ala Lys Ser Gly Gln Gln Pro Ile Thr Asn Ile Pro Leu Thr Ile
 180 185 190
 Met Asp Ala Ile Asn Ala Ala Gly Gly Leu Thr Ser Glu Ala Asp Trp
 195 200 205
 Arg His Val Val Leu Thr His Asn Gly Gln Asp Thr His Ile Ser Leu
 210 215 220
 Tyr Ala Leu Met Gln Arg Gly Asp Leu Thr Gln Asn Lys Leu Leu Tyr
 225 230 235 240
 Pro Gly Asp Ile Leu Phe Ile Pro Arg Asn Asp Asp Leu Lys Val Phe
 245 250 255
 Val Met Gly Glu Val Gly Lys Gln Ser Thr Gln Lys Met Asp Arg Ser
 260 265 270
 Gly Met Thr Leu Ala Glu Ala Leu Gly Asn Ala Gln Gly Val Asn Gln
 275 280 285
 Asp Met Ala Asp Ala Thr Gly Ile Phe Val Ile Arg Pro Leu Gln Gly
 290 295 300
 Lys Gln Asn Gly Lys Ile Ala Asn Val Tyr Gln Leu Asn Ala Arg Asp
 305 310 315 320
 Ala Thr Ala Met Val Leu Ser Thr Glu Phe Gln Leu Glu Pro Tyr Asp
 325 330 335
 Ile Val Tyr Val Thr Thr Ala Pro Leu Val Arg Trp Asn Arg Val Ile
 340 345 350
 Ser Gln Leu Val Pro Thr Ile Thr Gly Val His Asp Leu Thr Glu Thr
 355 360 365

Gly Arg Tyr Ile Arg Thr Trp Pro Asn
370 375

<210> 7101

<211> 226

<212> PRT

<213> Enterobacter cloacae

<400> 7101

```

Leu Ile Ser Met Leu Phe Asn Gln Gly Phe Leu Val Arg Leu Phe Ile
1      5      10      15
Leu Leu Ile Met Thr Leu Leu Ile Gln Gly Cys Thr Pro Ser Gln Gln
20     25     30
Ser Ile Ile Glu Thr Phe Asn Ala Ser Leu Asp Gly Arg Gln Asp Val
35     40     45
Thr Val Thr Asp Gly Gln Ile Gln Ala Phe Pro Tyr Ser Thr Met Tyr
50     55     60
Leu Arg Leu Asp Asn Gly Pro Arg Ile Leu Val Val Leu Gly Tyr Ile
65     70     75     80
Glu Gln Gly Asn Ser Lys Trp Leu Ser Gln Asp Asn Ala Met Ile Val
85     90     95
Thr His Asn Gly Arg Leu Ile His Thr Leu Lys Leu Pro Tyr Asn Leu
100    105    110
Leu Glu Val Thr Asn Leu Glu His Asp Pro Leu Arg His Thr Pro Gln
115    120    125
Leu Arg Asp Gly Ser Gln Trp Ser Arg Asp Val Arg Trp Gln Glu Glu
130    135    140
Gly Arg Tyr Arg Ser Ala His Leu Asn Ser Arg Phe Ser Leu Ser Gly
145    150    155    160
Thr Glu Asn Leu Thr Leu Ala Gly Asn Thr Leu Arg Cys Gln Val Trp
165    170    175
Gln Glu Ala Val Gln Ala Asp Gly Leu Asp Arg Arg Trp His Asn Thr
180    185    190
Phe Trp Ile Asp Ser Ala Thr Gly Gln Val Arg Gln Ser Glu Gln Met
195    200    205
Leu Gly Ala Gly Val Phe Pro Val Ala Met Thr Met Leu Lys Pro Ala
210    215    220
Pro
225

```

<210> 7102

<211> 83

<212> PRT

<213> Enterobacter cloacae

<400> 7102

```

Gly Pro Arg Gly Ala Gln Ala His Pro Arg His Gly Ala Arg Leu Arg
1      5      10      15
Ser Asp Ser Gly Asp Gly Ala Gly Thr Tyr Arg Ala Val His Gly Tyr
20     25     30
Arg Thr Gly Gly Ala Arg Gln Asn Asp Ala Leu Trp Ser Leu Asp Gly
35     40     45
Gln Lys Arg Asp Pro Gly Pro His Arg Lys Thr Arg Asp Ala Phe Glu
50     55     60
Tyr Val Tyr Gly Leu Leu Glu Gln Ala Ser Leu Glu Trp Ala Lys Arg
65     70     75     80
Leu Ser

```

<210> 7103

<211> 280

<212> PRT

<213> Enterobacter cloacae

<400> 7103

```

Thr Phe Pro Phe Leu Lys Glu Arg Trp Gly Asp Tyr Ser Phe Gln Gly
1      5      10      15
Leu Leu Arg Ile Gly Ile Ser Val Leu Tyr Pro Tyr Asn Ala Gln Pro
20      25      30
His Ser Phe Gln Ala Gly Glu Ser Ile Met Arg Pro Ala Gly Arg Asn
35      40      45
Ala Asn Gln Val Arg Pro Val Thr Leu Thr Arg Asn Tyr Thr Lys His
50      55      60
Ala Glu Gly Ser Val Leu Val Glu Phe Gly Asp Thr Lys Val Leu Cys
65      70      75      80
Thr Ala Ser Ile Glu Lys Gly Val Pro Arg Phe Leu Lys Gly Gln Gly
85      90      95
Gln Gly Trp Ile Thr Ala Glu Tyr Cys Met Leu Pro Arg Ala Thr His
100     105     110
Thr Arg Asn Ala Arg Glu Ala Ala Lys Gly Lys Gln Gly Gly Arg Thr
115     120     125
Met Glu Ile Gln Arg Leu Ile Ala Arg Ala Leu Arg Ala Ala Val Asp
130     135     140
Leu Lys Thr Leu Gly Glu Phe Thr Ile Thr Leu Asp Cys Asp Val Ile
145     150     155     160
Gln Ala Asp Gly Gly Thr Arg Thr Ala Ser Ile Thr Gly Ala Cys Val
165     170     175
Ala Leu Ala Asp Ala Leu Asn Lys Leu Val Ala Ala Gly Lys Leu Lys
180     185     190
Thr Asn Pro Met Lys Gly Met Val Ala Ala Val Ser Val Gly Ile Val
195     200     205
Asn Gly Glu Ala Leu Cys Asp Leu Glu Tyr Val Glu Asp Ser Ala Ala
210     215     220
Glu Thr Asp Met Asn Val Val Met Thr Glu Asp Gly Arg Ile Ile Glu
225     230     235     240
Val Gln Gly Thr Ala Glu Gly Glu Pro Phe Thr His Glu Glu Leu Leu
245     250     255
Thr Leu Leu Ala Leu Ala Arg Gly Gly Ile Glu Ser Ile Val Ala Thr
260     265     270
Gln Lys Ala Ala Leu Glu Asn
275      280

```

<210> 7104

<211> 230

<212> PRT

<213> Enterobacter cloacae

<400> 7104

```

Val Ala Phe Phe Leu Pro Val Arg Leu Lys Arg Gln Arg Ser Lys Ser
1      5      10      15
Met Lys Ser Tyr Gln Arg Gln Phe Ile Glu Phe Ala Leu Asn Lys Gln
20      25      30
Val Leu Lys Phe Gly Glu Phe Thr Leu Lys Ser Gly Arg Lys Ser Pro
35      40      45
Tyr Phe Phe Asn Ala Gly Leu Phe Asn Thr Gly Arg Asp Leu Ala Leu
50      55      60
Leu Gly Arg Phe Tyr Ala Glu Ala Leu Val Asp Ser Gly Ile Asp Phe
65      70      75      80
Asp Leu Leu Phe Gly Pro Ala Tyr Lys Gly Ile Pro Ile Ala Thr Thr
85      90      95
Thr Ala Val Ala Leu Ala Glu His His Asp Arg Asp Val Pro Tyr Cys
100     105     110

```

Phe Asn Arg Lys Glu Ala Lys Thr His Gly Glu Gly Gly Asn Leu Val
 115 120 125
 Gly Ser Ala Leu Gln Gly Arg Val Met Leu Val Asp Asp Val Ile Thr
 130 135 140
 Ala Gly Thr Ala Ile Arg Glu Ser Met Glu Ile Ile Gln Ala Asn Gly
 145 150 155 160
 Ala Thr Leu Ala Gly Val Leu Ile Ser Leu Asp Arg Gln Glu Arg Gly
 165 170 175
 Arg Gly Asp Ile Ser Ala Ile Gln Glu Val Glu Arg Asp Tyr Asn Cys
 180 185 190
 Lys Val Thr Ser Ile Ile Thr Leu Lys Asp Leu Ile Ala Tyr Leu Glu
 195 200 205
 Glu Lys Pro Glu Met Ala Asp His Leu Ala Ala Val Arg Gln Tyr Arg
 210 215 220
 Glu Glu Phe Gly Val
 225 230

<210> 7105

<211> 73

<212> PRT

<213> Enterobacter cloacae

<400> 7105

Arg Thr Pro Asp Ile Val Ala Gly Val Ala Ala Leu Lys Thr Leu Val
 1 5 10 15
 Pro Asn Val Val Gly Phe Ala Ala Glu Thr Asn Asn Val Glu Glu Tyr
 20 25 30
 Ala Arg Gln Lys Arg Thr Arg Lys Asn Leu Asp Leu Ile Cys Ala Asn
 35 40 45
 Asp Val Ser Leu Ser Thr Gln Gly Phe Asn Ser Asp Arg Gln Arg Ile
 50 55 60
 Ala Pro Phe Leu Ala Gly Trp Arg
 65 70

<210> 7106

<211> 228

<212> PRT

<213> Enterobacter cloacae

<400> 7106

Cys Asn Asn Lys Pro Gln Thr Ser Val Cys Gly Ser Leu Cys Gly Cys
 1 5 10 15
 Gln Pro Asp Lys Cys Leu Phe Ser Gly Val Phe Cys Asn Met Ala Glu
 20 25 30
 Lys Gln Thr Ala Lys Arg Asn Arg Arg Glu Glu Ile Leu Gln Ser Leu
 35 40 45
 Ala Leu Met Leu Glu Ser Ser Asp Gly Ser Gln Arg Ile Thr Thr Ala
 50 55 60
 Lys Leu Ala Ala Ser Val Gly Val Ser Glu Ala Ala Leu Tyr Arg His
 65 70 75 80
 Phe Pro Ser Lys Thr Arg Met Phe Asp Ser Leu Ile Glu Phe Ile Glu
 85 90 95
 Asp Ser Leu Ile Thr Arg Ile Asn Leu Ile Leu Lys Asp Glu Lys Asp
 100 105 110
 Thr Ser Thr Arg Leu Arg Leu Ile Val Leu Leu Ile Leu Gly Phe Gly
 115 120 125
 Glu Arg Asn Pro Gly Leu Thr Arg Ile Leu Thr Gly His Ala Leu Met
 130 135 140
 Phe Glu Gln Asp Arg Leu Gln Gly Arg Ile Asn Gln Leu Phe Glu Arg
 145 150 155 160
 Ile Glu Ala Gln Leu Arg Gln Val Leu Arg Glu Lys Lys Met Arg Glu

				165					170					175
Asp	Glu	Gly	Tyr	Asn	Thr	Asp	Glu	Thr	Leu	Leu	Ala	Ser	Gln	Ile
			180						185				190	
Ala	Phe	Cys	Glu	Gly	Met	Leu	Ser	Arg	Phe	Val	Arg	Ser	Glu	Phe
		195					200					205		Lys
Tyr	Arg	Pro	Thr	Asp	Asp	Phe	Asp	Ala	Arg	Trp	Pro	Leu	Val	Ala
	210					215					220		Ala	Ala
Gln	Leu	Gln												
225														

<210> 7107

<211> 306

<212> PRT

<213> Enterobacter cloacae

<400> 7107

Glu	Ala	Pro	Glu	Ser	Tyr	Asn	Pro	Pro	Ile	Ser	Pro	Leu	Lys	Thr	Gly
1			5						10					15	
Met	Ser	Met	Ile	Arg	Ser	Met	Thr	Ala	Tyr	Ala	Arg	Arg	Glu	Ile	Lys
			20					25					30		
Gly	Ser	Trp	Gly	Ser	Ala	Thr	Trp	Glu	Met	Arg	Ser	Val	Asn	Gln	Arg
		35					40					45			
Tyr	Leu	Glu	Thr	Tyr	Phe	Arg	Met	Pro	Glu	Gln	Phe	Arg	Ser	Leu	Glu
	50					55					60				
Pro	Val	Val	Arg	Glu	Arg	Ile	Arg	Thr	Arg	Leu	Thr	Arg	Gly	Lys	Val
65					70					75				80	
Glu	Cys	Asn	Leu	Arg	Phe	Glu	Pro	Asp	Ala	Ser	Ala	Gln	Gly	Glu	Leu
			85						90				95		
Ile	Leu	Asn	Glu	Lys	Leu	Ala	Lys	Gln	Leu	Val	Asn	Ala	Ala	Asn	Trp
			100					105					110		
Val	Lys	Met	Gln	Ser	Asp	Glu	Gly	Glu	Ile	Asn	Pro	Val	Asp	Ile	Leu
	115						120					125			
Arg	Trp	Pro	Gly	Val	Met	Ala	Ala	Gly	Glu	Gln	Asp	Leu	Asp	Ala	Ile
	130					135					140				
Thr	Ala	Glu	Ile	Leu	Ala	Ala	Leu	Asp	Gly	Thr	Leu	Asp	Asp	Phe	Ile
145					150					155				160	
Val	Ala	Arg	Glu	Thr	Glu	Gly	Gln	Ala	Leu	Lys	Ala	Met	Ile	Glu	Gln
				165					170					175	
Arg	Leu	Glu	Gly	Val	Ser	Ala	Glu	Val	Ala	Lys	Val	Arg	Ala	His	Met
			180					185					190		
Pro	Glu	Val	Leu	Gln	Trp	Gln	Arg	Glu	Arg	Leu	Val	Ala	Lys	Leu	Glu
		195				200						205			
Glu	Ala	Glu	Val	Gln	Leu	Glu	Asn	Asn	Arg	Leu	Glu	Gln	Glu	Leu	Val
	210					215					220				
Leu	Met	Ala	Gln	Arg	Val	Asp	Val	Ala	Glu	Glu	Leu	Asp	Arg	Leu	Glu
225				230						235				240	
Ala	His	Val	Lys	Glu	Thr	Tyr	Asn	Ile	Leu	Lys	Lys	Lys	Glu	Ala	Val
				245					250					255	
Gly	Arg	Arg	Leu	Asp	Phe	Met	Met	Gln	Glu	Phe	Asn	Arg	Glu	Ser	Asn
			260					265					270		
Thr	Leu	Ala	Ser	Lys	Ser	Ile	Asn	Ala	Glu	Val	Thr	Asn	Ser	Ala	Ile
	275						280					285			
Glu	Leu	Lys	Val	Leu	Ile	Glu	Gln	Met	Arg	Glu	Gln	Ile	Gln	Asn	Ile
	290					295						300			
Glu															
305															

<210> 7108

<211> 193

<212> PRT

<213> Enterobacter cloacae

<400> 7108

His Ile Gln Lys Thr Leu Met Ala Gln Gly Thr Leu Tyr Ile Val Ser
 1 5 10 15
 Ala Pro Ser Gly Ala Gly Lys Ser Ser Leu Ile Gln Ala Leu Leu Lys
 20 25 30
 Thr Gln Pro Leu Tyr Asp Thr Gln Val Ser Val Ser His Thr Thr Arg
 35 40 45
 Ala Pro Arg Pro Gly Glu Val His Gly Glu His Tyr Phe Phe Val Asn
 50 55 60
 His Asp Glu Phe Arg Ala Met Ile Gly Arg Asp Ala Phe Leu Glu His
 65 70 75 80
 Ala Glu Val Phe Gly Asn Tyr Tyr Gly Thr Ser Arg Glu Thr Ile Glu
 85 90 95
 Gln Val Leu Ala Thr Gly Val Asn Val Phe Leu Asp Ile Asp Trp Gln
 100 105 110
 Gly Ala Gln Gln Ile Arg Lys Lys Met Pro Asp Ser Arg Ser Ile Phe
 115 120 125
 Ile Leu Pro Pro Ser Lys Asp Glu Leu Asp Arg Arg Leu Arg Gly Arg
 130 135 140
 Gly Gln Asp Ser Glu Glu Val Ile Ala Lys Arg Met Ala Gln Ala Val
 145 150 155 160
 Ala Glu Met Ser His Tyr Ala Glu Tyr Asp Tyr Leu Ile Val Asn Asp
 165 170 175
 Asp Phe Asp Ala Pro Leu Ser Asp Arg Phe His Gln Arg Arg Pro Glu
 180 185 190
 Gly

<210> 7109

<211> 215

<212> PRT

<213> Enterobacter cloacae

<400> 7109

Ser Pro Ser Leu His Ser Gly Gly Phe Met Leu Leu His Ile Leu Tyr
 1 5 10 15
 Leu Ile Gly Ile Thr Ala Glu Ala Met Thr Gly Ala Leu Ala Ala Gly
 20 25 30
 Arg Arg Arg Met Asp Thr Phe Gly Val Ile Ile Ile Ala Thr Ala Thr
 35 40 45
 Ala Leu Gly Gly Gly Ser Val Arg Asp Ile Leu Leu Gly His Tyr Pro
 50 55 60
 Leu Gly Trp Val Lys Asn Pro Glu Tyr Val Ile Val Ala Thr Ala
 65 70 75 80
 Ala Val Leu Thr Thr Ile Val Ala Pro Val Met Pro His Leu Arg Arg
 85 90 95
 Val Phe Leu Val Leu Asp Ala Leu Gly Leu Ile Val Phe Ser Ile Ile
 100 105 110
 Gly Ala Gln Ile Ala Leu Asp Met Gly Glu Gly Pro Val Ile Ala Thr
 115 120 125
 Ile Ala Ala Val Ile Thr Gly Val Phe Gly Gly Val Leu Arg Asp Met
 130 135 140
 Phe Cys Lys Arg Ile Pro Leu Val Phe Gln Lys Glu Leu Tyr Ala Gly
 145 150 155 160
 Ile Ser Phe Ala Ala Val Leu Tyr Val Ala Leu Gln His Tyr Val
 165 170 175
 Thr Ser His Asp Val Val Val Ile Ser Thr Leu Leu Phe Gly Phe Thr
 180 185 190
 Ala Arg Met Leu Ala Leu Arg Leu Lys Leu Gly Leu Pro Val Phe His
 195 200 205

Tyr Lys His Asn Ala His
210 215

<210> 7110

<211> 190

<212> PRT

<213> Enterobacter cloacae

<400> 7110

Gln	Arg	Gln	Ala	Thr	His	Cys	Thr	Phe	Ser	Gly	Arg	Met	Glu	Ile	Lys
1				5					10					15	
Ser	Tyr	Arg	Leu	Ser	Ala	Lys	Asn	Ser	Trp	Ala	Asn	Thr	Tyr	Trp	Thr
		20						25					30		
Arg	Ser	Leu	Pro	Val	Met	Met	Lys	Lys	Ile	Asp	Val	Lys	Ile	Leu	Asp
		35					40					45			
Pro	Arg	Val	Gly	Glu	Gln	Phe	Pro	Leu	Pro	Thr	Tyr	Ala	Thr	Ser	Gly
		50				55					60				
Ser	Ala	Gly	Leu	Asp	Leu	Arg	Ala	Cys	Leu	Asp	Asp	Ala	Val	Glu	Leu
65					70					75				80	
Ala	Pro	Gly	Ala	Thr	Thr	Leu	Ile	Pro	Thr	Gly	Leu	Ala	Ile	His	Ile
				85					90					95	
Ala	Asp	Pro	Ser	Leu	Ala	Ala	Val	Ile	Leu	Pro	Arg	Ser	Gly	Leu	Gly
				100				105					110		
His	Lys	His	Gly	Val	Val	Leu	Gly	Asn	Leu	Val	Gly	Leu	Ile	Asp	Ser
		115					120					125			
Asp	Tyr	Gln	Gly	Gln	Leu	Met	Val	Ser	Val	Trp	Asn	Arg	Gly	Gln	Asp
		130				135					140				
Ser	Phe	Thr	Ile	Glu	Pro	Gly	Glu	Arg	Ile	Ala	Gln	Met	Val	Phe	Val
145					150					155					160
Pro	Val	Val	Gln	Ala	Glu	Phe	Asn	Leu	Val	Ala	Asp	Phe	Asp	Ala	Thr
				165				170						175	
Asp	Arg	Gly	Glu	Gly	Gly	Phe	Gly	His	Ser	Gly	Arg	Lys			
		180					185						190		

<210> 7111

<211> 526

<212> PRT

<213> Enterobacter cloacae

<400> 7111

Phe	Ala	Ala	Gly	Glu	Cys	Phe	Pro	Arg	Met	Arg	Ile	Ser	Phe	Ser	Val
1				5					10					15	
Leu	Ala	Ser	Pro	Ser	Asp	Asp	Phe	Met	Asp	Ala	Leu	Leu	Gln	Leu	Lys
		20						25					30		
Gly	Ile	Asp	Lys	Ser	Phe	Pro	Gly	Val	Lys	Ala	Leu	Ser	Gly	Ala	Ala
		35					40					45			
Leu	Asn	Val	Tyr	Ser	Gly	Arg	Val	Met	Ala	Leu	Val	Gly	Glu	Asn	Gly
		50				55					60				
Ala	Gly	Lys	Ser	Thr	Met	Met	Lys	Val	Leu	Thr	Gly	Ile	Tyr	Gln	Arg
65					70					75				80	
Asp	Ala	Gly	Ser	Leu	Leu	Trp	Leu	Gly	Lys	Glu	Thr	Thr	Phe	Asn	Gly
				85				90					95		
Pro	Lys	Ser	Ser	Gln	Glu	Ala	Gly	Ile	Gly	Ile	Ile	His	Gln	Glu	Leu
			100				105					110			
Asn	Leu	Ile	Pro	Gln	Leu	Thr	Ile	Ala	Glu	Asn	Ile	Phe	Leu	Gly	Arg
		115					120					125			
Glu	Phe	Val	Asn	Arg	Phe	Gly	Lys	Ile	Asp	Trp	Lys	Thr	Met	Tyr	Ala
		130				135					140				
Glu	Ala	Asp	Lys	Leu	Leu	Ala	Lys	Leu	Asn	Leu	Arg	Phe	Lys	Ser	Asp
145					150					155					160
Arg	Leu	Val	Gly	Asp	Leu	Ser	Ile	Gly	Asp	Gln	Gln	Met	Val	Glu	Ile

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      165      170      175
Ala Lys Val Leu Ser Phe Glu Ser Lys Val Ile Ile Met Asp Glu Pro
      180      185      190
Thr Asp Ala Leu Thr Asp Thr Glu Thr Glu Ser Leu Phe Arg Val Ile
      195      200      205
Arg Glu Leu Lys Ser Gln Gly Arg Gly Ile Val Tyr Ile Ser His Arg
      210      215      220
Met Lys Glu Ile Phe Glu Ile Cys Asp Asp Val Thr Val Phe Arg Asp
      225      230      235      240
Gly Gln Phe Ile Ala Glu Arg Glu Val Ala Thr Leu Thr Glu Asp Ser
      245      250      255
Leu Ile Glu Met Met Val Gly Arg Lys Leu Glu Asp Gln Tyr Pro His
      260      265      270
Leu Glu Lys Ala Pro Gly Glu Ile Arg Leu Lys Val Asp Asn Leu Cys
      275      280      285
Gly Pro Gly Val Asn Asp Val Ser Phe Thr Leu Arg Lys Gly Glu Ile
      290      295      300
Leu Gly Val Ala Gly Leu Met Gly Ala Gly Arg Thr Glu Leu Met Lys
      305      310      315      320
Val Leu Tyr Gly Ala Leu Pro Arg Thr Ser Gly Tyr Val Thr Leu Asp
      325      330      335
Gly His Glu Val Val Thr Arg Ser Pro Gln Asp Gly Leu Ala Asn Gly
      340      345      350
Ile Val Tyr Ile Ser Glu Asp Arg Lys Arg Asp Gly Leu Val Leu Gly
      355      360      365
Met Ser Val Lys Glu Asn Met Ser Leu Thr Ala Leu Gly Tyr Phe Ser
      370      375      380
Arg Ser Gly Gly Ser Leu Lys His Lys Asp Glu Gln Gln Ala Val Ser
      385      390      395      400
Asp Phe Ile Arg Leu Phe Asn Val Lys Thr Pro Ser Met Glu Gln Ala
      405      410      415
Ile Gly Leu Leu Ser Gly Gly Asn Gln Gln Lys Val Ala Ile Ala Arg
      420      425      430
Gly Leu Met Thr Arg Pro Lys Val Leu Ile Leu Asp Glu Pro Thr Arg
      435      440      445
Gly Val Asp Val Gly Ala Lys Lys Glu Ile Tyr Gln Leu Ile Asn Gln
      450      455      460
Phe Lys Ala Asp Gly Leu Ser Ile Ile Leu Val Ser Ser Glu Met Pro
      465      470      475      480
Glu Val Leu Gly Met Ser Asp Arg Ile Ile Val Met His Glu Gly His
      485      490      495
Leu Gly Gly Glu Phe Thr Arg Glu Gln Ala Thr Gln Glu Val Leu Met
      500      505      510
Ala Ala Ala Val Gly Lys Leu Asn Arg Val Asn Gln Glu
      515      520      525

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<210> 7112

<211> 90

<212> PRT

<213> Enterobacter cloacae

<400> 7112

```

Ser Ser Pro Ser Ala Ala Val Gly Cys Gly Leu Ala Ser Met Ala Lys
1      5      10      15
Val Val Ala Cys Arg Ala Leu Arg Ser Lys Pro Leu Ile Pro Ser Pro
      20      25      30
Gln Gly Asp Thr Phe Asn Gly Ala Leu Val Thr Ala Leu Leu Glu Gly
      35      40      45
Lys Ala Met Asp Asp Ala Ile Arg Phe Ala His Ala Ala Ala Ala Ile
      50      55      60
Ala Val Thr Arg Lys Gly Ala Gln Pro Ser Val Pro Trp Arg Lys Glu

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<210> 7113
<211> 332
<212> PRT
<213> Enterobacter cloacae
```

Arg 1	Leu	Ala	Thr	Met 5	Lys	Asp	Val	Ala	Arg 10	Met	Ala	Gly	Val	Ser 15	Thr
Ser	Thr	Val	Ser	His	Val	Ile	Asn	Asn 25	Asp	Arg	Phe	Val	Ser 30	Glu	Ala
Ile	Arg	Glu	Lys	Val	Asp	Ala	Ala 40	Ile	Lys	Glu	Leu	Asn 45	Tyr	Ala	Pro
Ser	Ala 50	Leu	Ala	Arg	Ser	Leu 55	Lys	Leu	Asn	Gln 60	Thr	Arg	Thr	Ile	Gly
Met 65	Leu	Ile	Thr	Ala	Ser 70	Thr	Asn	Pro	Phe	Tyr 75	Ser	Glu	Leu	Val	Arg
Gly	Val	Glu	Arg	Ser 85	Cys	Phe	Glu	Arg	Gly 90	Tyr	Ser	Leu	Val	Leu 95	Cys
Asn	Thr	Glu	Gly 100	Asp	Glu	Gln	Arg	Met 105	Asn	Arg	Asn	Leu	Glu 110	Thr	Leu
Met	Gln 115	Lys	Arg	Val	Asp	Gly 120	Leu	Leu	Leu	Cys 125	Thr	Glu	Thr	His	
Gln	Pro 130	Ser	Lys	Glu	Ile	Ile 135	Gln	Arg	Tyr	Pro 140	Ser	Ile	Pro	Thr	Val
Met 145	Met	Asp	Trp	Ala 150	Pro	Phe	Asp	Gly	Thr 155	Ser	Asp	Leu	Ile	Gln 160	Asp
Asn	Ser	Leu	Leu	Gly 165	Gly	Asp	Met	Ala	Thr 170	Gln	His	Leu	Ile	Asp 175	Lys
Gly	His	Thr 180	Arg	Ile	Ala	Cys	Ile 185	Thr	Gly 190	Pro	Leu	Asp	Lys 195	Thr	Pro
Ala	Arg 195	Leu	Arg	Leu	Glu	Gly	Tyr 200	Leu	Ser	Ala	Met 205	Glu	Arg	Ala	Gly
Leu 210	Ala	Ile	Pro	Asp	Gly	Tyr 215	Arg	Ile	Thr	Gly 220	Asp	Phe	Glu	Phe	Asn
Gly 225	Gly	Phe	Glu	Ala 230	Met	Gln	Lys	Leu	Leu	Ala 235	Gln	Glu	Pro	Arg	Pro
Gln	Ala	Val	Phe	Ile 245	Gly	Asn	Asp	Ala	Met 250	Ala	Phe	Gly	Ala 255	Tyr	Gln
Ala	Leu	Tyr 260	Gln	Ala	Gly	Leu	Arg 265	Val	Pro	Asp	Asp	Met 270	Ala	Ile	Val
Gly	Tyr 275	Asp	Asp	Ile	Glu	Leu	Ala 280	Arg	Tyr	Met	Thr 285	Pro	Pro	Leu	Thr
Thr	Ile 290	His	Gln	Pro	Lys	Asp 295	Glu	Leu	Gly	Glu 300	Leu	Ala	Ile	Asp	Val
Leu 305	Ile	His	Arg	Met 310	Ala	Gln	Pro	Thr	Leu	Gln 315	Gln	Gln	Arg	Leu	Gln
Leu	Thr	Pro	Val	Leu 325	Met	Glu	Arg	Gly 330	Ser	Val					

<400> 7114

Ser Met Ser Thr Asp Asn Lys Gln Ser Leu Pro Ala Val Thr Leu Ala
1 5 10 15

Ala Ile Gly Val Val Tyr Gly Asp Ile Gly Thr Ser Pro Leu Tyr Thr
 20 25 30
 Leu Arg Glu Cys Leu Ser Gly Gln Phe Gly Phe Gly Val Glu Arg Asp
 35 40 45
 Ala Val Phe Gly Phe Leu Ser Leu Ile Phe Trp Leu Leu Ile Leu Val
 50 55 60
 Val Ser Leu Lys Tyr Leu Ser Phe Val Met Arg Ala Asp Asn Ala Gly
 65 70 75 80
 Glu Gly Gly Ile Leu Thr Leu Met Ser Leu Ala Gly Arg Asn Thr Ser
 85 90 95
 Ala Arg Met Thr Ser Val Leu Val Ile Ile Gly Leu Ile Gly Gly Ser
 100 105 110
 Phe Phe Tyr Gly Glu Val Val Ile Thr Pro Ala Ile Ser Val Met Ser
 115 120 125
 Ala Ile Lys Gly Leu Glu Ile Val Ala Pro Gln Leu Asp Thr Trp Val
 130 135 140
 Val Pro Leu Ala Ile Ile Val Leu Thr Leu Leu Phe Ala Ile Gln Lys
 145 150 155 160
 His Gly Thr Gly Leu Val Gly Lys Leu Phe Ala Pro Ile Met Leu Ala
 165 170 175
 Trp Phe Leu Ile Leu Ala Ala Leu Gly Leu Arg Ser Ile Ile Ala Asn
 180 185 190
 Pro Asp Val Leu His Ala Leu Asn Pro Leu Trp Ala Val His Phe Phe
 195 200 205
 Leu Lys Tyr Lys Val Val Ser Phe Val Ala Leu Gly Ala Val Val Leu
 210 215 220
 Ser Ile Thr Gly Val Glu Ala Leu Tyr Ala Asp Met Gly His Phe Gly
 225 230 235 240
 Lys Leu Pro Ile Arg Val Ala Trp Phe Ser Val Val Leu Pro Ser Leu
 245 250 255
 Val Leu Asn Tyr Phe Gly Gln Gly Ala Leu Leu Leu Ala His Pro Glu
 260 265 270
 Ala Ile Lys Asn Pro Phe Phe Leu Leu Ala Pro Asp Trp Ala Leu Val
 275 280 285
 Pro Met Leu Ile Leu Ala Thr Leu Ala Thr Val Ile Ala Ser Gln Ala
 290 295 300
 Val Ile Ser Gly Val Phe Ser Leu Thr Arg Gln Ala Val Arg Leu Gly
 305 310 315 320
 Tyr Leu Ser Pro Met Arg Ile Ile His Thr Ser Glu Met Glu Ser Gly
 325 330 335
 Gln Ile Tyr Ile Pro Phe Val Asn Trp Leu Leu Tyr Phe Ala Val Val
 340 345 350
 Ile Val Ile Val Ser Phe Glu His Ser Ser Asn Leu Ala Ala Ala Tyr
 355 360 365
 Gly Ile Ala Val Thr Gly Thr Met Val Leu Thr Ser Ile Leu Ser Thr
 370 375 380
 Thr Val Ala Tyr Arg Asn Trp His Trp Asn Lys Phe Leu Val Gly Leu
 385 390 395 400
 Ile Leu Val Gly Phe Leu Cys Ile Asp Val Pro Leu Phe Ser Ala Asn
 405 410 415
 Leu Asp Lys Ile Val Ser Gly Gly Trp Leu Pro Leu Thr Leu Gly Leu
 420 425 430
 Val Met Phe Ile Val Met Thr Thr Trp Lys Ser Glu Arg Phe Arg Leu
 435 440 445
 Leu Arg Arg Met His Glu His Gly Asn Ser Leu Glu Ala Met Ile Ala
 450 455 460
 Ser Leu Glu Lys Ser Pro Pro Val Arg Val Pro Gly Thr Ala Val Tyr
 465 470 475 480
 Met Ser Arg Ala Leu Asn Val Ile Pro Phe Ala Leu Met His Asn Leu
 485 490 495
 Lys His Asn Lys Val Leu His Glu Arg Val Ile Leu Leu Thr Leu Arg

500	505	510
Thr Glu Asp	Asn Val Arg Arg	Val Gln Ile Glu
515	520	525
Gln Leu Ser	Val Val Ala Ser	Tyr Gly Trp Arg
530	535	540
Glu Thr Pro	Asn Val Glu Glu	Val Phe His Arg Cys
545	550	555
Leu Ser Cys	Arg Met Met Glu	Thr Ser Phe Phe Met
565	570	575
Leu Ile Ile	Gly Lys Arg Pro Trp	Tyr Leu Arg Leu Arg
580	585	590
Tyr Leu Ile	Gln Arg Asn Ala	Leu Arg Ala Pro Asp
595	600	605
Ile Pro Pro	Asn Arg Val Ile	Glu Leu Gly Thr Gln
610	615	620

<210> 7115

<211> 277

<212> PRT

<213> Enterobacter cloacae

<400> 7115

Ile Arg Ser	Lys Lys Met	Thr Thr Gln	Ala Val Ser	Gly Arg Arg	Tyr
1	5	10	15		
Phe Thr Lys	Ala Trp Leu	Met Glu Gln	Lys Ser Leu	Ile Ala Leu	Leu
20	25	30			
Val Leu Ile	Ala Ile Val	Ser Thr Met	Ser Pro Asn	Phe Phe Thr	Val
35	40	45			
Asn Asn Leu	Phe Asn Ile	Leu Gln Gln	Thr Ser Val	Asn Ala Ile	Met
50	55	60			
Ala Val Gly	Met Thr Leu	Val Ile Leu	Thr Ser Gly	Ile Asp Leu	Ser
65	70	75			
Val Gly Ser	Leu Leu Ala	Leu Thr Gly	Ala Ile Ala	Ala Ser Ile	Val
85	90	95			
Gly Ile Glu	Val Asn Ala	Leu Val Ala	Val Ala Ala	Ala Leu Ala	Ala
100	105	110			
Gly Ala Ala	Ile Gly Ala	Val Thr Gly	Val Ile Val	Ala Lys Gly	Arg
115	120	125			
Val Gln Ala	Phe Ile Ala	Thr Leu Val	Met Met Leu	Leu Leu Arg	Gly
130	135	140			
Val Thr Met	Val Tyr Thr	Asn Gly Ser	Pro Ile Asn	Thr Gly Phe	Thr
145	150	155			
Asp Asn Ala	Asp Leu Phe	Gly Trp Phe	Gly Ile Gly	Arg Pro Leu	Gly
165	170	175			
Val Pro Thr	Pro Val Trp	Ile Met Ala	Ile Val Phe	Leu Ala Ala	Trp
180	185	190			
Tyr Met Leu	His His Thr	Arg Leu Gly	Arg Tyr Ile	Tyr Ala Leu	Gly
195	200	205			
Gly Asn Glu	Ala Ala Thr	Arg Leu Ser	Gly Ile Ser	Val Asn Lys	Val
210	215	220			
Lys Ile Ile	Val Tyr Ser	Leu Cys Gly	Leu Leu Ala	Ser Leu Ala	Gly
225	230	235			
Ile Ile Glu	Val Ala Arg	Leu Ser Ser	Ala Gln Pro	Thr Ala Gly	Thr
245	250	255			
Gly Tyr Glu	Leu Asp Ala	Ile Ala Ala	Val Val Leu	Gly Gly Thr	Ser
260	265	270			
Pro Cys Gly	Arg				
275					

<210> 7116

<211> 332

<212> PRT

<213> Enterobacter cloacae

<400> 7116

```

Ile Met Lys Thr Ala Tyr Ile Ala Lys Gln Arg Gln Ile Ser Phe Val
1          5          10          15
Lys Ser His Phe Ser Arg Gln Leu Glu Glu Lys Leu Gly Leu Ile Glu
          20          25          30
Val Gln Ala Pro Ile Leu Ser Arg Val Gly Asp Gly Thr Gln Asp Asn
          35          40          45
Leu Ser Gly Cys Glu Lys Ala Val Gln Val Lys Val Lys Thr Leu Pro
          50          55          60
Asp Ala Gln Phe Glu Val Val His Ser Leu Ala Lys Trp Lys Arg Gln
          65          70          75          80
Thr Leu Gly Gln His Asp Phe Ser Ala Gly Glu Gly Leu Tyr Thr His
          85          90          95
Met Lys Ala Leu Arg Pro Asp Glu Asp Arg Leu Ser Pro Ile His Ser
          100          105          110
Val Tyr Val Asp Gln Trp Asp Trp Glu Arg Val Met Gly Asp Gly Glu
          115          120          125
Arg His Val Gly Thr Leu Lys Ser Thr Val Glu Ala Ile Tyr Ala Gly
          130          135          140
Ile Lys Ala Thr Glu Ala Ala Val Ser Lys Glu Phe Gly Leu Ala Pro
          145          150          155          160
Phe Leu Pro Glu Thr Ile His Phe Val His Ser Gln Glu Leu Leu Ser
          165          170          175
Arg Phe Pro Asp Leu Asp Ala Lys Gly Arg Glu Arg Ala Ile Ala Lys
          180          185          190
Glu Leu Gly Ala Val Phe Leu Ile Gly Ile Gly Gly Lys Leu Ser Asp
          195          200          205
Gly Lys Arg His Asp Val Arg Ala Pro Asp Tyr Asp Asp Trp Ser Thr
          210          215          220
Val Gly Glu Ser Glu Tyr Ala Gly Leu Asn Gly Asp Ile Leu Val Trp
          225          230          235          240
Asn Pro Val Leu Glu Asp Ala Phe Glu Leu Ser Ser Met Gly Ile Arg
          245          250          255
Val Asp Ala Glu Ala Leu Lys Arg Gln Leu Ala Val Thr Gly Asp Glu
          260          265          270
Asp Arg Leu Gln Leu Glu Trp His Gln Ala Leu Leu Arg Gly Glu Met
          275          280          285
Pro Gln Thr Ile Gly Gly Gly Ile Gly Gln Ser Arg Leu Thr Met Leu
          290          295          300
Leu Leu Gln Leu Ser His Ile Gly Gln Val Gln Cys Gly Val Trp Pro
          305          310          315          320
Gln Gln Val Arg Glu Ser Val Gly Ser Leu Leu
          325          330

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<210> 7117

<211> 150

<212> PRT

<213> Enterobacter cloacae

<400> 7117

```

Arg Asn Val Ser Leu Val Glu Gln Lys Met Lys Lys Gly Thr Val Leu
1          5          10          15
Asn Ser Glu Ile Ser Ser Val Ile Ser Arg Leu Gly His Thr Asp Thr
          20          25          30
Leu Val Val Cys Asp Ala Gly Leu Pro Val Pro Arg Ser Thr Thr Arg
          35          40          45
Ile Asp Met Ala Leu Thr Gln Gly Val Pro Ser Phe Met Gln Val Leu
          50          55          60

```


Glu Val Val Thr Ala Glu Met Gln Val Glu Ala Ala Ile Leu Ala Ala
 65 70 75 80
 Glu Ile Lys Gln His Asn Pro Gln Leu His Glu Thr Leu Leu Ser His
 85 90 95
 Ile Glu Gln Leu Gln Gln His Gln Gly Asn Thr Ile Glu Ile Arg Tyr
 100 105 110
 Thr Thr His Glu Gln Cys Lys Gln His Thr Ala His Ser His Ala Val
 115 120 125
 Ile Arg Ser Gly Gly Met Phe Pro Pro Tyr Ala Asn Ile Ile Leu Cys
 130 135 140
 Ala Gly Val Thr Phe
 145 150

<210> 7118

<211> 182

<212> PRT

<213> Enterobacter cloacae

<400> 7118

Pro Trp Cys Thr Pro Thr Ala Ala Arg Leu Ile Pro Ala Leu Pro Ile
 1 5 10 15
 Thr Pro Ile Cys Leu Ala Gly Ser Val Ser Val Ala Arg Trp Val Ser
 20 25 30
 Arg Pro Arg Ser Gly Ser Trp Leu Ser Phe Ser Trp Arg Arg Gly Thr
 35 40 45
 Cys Cys Thr Ile Pro Val Trp Val Val Ile Ser Met Arg Trp Ala Val
 50 55 60
 Thr Lys Arg Gln Arg Ala Cys Pro Val Ser Ala Leu Ile Lys Ser Lys
 65 70 75 80
 Leu Ser Phe Thr Pro Cys Ala Ala Cys Trp Arg Leu Trp Arg Ala Ser
 85 90 95
 Ser Lys Trp Arg Ala Ser Leu Pro His Ser Gln Arg Arg Val Arg Ala
 100 105 110
 Met Ser Trp Met Pro Ser Arg Gln Trp Phe Trp Ala Val Arg Val Leu
 115 120 125
 Ala Gly Gly Lys Gly Arg Ile Val Gly Thr Leu Ile Gly Ala Leu Ile
 130 135 140
 Leu Gly Phe Leu Asn Asn Gly Leu Asn Leu Leu Gly Val Ser Ser Tyr
 145 150 155 160
 Tyr Gln Met Ile Val Lys Ala Val Val Ile Leu Leu Ala Val Leu Val
 165 170 175
 Asp Asn Lys Lys Gln
 180

<210> 7119

<211> 306

<212> PRT

<213> Enterobacter cloacae

<400> 7119

Leu Thr Thr Leu Gln Asp Ile Leu Asp Met Asn Met Lys Lys Leu Ala
 1 5 10 15
 Thr Leu Val Ser Ala Val Ala Leu Ser Ala Thr Val Ser Ala Asn Ala
 20 25 30
 Met Ala Lys Asp Thr Ile Ala Leu Val Val Ser Thr Leu Asn Asn Pro
 35 40 45
 Phe Phe Val Ser Leu Lys Asp Gly Ala Gln Lys Glu Ala Asp Lys Leu
 50 55 60
 Gly Tyr Asn Leu Val Val Leu Asp Ser Gln Asn Asn Pro Ala Lys Glu
 65 70 75 80
 Leu Ala Asn Val Gln Asp Leu Thr Val Arg Gly Thr Lys Ile Leu Leu

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<210> 7120
<211> 299
<212> PRT
<213> Enterobacter cloacae
```

Gly 1	Thr	Pro	Asn	Lys 5	Arg	Lys	Val	Trp	His 10	Thr	Pro	Pro	Gly	Asn 15	Thr
Gly	Gly	Ala	Leu 20	Arg	Trp	Thr	Pro	Gln 25	Tyr	Met	Lys	Thr	Ala 30	Gly	Asn
Leu	Val	Val 35	Leu	Gly	Ser	Ile	Asn 40	Ala	Asp	His	Ile	Leu 45	Asn	Leu	Glu
Thr	Phe 50	Pro	Thr	Pro	Gly	Glu 55	Thr	Val	Thr	Gly	Asn 60	Gln	Tyr	Gln	Val
Ala 65	Phe	Gly	Gly	Lys 70	Gly	Ala	Asn	Gln	Ala	Val 75	Ala	Ala	Gly	Arg	Ser
Gly	Ala	Asn	Ile 85	Ala	Phe	Ile	Ala	Cys 90	Thr	Gly	Asp	Asp	Asp	Thr 95	Gly
Glu	Arg	Val 100	Arg	Lys	Gln	Leu	Ala	Ser 105	Asp	Asn	Ile	Asp	Ile 110	Ala	Pro
Val	Ser	Val 115	Val	Ala	Gly	Glu	Ser	Thr 120	Gly	Val	Ala	Leu 125	Ile	Phe	Val
Asn 130	Ala	Glu	Gly	Glu	Asn	Val 135	Ile	Gly	Ile	His	Ala 140	Gly	Ala	Asn	Ala
Ala 145	Leu	Thr	Thr	Glu	Arg	Val 150	Glu	Ala	Gln	Arg	Gly	Ile	Ile	Ala	Gly
Ala	Glu	Ala	Leu 165	Leu	Met	Gln	Leu	Glu	Ser 170	Pro	Val	Glu	Ser	Val 175	Leu
Ala	Ala	Ala	Lys 180	Ile	Ala	His	Glu	Asn 185	His	Thr	Ser	Val	Val	Leu	Asn
Pro	Ala	Pro	Ala	Arg	Val	Leu	Ser	Asp	Glu	Leu	Leu	Ala	Leu	Val	Asp

```

      195              200              205
Ile Ile Thr Pro Asn Glu Thr Glu Ala Glu Lys Leu Thr Gly Ile Arg
 210              215              220
Val Glu Asn Asp Asp Asp Ala Ala Arg Ala Ala Leu Ala Leu His Asp
 225              230              235              240
Lys Gly Ile Gly Thr Val Ile Ile Thr Leu Gly Ser Arg Gly Val Trp
      245              250              255
Ala Ser Val Asn Gly Glu Gly Arg Arg Val Pro Gly Phe Lys Val Lys
      260              265              270
Ala Ile Asp Thr Ile Ala Ala Gly Arg His Leu Gln Arg Cys Ala Gly
      275              280              285
Asn Gly Ala Ala Gly Arg Lys Ser Asn Gly
 290              295

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<210> 7121

<211> 147

<212> PRT

<213> Enterobacter cloacae

<400> 7121

```

Lys Leu Thr Trp Trp Arg Thr Glu Asp Asn Phe Asn Gln Val Val Asp
 1              5              10              15
His Phe Leu Val Met Arg Ser Ser Leu Glu Pro Gln Ala Cys Leu Leu
      20              25              30
Ala Ala Thr Leu Gly Thr Ala Glu Gln Lys Ala Gln Leu Asn Thr Leu
      35              40              45
Met Glu Glu Met Val Asp Leu Lys Lys His Phe Asn Arg Glu Arg Trp
 50              55              60
Ile Ala Val Asp Met Ala Trp His Glu His Ile Tyr Asn Met Ser Gly
 65              70              75              80
Asn Pro Phe Leu Thr Ser Phe Ala Ser Leu Phe His Ser Val Tyr His
      85              90              95
Thr Tyr Phe Thr Ser Ile Thr Gln Asp Glu Val Val Lys Leu Asn Leu
      100              105              110
His Gln Ala Ile Val Asp Ala Ile Gln Glu Ser Asp Gly Gln Arg Ala
      115              120              125
Leu Ser Ala Cys Gln Ala Leu Leu Ala Ala Pro Thr His Gln Gln Val
      130              135              140
Asn Lys
145

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<210> 7122

<211> 488

<212> PRT

<213> Enterobacter cloacae

<400> 7122

```

Thr Gly Ala Ser Met Leu Thr Leu Asp Thr Leu Asn Val Met Leu Ala
 1              5              10              15
Val Ser Glu Glu Gly Leu Ile Glu Glu Val Val Ile Thr Leu Leu Ala
      20              25              30
Ser Pro Gln Leu Ala Ala Phe Phe Glu Lys Phe Pro Lys Leu Arg Lys
      35              40              45
Ala Met Thr Asp Asp Leu Pro Arg Trp Arg Asp Asn Leu Arg Gln Arg
 50              55              60
Phe Lys Glu Thr Glu Val Pro Pro Glu Leu Thr Glu Glu Val Ala Gly
 65              70              75              80
Tyr Gln Gln Cys Gln Arg Leu Ser Thr Pro Gln Phe Ile Ala Gln Leu
      85              90              95
Gln Gln Thr Leu Thr Leu Leu Asp Asn Val His Ser Pro Phe Ala Ser
      100              105              110

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Gln Ala Arg Ala Leu Val Thr Asp Asn Pro Ser Phe Thr Pro Ala Leu
 115 120 125
 His Thr Leu Phe Leu Gln Arg Trp Arg Leu Ser Leu Val Val Gln Ala
 130 135 140
 Thr Ala Leu Asn Gln Gln Leu Leu Asp Glu Glu Arg Glu Gln Leu Leu
 145 150 155 160
 Ser Glu Val Gln Glu Arg Met Thr Leu Ser Gly Gln Leu Glu Gln Val
 165 170 175
 Leu Val Glu Asn Glu Asn Ala Ala Gly Arg Leu Trp Asp Met Ser Ala
 180 185 190
 Gly Gln Leu Lys Arg Gly Asp Tyr Gln Leu Ile Val Lys Tyr Gly Asp
 195 200 205
 Phe Leu Ala Gln Gln Pro Glu Leu Met Lys Leu Ala Glu Gln Leu Gly
 210 215 220
 Arg Ser Arg Glu Ala Arg Ser Val Pro Lys Lys Asp Ala Pro Met Glu
 225 230 235 240
 Thr Phe Arg Thr Leu Val Arg Lys Pro Ser Thr Val Pro Glu Gln Val
 245 250 255
 Asp Gly Leu Gln Gln Ser Asp Asp Ile Leu Arg Leu Leu Pro Thr Glu
 260 265 270
 Leu Ser Thr Leu Gly Met Thr Glu Leu Glu Tyr Glu Phe Tyr Arg Arg
 275 280 285
 Leu Val Glu Lys Gln Leu Ile Thr Tyr Arg Leu His Gly Glu Ala Trp
 290 295 300
 Arg Glu Lys Ile Ser Gln Arg Pro Val Val His Gln Asp Phe Asp Glu
 305 310 315 320
 Gln Pro Arg Gly Pro Phe Ile Val Cys Val Asp Thr Ser Gly Ser Met
 325 330 335
 Gly Gly Phe Asn Glu Gln Cys Ala Lys Ala Phe Cys Leu Ala Leu Met
 340 345 350
 Arg Val Ala Leu Ala Asp Arg Arg Arg Cys Tyr Ile Met Leu Phe Ser
 355 360 365
 Ser Glu Val Val Gly Tyr Glu Leu Thr Ser Pro Gln Gly Leu Glu Gln
 370 375 380
 Ala Ile Arg Phe Leu Ser Gln Arg Phe Arg Gly Gly Thr Asp Leu Ala
 385 390 395 400
 Ser Cys Phe Arg Ser Ile Ile Glu Arg Met Gln Gly Gly Asp Trp Tyr
 405 410 415
 Asp Ala Asp Ala Val Val Ile Ser Asp Phe Ile Ala Gln Arg Leu Pro
 420 425 430
 Asp Glu Val Val Asn Lys Val Lys Glu Met Gln Arg Val His Gln His
 435 440 445
 Arg Phe His Ala Val Ala Met Ser Ala His Gly Lys Pro Gly Ile Met
 450 455 460
 Arg Ile Phe Asp His Ile Trp Arg Phe Asp Thr Gly Leu Arg Ser Arg
 465 470 475 480
 Leu Leu Arg Arg Trp Arg Arg
 485

<210> 7123

<211> 478

<212> PRT

<213> Enterobacter cloacae

<400> 7123

Met Thr Glu Lys Lys Ala Arg Ser Met Ala Gly Leu Pro Trp Ile Ala
 1 5 10 15
 Ala Met Ala Phe Phe Met Gln Ala Leu Asp Ala Thr Ile Leu Asn Thr
 20 25 30
 Ala Leu Pro Ala Ile Ala Gln Ser Leu Asn Arg Ser Pro Leu Ala Met
 35 40 45

Gln Ser Ala Ile Ile Ser Tyr Thr Leu Thr Val Ala Met Leu Ile Pro
 50 55 60
 Val Ser Gly Trp Leu Ala Asp Arg Phe Gly Thr Arg Lys Val Phe Met
 65 70 75 80
 Leu Ala Val Thr Leu Phe Thr Leu Gly Ser Leu Ala Cys Ala Leu Ser
 85 90 95
 Thr Ser Leu Thr Glu Leu Val Ile Phe Arg Val Leu Gln Gly Ile Gly
 100 105 110
 Gly Ala Met Met Met Pro Val Ala Arg Leu Ala Leu Leu Arg Ala Tyr
 115 120 125
 Pro Arg Ser Glu Leu Leu Pro Val Leu Asn Phe Val Thr Met Pro Gly
 130 135 140
 Leu Val Gly Pro Ile Leu Gly Pro Val Leu Gly Gly Val Leu Val Thr
 145 150 155 160
 Trp Ala Ser Trp His Trp Ile Phe Leu Ile Asn Ile Pro Ile Gly Val
 165 170 175
 Ala Gly Leu Ile Tyr Ala Arg Lys Tyr Met Pro Asn Phe Thr Thr Pro
 180 185 190
 Arg Arg Ser Phe Asp Met Gly Gly Phe Phe Leu Phe Gly Leu Ser Leu
 195 200 205
 Val Leu Phe Ser Ser Gly Met Glu Leu Phe Gly Glu Lys Ile Val Ser
 210 215 220
 Thr Trp Leu Ala Leu Ala Val Ile Leu Ser Gly Ile Leu Leu Phe Leu
 225 230 235 240
 Leu Tyr Ile Arg His Ala Arg Arg His Pro Thr Pro Leu Ile Ser Leu
 245 250 255
 Ser Leu Phe Asn Thr Arg Thr Phe Ser Val Gly Ile Ala Gly Asn Ile
 260 265 270
 Ala Ser Arg Leu Gly Thr Gly Cys Val Pro Phe Leu Met Pro Leu Met
 275 280 285
 Leu Gln Val Gly Phe Gly Tyr Pro Ala Leu Ile Ala Gly Cys Met Met
 290 295 300
 Ala Pro Thr Ala Met Gly Ser Ile Leu Ala Lys Ser Thr Val Thr Gln
 305 310 315 320
 Val Leu Arg Trp Phe Gly Tyr Arg Lys Thr Leu Val Gly Val Thr Ile
 325 330 335
 Phe Ile Gly Leu Met Ile Ala Gln Phe Ser Leu Gln Ser Ala Ala Leu
 340 345 350
 Pro Ile Trp Met Leu Ile Leu Pro Leu Phe Val Leu Gly Met Ala Met
 355 360 365
 Ser Thr Gln Phe Thr Ser Met Asn Thr Ile Thr Leu Ala Asp Leu Thr
 370 375 380
 Asp Glu Asn Ala Ser Ser Gly Asn Ser Val Leu Ala Val Thr Gln Gln
 385 390 395 400
 Leu Ser Ile Ser Leu Gly Val Ala Val Ser Ala Ala Val Leu Arg Phe
 405 410 415
 Tyr Glu Gly Phe Asp Gly Thr Asn Thr Val Glu Gln Phe His Tyr Thr
 420 425 430
 Phe Ile Thr Met Gly Ala Leu Thr Val Val Ser Ala Val Val Phe Met
 435 440 445
 Leu Leu Lys Pro Lys Asp Gly Arg Asn Leu Ile Lys Glu Arg His Lys
 450 455 460
 Glu Lys Ala Lys Pro Asn Arg Val Pro Ser Glu Gln Glu
 465 470 475

<210> 7124

<211> 529

<212> PRT

<213> Enterobacter cloacae

<400> 7124

Arg Arg Thr Ser Ala Tyr Tyr Gln Ala Arg Pro Lys Arg Leu Tyr Ser
 1 5 10 15
 Leu Gln Leu Ala Ala Thr Thr Ala Lys Gly Cys Lys Thr Ile Met Ala
 20 25 30
 His Ser His Leu Leu Ala Glu Arg Ile Ser Arg Leu Ser Ser Ala Leu
 35 40 45
 Glu Lys Gly Leu Tyr Glu Arg Ser His Ala Ile Arg Leu Cys Leu Leu
 50 55 60
 Ala Ala Leu Ser Gly Glu Ser Val Phe Leu Leu Gly Pro Pro Gly Ile
 65 70 75 80
 Ala Lys Ser Leu Ile Ala Arg Arg Leu Lys Phe Ala Phe Gln Asn Ala
 85 90 95
 Arg Ala Phe Glu Tyr Leu Met Thr Arg Phe Ser Thr Pro Glu Glu Val
 100 105 110
 Phe Gly Pro Leu Ser Ile Gln Ala Leu Lys Asp Glu Gly Arg Tyr Glu
 115 120 125
 Arg Leu Thr Ala Gly Tyr Leu Pro Glu Ala Glu Ile Val Phe Leu Asp
 130 135 140
 Glu Ile Trp Lys Ala Gly Pro Ala Ile Leu Asn Thr Leu Leu Thr Ala
 145 150 155 160
 Ile Asn Glu Arg Arg Phe Arg Asn Gly Ala Ser Glu Glu Lys Ile Pro
 165 170 175
 Met Arg Leu Leu Val Ala Ala Ser Asn Glu Leu Pro Glu Ala Asp Ser
 180 185 190
 Ser Leu Glu Ala Leu Tyr Asp Arg Met Leu Ile Arg Leu Trp Leu Asp
 195 200 205
 Lys Val Gln Asp Lys Ser Asn Phe Arg Ser Met Leu Val Ser Gln Gln
 210 215 220
 Asp Glu Asn Glu Asn Pro Val Ala Ala Ser Leu Gln Val Thr Asp Glu
 225 230 235 240
 Glu Tyr His Gln Trp Gln Glu Glu Ile Gly Lys Ile Lys Leu Pro Asp
 245 250 255
 Pro Val Phe Glu Leu Ile Phe Met Leu Arg Gln Gln Leu Asp Leu Leu
 260 265 270
 Pro Ser Ala Pro Tyr Val Ser Asp Arg Arg Trp Lys Lys Ala Ile Arg
 275 280 285
 Leu Leu Gln Ala Ser Ala Leu Phe Ser Gly Arg Asp Ala Val Ala Pro
 290 295 300
 Ile Asp Leu Ile Leu Leu Lys Asp Cys Leu Trp His Asp Ala Glu Gly
 305 310 315 320
 Met Asn Leu Met Gln Gln Gln Leu Asp Val Leu Met Thr Gly His Ala
 325 330 335
 Trp Gly Gln Gln Ser Met Leu Asn Gln Leu Gly Ala Ile Ala Gln Arg
 340 345 350
 Arg Leu Gln Leu Gln Gln Gln Ser Asp Lys Thr Ala Leu Lys Val
 355 360 365
 Asn Arg Leu Gly Gly Met Phe Ala Arg Lys Pro His Tyr Glu Leu Pro
 370 375 380
 Ala Gly Leu Thr Asp Ala Ser Leu Thr Leu Leu Leu Gln Gln Pro Leu
 385 390 395 400
 Lys Leu His Asp Met Gln Val Val His Val Thr Ile Glu Arg Val Ala
 405 410 415
 Leu Val Gln Trp Leu Asp Lys Gly Gly Glu Ile Arg Gly Lys Leu Asn
 420 425 430
 Gly Ile Gly Phe Ala Gln Pro Leu Ser Met Glu Val Asp Ser Ser Gln
 435 440 445
 His Leu Val Ile Arg Asp Val Ser Leu Gln Gly Ser Arg Leu Ala Leu
 450 455 460
 Pro Gly Thr Ala Ser Asp Thr Val Pro Glu Glu Ile Lys Gln Gln Leu
 465 470 475 480
 Asp Ala Leu Asp Asn Glu Trp His Gln Gln His Thr Arg Phe Ser Glu

				485					490					495			
Gln	Gln	Lys	Cys	Leu	Phe	Ile	His	Ser	Asp	Trp	Leu	Gly	Arg	Ile	Glu		
			500					505					510				
Ala	Ser	Leu	Gln	Asp	Val	Ser	Ala	Gln	Ile	Lys	Gln	Ala	Arg	Gln	Cys		
		515					520					525					

<210> 7125

<211> 156

<212> PRT

<213> Enterobacter cloacae

<400> 7125

Glu	Lys	Pro	Met	Glu	Asn	Tyr	Gln	Ile	Asp	Asn	Leu	Asp	Arg	Gly	Ile		
1				5					10					15			
Leu	Glu	Ala	Leu	Met	Ala	Asn	Ala	Arg	Thr	Ala	Tyr	Ala	Glu	Leu	Asp		
		20						25					30				
Lys	Gln	Phe	Gly	Val	Ser	Pro	Gly	Thr	Ile	His	Val	Arg	Val	Glu	Lys		
		35					40					45					
Met	Lys	Gln	Ala	Gly	Ile	Ile	Thr	Gly	Ala	Arg	Ile	Asp	Val	Ser	Pro		
	50					55					60						
Lys	Gln	Phe	Gly	Tyr	Asp	Val	Cys	Cys	Phe	Ile	Gly	Ile	Ile	Met	Lys		
65					70				75					80			
Ser	Ala	Lys	Asp	Tyr	Pro	Ser	Ala	Leu	Glu	Lys	Leu	Asn	Ala	Leu	Asp		
				85					90					95			
Glu	Val	Thr	Glu	Ala	Tyr	Tyr	Thr	Thr	Gly	His	Tyr	Ser	Ile	Phe	Ile		
			100					105					110				
Lys	Val	Met	Cys	Arg	Ser	Ile	Asp	Ala	Leu	Gln	Gln	Val	Leu	Ile	Asn		
		115					120					125					
Lys	Ile	Gln	Thr	Ile	Asp	Glu	Ile	Gln	Ser	Thr	Glu	Thr	Leu	Ile	Ser		
	130					135					140						
Leu	Gln	Asn	Pro	Ile	Met	Arg	Thr	Ile	Arg	Pro							
145					150				155								

<210> 7126

<211> 180

<212> PRT

<213> Enterobacter cloacae

<400> 7126

Ser	Gly	Asn	Phe	Ile	Pro	Thr	Phe	Ser	Thr	Gly	Arg	Ser	Gln	Leu	Val		
1				5					10					15			
His	Ser	Val	Gln	Trp	Pro	Pro	Leu	Tyr	Leu	Ser	Glu	Arg	Ser	Met	Ala		
		20						25					30				
Asp	Ile	Thr	Leu	Ile	Ser	Gly	Ser	Thr	Leu	Gly	Gly	Ala	Glu	Tyr	Val		
		35				40					45						
Ala	Glu	His	Leu	Ala	Glu	Lys	Leu	Glu	Asp	Ala	Gly	Phe	Ser	Thr	Gln		
	50					55					60						
Thr	Leu	His	Gly	Pro	Leu	Leu	Glu	Asp	Leu	Pro	Thr	Asp	Gly	Val	Trp		
65					70				75					80			
Leu	Leu	Ile	Thr	Ser	Thr	His	Gly	Ala	Gly	Asp	Leu	Pro	Asp	Asn	Leu		
			85					90						95			
Gln	Pro	Leu	Tyr	Asp	Glu	Leu	Leu	Glu	Gln	Gln	Pro	Asp	Leu	Ser	Asn		
		100						105					110				
Val	Arg	Phe	Gly	Ala	Val	Gly	Ile	Gly	Ser	Arg	Glu	Tyr	Asp	Thr	Phe		
		115					120					125					
Cys	Gly	Ala	Ile	Glu	Lys	Val	Glu	Ala	Ala	Val	Thr	Ala	Cys	Gly	Ala		
	130					135					140						
Lys	Gln	Leu	Gly	Glu	Thr	Leu	Lys	Ile	Asn	Ile	Leu	Asp	His	Asp	Ile		
145					150				155						160		

Pro Glu Asp Pro Ala Glu Ile Trp Leu Ala Glu Trp Lys Asn Leu Leu
 165 170 175
 Lys Asn Asp
 180

<210> 7127
 <211> 326
 <212> PRT
 <213> Enterobacter cloacae

<400> 7127

Trp His Val Val Ser Arg Ser Leu Arg Tyr Leu His Arg Leu Tyr Ile
 1 5 10 15
 Gly Ser Thr Ile Leu Ser Gln Ser Lys Phe Gln Arg Ala Phe Leu His
 20 25 30
 Pro Arg Tyr Trp Phe Thr Trp Phe Gly Leu Gly Val Leu Trp Leu Leu
 35 40 45
 Val Gln Leu Pro Tyr Pro Val Ile Arg Phe Leu Gly Ser Lys Leu Gly
 50 55 60
 Ser Ala Ser Arg His Phe Leu Lys Arg Arg Glu Ser Ile Ala Arg Lys
 65 70 75 80
 Asn Leu Glu Leu Cys Phe Pro His Tyr Asn Ala Gln Gln Arg Glu Thr
 85 90 95
 Leu Ile Ala Glu Asn Phe Lys Ser Ile Gly Met Ala Leu Leu Glu Thr
 100 105 110
 Gly Met Ala Trp Phe Trp Pro Asp Glu Arg Val Arg Lys Trp Phe Asp
 115 120 125
 Val Glu Gly Leu Asp Asn Leu Lys Arg Ala Gln Met Gln Asn Arg Gly
 130 135 140
 Val Met Val Val Gly Leu His Phe Met Ser Leu Glu Leu Gly Gly Arg
 145 150 155 160
 Val Met Gly Leu Cys Gln Pro Met Met Ala Thr Tyr Arg Pro His Asn
 165 170 175
 Ser Ala Leu Met Glu Trp Val Gln Thr Arg Gly Arg Met Arg Ser Asn
 180 185 190
 Lys Ala Met Ile Ser Arg Asn Asn Leu Arg Gly Met Val Gly Ala Leu
 195 200 205
 Lys Lys Gly Glu Ala Val Trp Phe Ala Pro Asp Gln Asp Tyr Gly Pro
 210 215 220
 Lys Gly Ser Ser Phe Ala Pro Phe Phe Ala Val Lys Asp Val Ala Thr
 225 230 235 240
 Thr Asn Gly Thr Phe Val Ile Ser Arg Leu Ser Gly Ala Ala Met Leu
 245 250 255
 Thr Val Thr Met Val Arg Lys Ala Asp Lys Ser Gly Tyr Arg Leu His
 260 265 270
 Ile Ser Pro Glu Met Ala Asn Tyr Pro Glu Asp Glu Ser Glu Ala Ala
 275 280 285
 Thr Phe Ile Asn Lys Val Ile Glu Phe Glu Ile Met Arg Ala Pro Glu
 290 295 300
 Gln Tyr Leu Trp Met His Arg Arg Phe Lys Thr Arg Pro Leu Gly Glu
 305 310 315 320
 Ala Ser Leu Tyr Ile
 325

<210> 7128
 <211> 245
 <212> PRT
 <213> Enterobacter cloacae

<400> 7128

Gln Met Lys Val Ile Ile Val Glu Asp Glu Phe Leu Ala Gln Gln Glu


```

1           5           10           15
Leu Ser Trp Leu Ile Lys Thr His Ser Gln Met Glu Ile Val Gly Cys
20           25           30
Phe Glu Asp Gly Leu Asp Val Leu Lys Phe Leu Gln His Asn Arg Val
35           40           45
Asp Ala Ile Phe Leu Asp Ile Asn Ile Pro Ser Leu Asp Gly Val Leu
50           55           60
Leu Ala Gln Asn Ile Asn Gln Phe Ala His Lys Pro Phe Ile Val Phe
65           70           75           80
Val Thr Ala Trp Lys Glu His Ala Val Glu Ala Phe Glu Leu Glu Ala
85           90           95
Phe Asp Tyr Ile Leu Lys Pro Tyr Gln Glu Ser Arg Ile Ile Ser Met
100          105          110
Leu His Lys Leu Glu Ala Ala Trp Gln Gln Gln Ser Leu Pro Ala Ser
115          120          125
Ala Ser Pro Val Ala Arg Glu Asn Asp Thr Ile Asn Leu Val Lys Asp
130          135          140
Glu Arg Ile Ile Val Thr Pro Val Asp Asp Ile Tyr Tyr Ala Glu Ala
145          150          155          160
His Glu Lys Met Thr Phe Val Tyr Thr Arg Arg Glu Ser Tyr Val Met
165          170          175
Ala Met Asn Ile Thr Glu Phe Cys Asn Lys Leu Pro Ala Ala His Phe
180          185          190
Phe Arg Cys His Arg Ser Phe Cys Val Asn Leu Asn Lys Ile Arg Glu
195          200          205
Ile Glu Pro Trp Phe Asn Asn Thr Tyr Ile Leu Arg Leu Lys Asp Leu
210          215          220
Asp Phe Gln Val Pro Val Ser Arg Ser Arg Val Lys Glu Phe Arg Gln
225          230          235          240
Leu Met His Leu
245

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<210> 7129

<211> 420

<212> PRT

<213> Enterobacter cloacae

<400> 7129

```

Ala Val Leu Tyr Lys Glu Ile Ile Met Leu His Pro Arg Ala Arg Thr
1           5           10           15
Met Leu Leu Leu Ala Val Pro Ala Leu Ile Ile Gly Val Ala Ser Ser
20           25           30
Leu Val Leu Ile Val Val Met Lys Val Ala Ala Val Leu Gln Thr Ile
35           40           45
Leu Trp Thr Ala Leu Pro Val Lys Leu Gly Ile Ser Ile Asp Ser Pro
50           55           60
Gly Trp Ile Met Val Met Leu Thr Leu Thr Gly Ile Ala Val Gly Leu
65           70           75           80
Val Ile Arg Tyr Ser Pro Gly His Ala Gly Pro Asp Pro Ala Leu Glu
85           90           95
Pro Leu Ile Gly Ala Pro Val Ser Pro Ser Ala Leu Pro Gly Leu Ile
100          105          110
Ile Ala Leu Ile Ile Gly Leu Ala Gly Gly Val Ser Leu Gly Pro Glu
115          120          125
His Pro Ile Met Ala Val Asn Ile Ala Leu Ala Val Phe Leu Gly Ala
130          135          140
Arg Leu Phe Pro Arg Val Gly Ala Leu Asp Trp Thr Ile Leu Ala Ser
145          150          155          160
Ala Gly Thr Ile Gly Ala Leu Phe Gly Thr Pro Val Ala Ala Ala Leu
165          170          175
Ile Phe Ser Gln Thr Leu Ser Ser Asp His Glu Val Pro Leu Trp Asp

```

180 185 190
 Lys Leu Phe Ala Pro Leu Met Ala Ala Ala Gly Ala Leu Thr Thr
 195 200 205
 Ser Leu Phe Phe His Pro His Phe Ser Leu Ser Ile Pro His Tyr Gly
 210 215 220
 Gln Met Gln Leu Thr Asp Ile Phe Ser Gly Ala Val Val Val Ala Ile
 225 230 235 240
 Ala Ile Ala Leu Gly Met Val Ala Val Trp Cys Leu Pro Arg Leu His
 245 250 255
 Arg Leu Met His Arg Leu Lys His Pro Val Leu Ile Leu Gly Met Gly
 260 265 270
 Gly Phe Ile Leu Gly Val Leu Gly Ala Ile Gly Gly Thr Val Thr Leu
 275 280 285
 Phe Lys Gly Leu Asp Glu Met Gln Gln Leu Ala Phe Ser Gln Val Phe
 290 295 300
 Ser Val Ser Asp Tyr Leu Leu Phe Ala Leu Val Lys Leu Ala Ala Leu
 305 310 315 320
 Val Val Ala Ala Ala Cys Gly Phe Arg Gly Gly Arg Ile Phe Pro Ala
 325 330 335
 Val Phe Val Gly Val Ala Leu Gly Leu Met Leu His Glu His Val Asp
 340 345 350
 Ala Val Pro Ala Ala Ile Thr Val Ser Cys Ser Ile Leu Gly Leu Val
 355 360 365
 Leu Val Val Thr Arg Asp Ala Trp Leu Ser Leu Phe Met Ala Ala Val
 370 375 380
 Val Val Pro Asp Thr Thr Leu Leu Pro Leu Leu Cys Ile Val Met Leu
 385 390 395 400
 Pro Ala Trp Leu Leu Ala Gly Lys Pro Met Leu Met Ala Trp Arg
 405 410 415
 Asn Asp Arg
 420

<210> 7130

<211> 319

<212> PRT

<213> Enterobacter cloacae

<400> 7130

Met Ser Asn Tyr Pro Glu Gly Ala Val Met Lys Asp Ile Asn Glu Glu
 1 5 10 15
 Lys Ile Gly Glu Asn Asn Glu Glu Leu Glu Ile Glu Ser Glu Glu Lys
 20 25 30
 Asp Arg Gly Glu Glu Ile Glu Val Asp Glu Asp Arg Leu Pro Ser Arg
 35 40 45
 Ala Met Ala Ile His Glu His Ile Arg Gln Asp Gly Glu Lys Glu Met
 50 55 60
 Glu Arg Asp Ala Met Ala Leu Leu Trp Ser Ala Ile Ala Ala Gly Leu
 65 70 75 80
 Ser Met Gly Ala Ser Leu Leu Ala Lys Gly Ile Phe His Val Gln Leu
 85 90 95
 Glu Gly Val Pro Gly Gly Phe Leu Leu Glu Asn Leu Gly Tyr Thr Phe
 100 105 110
 Gly Phe Ile Ile Val Ile Met Ala Arg Gln Gln Leu Phe Thr Glu Asn
 115 120 125
 Thr Val Thr Ala Val Leu Pro Val Met Gln Asn Pro Thr Leu Gly Asn
 130 135 140
 Phe Gly Leu Leu Met Arg Leu Trp Ser Val Val Leu Leu Gly Asn Leu
 145 150 155 160
 Ile Gly Thr Gly Ile Ala Ala Trp Ala Phe Glu Tyr Met Pro Ile Phe
 165 170 175
 Asp Glu Pro Thr Arg Asp Ala Phe Val Lys Ile Gly Met Asp Val Met

```
<210> 7131
<211> 127
<212> PRT
<213> Enterobacter cloacae
```

```
<210> 7132
<211> 575
<212> PRT
<213> Enterobacter cloacae
```

<400> 7132															
Ile	Phe	Pro	Val	Phe	Pro	Gly	Leu	Thr	Val	His	Glu	Ile	Phe	Asn	Met
1				5					10					15	
Leu	Leu	Ala	Val	Phe	Asp	Arg	Ala	Ala	Leu	Met	Leu	Ile	Cys	Leu	Phe
			20				25						30		
Phe	Leu	Ile	Arg	Ile	Arg	Leu	Phe	Arg	Glu	Leu	Leu	His	Lys	Ser	Ala
		35				40						45			
His	Ser	Pro	Lys	Glu	Leu	Leu	Ala	Val	Thr	Phe	Ile	Phe	Ser	Met	Phe
	50					55					60				
Ala	Leu	Phe	Ser	Thr	Trp	Ser	Gly	Val	Pro	Val	Glu	Gly	Ser	Leu	Val
65					70					75				80	
Asn	Val	Arg	Ile	Ile	Ala	Val	Met	Ser	Gly	Gly	Ile	Leu	Phe	Gly	Pro
				85					90					95	
Trp	Val	Gly	Ile	Ile	Thr	Gly	Ile	Ile	Ala	Gly	Thr	His	Arg	Tyr	Leu
			100					105					110		

Ile Asp Ile Gly Gly Val Thr Ala Val Pro Cys Phe Ile Thr Ser Ile
 115 120 125
 Ile Ala Gly Leu Leu Ser Gly Trp Ile Asn Arg Lys Ile Pro Lys Lys
 130 135 140
 Gln His Trp Arg Ala Gly Ile Ile Ala Gly Met Val Cys Glu Thr Leu
 145 150 155 160
 Thr Met Ile Leu Val Ile Val Trp Ala Pro Thr Val Ala Leu Gly Leu
 165 170 175
 Asp Ile Val Ser Lys Ile Gly Ile Pro Met Ile Leu Gly Ser Val Cys
 180 185 190
 Ile Gly Phe Ile Val Leu Leu Val Gln Ser Val Glu Gly Glu Lys Glu
 195 200 205
 Ala Ser Ala Ala Arg Gln Ala Lys Leu Ala Leu Asp Ile Ala Asn Lys
 210 215 220
 Thr Leu Pro Leu Phe Arg His Val Asn Ala Glu Ser Leu Arg Gln Val
 225 230 235 240
 Cys Asp Ile Ile Arg Arg Asp Ile His Ala Asp Ala Val Ala Ile Thr
 245 250 255
 Asn Ile Asp His Val Leu Ala Tyr Val Gly Val Gly Glu His Asn Tyr
 260 265 270
 Arg Asp Ser Asp Asp Thr Ile Ser Pro Thr Thr Arg Gln Ala Ile Asn
 275 280 285
 Tyr Gly Lys Ile Ile Ile Lys Asn Asn Asp Glu Ala His Arg Thr Pro
 290 295 300
 Glu Ile His Ser Met Leu Val Ile Pro Leu Trp Glu Lys Gly Val Val
 305 310 315 320
 Thr Gly Thr Leu Lys Ile Tyr Tyr Cys His Ala His Gln Ile Thr Ser
 325 330 335
 Ser Leu Gln Glu Met Ala Ile Gly Leu Ser Gln Ile Ile Ser Thr Gln
 340 345 350
 Leu Glu Val Ser Arg Ala Glu Gln Leu Arg Glu Met Ala Asn Lys Ala
 355 360 365
 Glu Leu Arg Ala Leu Gln Ser Lys Ile Asn Pro His Phe Leu Phe Asn
 370 375 380
 Ala Leu Asn Ala Ile Ser Ser Ser Ile Arg Leu Asn Pro Asp Thr Ala
 385 390 395 400
 Arg Gln Leu Ile Phe Asn Leu Ser Arg Tyr Leu Arg Tyr Asn Ile Glu
 405 410 415
 Leu Lys Asp Asp Glu Gln Ile Asp Ile Lys Lys Glu Leu Tyr Gln Ile
 420 425 430
 Lys Asp Tyr Ile Ala Ile Glu Gln Ala Arg Phe Gly Asp Lys Leu Thr
 435 440 445
 Val Ile Tyr Asp Ile Asp Glu Glu Val Asn Cys Val Ile Pro Ser Leu
 450 455 460
 Leu Ile Gln Pro Leu Val Glu Asn Ala Ile Val His Gly Ile Gln Pro
 465 470 475 480
 Cys Lys Gly Lys Gly Val Val Thr Ile Ser Val Thr Glu Ser Gly Asn
 485 490 495
 Arg Val Arg Ile Ala Val Arg Asp Thr Gly His Gly Ile Asp Pro Lys
 500 505 510
 Val Ile Glu Arg Val Lys Ser Asn Glu Met Pro Gly Asn Lys Ile Gly
 515 520 525
 Leu Leu Asn Val His His Arg Val Lys Leu Leu Tyr Gly Asp Gly Leu
 530 535 540
 His Ile His Arg Leu Glu Pro Gly Thr Glu Ile Ala Phe Tyr Val Pro
 545 550 555 560
 Asn Glu Arg Thr Pro Val Asn Ala Pro Ile Ser Leu Leu Pro
 565 570 575

<210> 7133

<211> 437

<212> PRT

<213> Enterobacter cloacae

<400> 7133

```

Arg Trp Ala Asn Gly Glu Ser Gly His Phe Tyr His Met Ser Glu Pro
1      5      10      15
Ile Thr Val Ala Gln Ala Val Leu Thr Glu Gln Asn Ala Cys Tyr Glu
20      25      30
Ile Asp Arg Val Leu Thr Thr Met Leu Arg Glu Arg Arg Pro Gly Tyr
35      40      45
Leu Met Leu Pro Ala Asp Val Ala Lys Lys Ala Ala Thr Pro Pro Val
50      55      60
Ser Ala Leu Thr Val Asn Pro Ala Pro Ala Asp Ser Ala Cys Leu Gln
65      70      75      80
Ala Phe Arg Glu Ala Ala Glu Lys Arg Leu Ser Thr Ser Lys Arg Thr
85      90      95
Ala Leu Leu Ala Asp Phe Leu Val Leu Arg His Gly Leu Arg Ala Ala
100     105     110
Leu Gln Thr Trp Val Lys Glu Val Pro Met Ala His Ala Thr Met Leu
115     120     125
Met Gly Lys Gly Ile Phe Asp Glu Arg Gln Ser Gly Phe Tyr Gly Thr
130     135     140
Tyr Ser Gly Ser Ala Ser Ala Ala Pro Val Lys Glu Ala Ile Glu Gly
145     150     155     160
Ala Asp Thr Val Leu Cys Ile Gly Thr Arg Phe Thr Asp Thr Leu Thr
165     170     175
Ala Gly Phe Thr His Gln Leu Thr Pro Asp Gln Thr Ile Glu Val Gln
180     185     190
Pro His Ala Ser Arg Val Gly Asp Val Trp Phe Thr Gly Ile Pro Met
195     200     205
Arg Glu Ala Ile Glu Thr Leu Thr Ala Leu Cys Lys Thr Tyr Val Arg
210     215     220
Asp Thr Arg Ala Pro Ser Asp His Ser Gly Phe Ser Phe Pro Thr Ile
225     230     235     240
Glu Gly Ala Leu Thr Gln Glu Ser Phe Trp Arg Thr Leu Gln Thr Phe
245     250     255
Ile Arg Pro Gly Asp Ile Ile Leu Ala Asp Gln Gly Thr Ser Ala Phe
260     265     270
Gly Ala Ile Asp Leu Arg Leu Pro Ala Asp Val Asn Phe Ile Val Gln
275     280     285
Pro Leu Trp Gly Ser Ile Gly Tyr Thr Leu Ala Ala Ala Phe Gly Ala
290     295     300
Gln Thr Ala Cys Pro Asn Arg Arg Val Ile Val Leu Thr Gly Asp Gly
305     310     315     320
Ala Ala Gln Leu Thr Ile Gln Glu Leu Gly Ser Met Leu Arg Asp Lys
325     330     335
Gln Arg Pro Ile Ile Leu Val Leu Asn Asn Glu Gly Tyr Thr Val Glu
340     345     350
Arg Ala Ile His Gly Pro Glu Gln Arg Tyr Asn Asp Ile Ala Leu Trp
355     360     365
Asn Trp Thr Gln Ile Pro Gln Ala Leu Ser Leu Ala Pro Gln Ala Glu
370     375     380
Cys Trp Arg Val Ser Glu Ala Glu Ala Leu Ala Glu Val Leu Asp Lys
385     390     395     400
Val Ala His His Glu Arg Leu Ser Leu Ile Glu Val Met Leu Pro Lys
405     410     415
Ala Asp Ile Pro Pro Leu Leu Ser Ala Leu Thr Lys Ala Leu Glu Ala
420     425     430
Arg Asn Asn Ala
435

```

<210> 7134
 <211> 418
 <212> PRT
 <213> Enterobacter cloacae

<400> 7134

Arg	Asp	Ser	Glu	Glu	Ser	Met	Ala	Glu	Phe	Ser	Pro	Glu	Arg	Arg	Phe	
1			5						10					15		
Thr	Arg	Ile	Asp	Arg	Leu	Pro	Pro	Tyr	Val	Phe	Asn	Ile	Thr	Ala	Glu	
			20					25					30			
Leu	Lys	Met	Ala	Ala	Arg	Arg	Arg	Gly	Glu	Asp	Ile	Ile	Asp	Phe	Ser	
		35					40					45				
Met	Gly	Asn	Pro	Asp	Gly	Pro	Thr	Pro	Pro	His	Ile	Val	Glu	Lys	Leu	
	50					55					60					
Cys	Thr	Val	Ala	Gln	Arg	Pro	Asp	Thr	His	Gly	Tyr	Ser	Thr	Ser	Arg	
65					70					75					80	
Gly	Ile	Pro	Arg	Leu	Arg	Arg	Ala	Ile	Ser	Arg	Trp	Tyr	Gln	Asp	Arg	
				85					90					95		
Tyr	Gln	Val	Asp	Ile	Asp	Pro	Glu	Asn	Glu	Ala	Ile	Val	Thr	Ile	Gly	
			100					105						110		
Ser	Lys	Glu	Gly	Leu	Ala	His	Leu	Met	Leu	Ala	Thr	Leu	Asp	His	Gly	
		115					120					125				
Asp	Thr	Val	Leu	Val	Pro	Asn	Pro	Ser	Tyr	Pro	Ile	His	Ile	Tyr	Gly	
	130					135						140				
Ala	Val	Ile	Ala	Gly	Ala	Gln	Val	Arg	Ser	Val	Pro	Leu	Val	Glu	Gly	
145					150					155					160	
Val	Asp	Phe	Phe	Asn	Glu	Leu	Glu	Arg	Ala	Ile	Arg	Glu	Ser	Tyr	Pro	
				165					170					175		
Lys	Pro	Lys	Met	Met	Ile	Leu	Gly	Phe	Pro	Ser	Asn	Pro	Thr	Ala	Gln	
			180					185					190			
Cys	Val	Glu	Leu	Glu	Phe	Phe	Glu	Lys	Val	Val	Ala	Leu	Ala	Lys	Arg	
	195						200				205					
Tyr	Asp	Val	Leu	Val	Val	His	Asp	Leu	Ala	Tyr	Ala	Asp	Ile	Val	Tyr	
	210					215					220					
Asp	Gly	Trp	Lys	Ala	Pro	Ser	Ile	Met	Gln	Val	Pro	Gly	Ala	Arg	Asp	
225				230					235					240		
Val	Ala	Val	Glu	Phe	Thr	Leu	Ser	Lys	Ser	Tyr	Asn	Met	Ala	Gly		
			245					250					255			
Trp	Arg	Ile	Gly	Phe	Met	Val	Gly	Asn	Lys	Thr	Leu	Val	Ser	Ala	Leu	
		260					265						270			
Ala	Arg	Ile	Lys	Ser	Tyr	His	Asp	Tyr	Gly	Thr	Phe	Thr	Pro	Leu	Gln	
	275					280					285					
Val	Ala	Ala	Ile	Ala	Ala	Leu	Glu	Gly	Asp	Gln	Gln	Cys	Val	Leu	Asp	
	290				295					300						
Ile	Ala	Ala	Gln	Tyr	Lys	Arg	Arg	Arg	Asp	Val	Leu	Val	Lys	Gly	Leu	
305					310					315					320	
His	Glu	Ala	Gly	Trp	Met	Val	Glu	Met	Pro	Lys	Ala	Ser	Met	Tyr	Val	
			325					330					335			
Trp	Ala	Lys	Ile	Pro	Glu	Pro	Tyr	Ala	Ala	Met	Gly	Ser	Leu	Glu	Phe	
		340					345						350			
Ala	Lys	Lys	Leu	Leu	Gln	Asp	Ala	Lys	Val	Cys	Val	Ser	Pro	Gly	Ile	
	355					360					365					
Gly	Phe	Gly	Asp	Tyr	Gly	Asp	Thr	His	Val	Arg	Phe	Ala	Leu	Ile	Glu	
	370				375					380						
Asn	Ser	Asp	Arg	Ile	Arg	Gln	Ala	Val	Arg	Gly	Ile	Lys	Ser	Met	Phe	
385				390						395					400	
Arg	Ala	Asp	Gly	Leu	Leu	Ala	Ala	Lys	Ser	Val	Ala	Glu	Gln	Pro	Glu	
			405					410						415		

Ser

<210> 7135
 <211> 327
 <212> PRT
 <213> Enterobacter cloacae

<400> 7135

```

Arg Ser Ser Arg Arg Met Thr Lys Tyr Ala Leu Val Gly Asp Val Gly
1      5      10      15
Gly Thr Asn Ala Arg Leu Ala Leu Cys Asp Val Asn Ser Gly Glu Ile
      20      25      30
Ser Gln Ala Lys Thr Tyr Ser Gly Leu Asp Tyr Pro Ser Leu Glu Ala
      35      40      45
Val Val Arg Val Tyr Leu Glu Glu His Lys Val Ser Val Glu Asp Gly
      50      55      60
Cys Ile Ala Ile Ala Cys Pro Ile Thr Gly Asp Trp Val Ala Met Thr
65      70      75      80
Asn His Thr Trp Ala Phe Ser Ile Ala Glu Met Arg Lys Asn Leu Gly
      85      90      95
Phe Ser His Leu Glu Ile Ile Asn Asp Phe Thr Ala Val Ser Met Ala
      100     105     110
Ile Pro Met Leu Lys Pro Glu His Leu Ile Gln Phe Gly Gly Thr Ala
      115     120     125
Pro Val Glu Gly Lys Pro Ile Ala Val Tyr Gly Ala Gly Thr Gly Leu
      130     135     140
Gly Val Ala His Leu Val His Val Asp Lys Arg Trp Val Ser Leu Pro
145     150     155     160
Gly Glu Gly Gly His Val Asp Phe Ala Pro Asn Ser Glu Glu Glu Gly
      165     170     175
Ile Ile Leu Glu Glu Leu Arg Ala Glu Ile Gly His Val Ser Ala Glu
      180     185     190
Arg Val Leu Ser Gly Pro Gly Leu Val Asn Leu Tyr Arg Ala Ile Val
      195     200     205
Lys Ser Asp Gly Arg Leu Pro Glu Asn Leu Gln Pro Lys Asp Val Thr
      210     215     220
Glu Arg Ala Leu Ala Asp Ser Cys Ile Asp Cys Arg Arg Ala Leu Ser
225     230     235     240
Leu Phe Cys Val Ile Met Gly Arg Phe Gly Gly Asn Leu Ala Leu Asn
      245     250     255
Leu Gly Thr Phe Gly Gly Val Tyr Ile Ala Gly Gly Ile Val Pro Arg
      260     265     270
Phe Leu Asp Phe Phe Thr Ala Ser Gly Phe Arg Gly Gly Phe Glu Asp
      275     280     285
Lys Gly Arg Phe Arg Ser Tyr Val Gln Asp Ile Pro Val Tyr Leu Ile
      290     295     300
Val His Asp Asn Pro Gly Leu Leu Gly Ser Gly Ala His Leu Arg Gln
305     310     315     320
Val Leu Gly Gln Ile Leu
      325

```

<210> 7136
 <211> 472
 <212> PRT
 <213> Enterobacter cloacae

<400> 7136

```

Ile Cys Val Pro Ala Cys Leu Leu Lys Val Gln Thr Met Glu Thr Tyr
1      5      10      15
Leu Gln Thr Val Lys Glu Glu Trp Val Lys Leu Ile Asn Glu Thr Asp
      20      25      30
Pro Asp Val His Arg Leu Ala Thr Glu Leu Ala Arg Asp Asn Ala Thr
      35      40      45

```

```

Pro Leu Val Ala Glu Phe Tyr Arg Val Val Leu Ala Asp Pro Ser Ala
 50          55          60
Ala Glu Phe Leu Thr Thr Glu Gln Val Glu Arg Gln Leu Gln Glu Ala
 65          70          75          80
Leu Arg Arg Trp Leu Ile Asp Val Leu Ser Cys Arg Val Glu Gln Val
      85          90          95
Glu Glu Gln Met Arg Ala Gln Gln Arg Ala Ala Asp Val His Ala Arg
      100          105          110
Ile Gly Ile Ser Val Asp Leu Val Glu Met Gly Phe Arg Val Leu Lys
      115          120          125
Lys Leu Leu Leu Pro Val Ile Thr Thr Ser Ala His Ser Pro Glu Val
      130          135          140
Lys Leu His Ile Tyr His Tyr Ala Ile Asn Ser Ile Asp Leu Ala Met
      145          150          155          160
Glu Val Met Ser Arg Ala Tyr Val Phe Ser Glu Asn Asn Ala Ala Lys
      165          170          175
Glu Asp Glu Asn Tyr Arg Ile Phe Ser Leu Met Glu Asn Ala Glu Glu
      180          185          190
Glu Lys Glu Arg Gln Thr Ala Ala Leu Leu Ser Trp Glu Met Val Leu
      195          200          205
Leu Tyr Lys Ile Thr Leu Asn Ser Ser Ile Gly Asn Ser Leu Pro Leu
      210          215          220
Gly Gln Ser Glu Phe Gly Leu Trp Phe Ser His Lys Gly Arg His Tyr
      225          230          235          240
Phe Ser Gly Ile Ala Glu Ala Gly His Ile Ser Arg Leu Ile Gln Glu
      245          250          255
Phe Asp Asp Leu Phe Asn Glu Val Arg Leu Ser Gly Gln Gly Leu Ser
      260          265          270
Asp Lys Ala Gln Arg Asp Lys Phe Leu Gln Arg Met Arg Asn Thr Leu
      275          280          285
Ser Gln Ile Ile Thr Leu Leu Arg Glu Leu Phe Asp Glu Val Ser Arg
      290          295          300
His Glu Val Gly Val Asp Val Leu Thr Arg Leu Leu Asn Arg Arg Phe
      305          310          315          320
Leu Pro Thr Ile Phe Lys Arg Glu Ile Leu His Ala Thr Arg Ala Gly
      325          330          335
Thr Lys Leu Ser Thr Leu Leu Ile Asp Val Asp Lys Phe Lys Gln Ile
      340          345          350
Asn Asp Thr Trp Gly His Asn Thr Gly Asp Glu Ile Leu Arg Lys Val
      355          360          365
Ser Gly Ala Phe Tyr Asp Asn Val Arg Thr Cys Asp Tyr Val Phe Arg
      370          375          380
Tyr Gly Gly Asp Glu Phe Leu Ile Val Leu Thr Glu Ile Ser Glu Val
      385          390          395          400
Asp Ala Leu Arg Ile Ala Glu Arg Ile Arg Arg Arg Val Glu Lys Ile
      405          410          415
Lys Val Asn Ser Pro Thr Gly Asp Ile Ile Pro Leu Ser Leu Ser Ile
      420          425          430
Gly Val Ala Met Phe Asn Gly His Pro Asp Tyr Glu Arg Leu Ile Gln
      435          440          445
Ala Ala Asp Glu Ala Leu Tyr Gly Val Lys Arg Arg Gly Arg Asn Cys
      450          455          460
Val Glu Leu Trp Lys Gly Ala
      465          470

```

<210> 7137

<211> 296

<212> PRT

<213> Enterobacter cloacae

<400> 7137


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Arg Glu Arg Val Val Ile Val Leu Val Asp Ile Gly Lys Arg Ala Val
1      5      10      15
Thr Ile Thr Cys Thr Phe Gln Ala Glu His His Arg Leu Arg His Arg
20      25      30
Trp His Ser Thr Ile Ala Ile Leu Asn Arg Glu Lys Phe Met Lys Leu
35      40      45
Arg Leu Ser Ala Leu Ala Leu Gly Val Thr Met Leu Val Gly Cys Ala
50      55      60
Ser Ser Gly Glu Gln Thr Gly Arg Ser Asp Pro Leu Glu Gly Phe Asn
65      70      75      80
Arg Ser Met Tyr Ser Phe Asn Tyr Asn Val Leu Asp Pro Tyr Leu Val
85      90      95
Arg Pro Val Ala Val Ala Trp Arg Asp Tyr Val Pro Gln Pro Ala Arg
100     105     110
Asn Gly Leu Ser Asn Phe Thr Ser Asn Leu Glu Glu Pro Ala Val Met
115     120     125
Val Asn Tyr Phe Leu Gln Gly Asp Pro Tyr Gln Gly Met Val His Phe
130     135     140
Thr Arg Phe Phe Leu Asn Ser Leu Leu Gly Met Gly Gly Leu Ile Asp
145     150     155     160
Val Ala Gly Met Ala Asn Pro Lys Leu Gln Arg Glu Gln Pro His Arg
165     170     175
Phe Gly Ser Thr Leu Gly His Tyr Gly Val Gly Tyr Gly Pro Tyr Val
180     185     190
His Leu Pro Phe Tyr Gly Ser Phe Thr Val Arg Asp Asp Gly Gly Asp
195     200     205
Met Val Asp Thr Leu Tyr Pro Val Leu Ser Trp Leu Thr Trp Pro Leu
210     215     220
Ser Ile Gly Lys Trp Thr Val Glu Gly Ile Glu Thr Arg Ala Gln Leu
225     230     235     240
Leu Asp Ser Asp Gly Leu Leu Arg Gln Ser Ser Asp Pro Tyr Ile Met
245     250     255
Val Arg Glu Ala Tyr Phe Gln Asn His Asp Phe Ile Ala Asn Gly Gly
260     265     270
Lys Leu Lys Pro Glu Asp Asn Pro Asn Ala Lys Ala Ile Glu Asn Glu
275     280     285
Leu Lys Asp Ile Asp Ser Glu
290     295

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<210> 7138

<211> 175

<212> PRT

<213> Enterobacter cloacae

<400> 7138

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Tyr Gly His Glu Trp Arg Trp Met Pro Gly Asn Arg Pro His Tyr Gly
1      5      10      15
Arg Trp Pro Gln His Asp Phe Pro Pro Phe Lys Lys Leu Arg Pro Gln
20      25      30
Ser Val Thr Ser Arg Ile Gln Pro Gly Ser Asp Val Ile Val Cys Ala
35      40      45
Glu Met Asp Glu Gln Trp Gly Tyr Val Gly Ala Lys Ser Arg Gln Arg
50      55      60
Trp Leu Phe Tyr Ala Tyr Asp Arg Leu Arg Lys Thr Val Val Ala His
65      70      75      80
Val Phe Gly Glu Arg Thr Met Ala Thr Leu Gly Arg Leu Met Ser Leu
85      90      95
Leu Ser Pro Phe Asp Val Val Ile Trp Met Thr Asp Gly Trp Pro Leu
100     105     110
Tyr Glu Ser Arg Leu Lys Gly Lys Leu His Val Ile Ser Lys Arg Tyr
115     120     125

```

Thr Gln Arg Ile Glu Arg His Asn Leu Asn Leu Arg Gln His Leu Ala
 130 135 140
 Arg Leu Gly Arg Lys Ser Leu Ser Phe Ser Lys Ser Val Glu Leu His
 145 150 155 160
 Asp Lys Val Ile Gly His Tyr Leu Asn Ile Lys His Tyr Gln
 165 170 175

<210> 7139

<211> 78

<212> PRT

<213> Enterobacter cloacae

<400> 7139

Cys Cys Gln Leu Thr Asp Leu Val Tyr Asp Gly Val Phe Glu Val Leu
 1 5 10 15
 Gln Trp Leu Leu Phe Leu Ser Ala Val Pro Pro Val Gln Leu Leu Thr
 20 25 30
 Gly Trp Cys Val Thr Val Lys Val Leu Pro Asp Ile Ser Ala Ile Ser
 35 40 45
 Ala Leu Thr Ala Val Lys His Gly Ser Tyr Ser Ser His Thr Gln Pro
 50 55 60
 Leu Asn Pro Val Arg Thr Arg Lys Ser Leu Ile Trp Pro
 65 70 75

<210> 7140

<211> 314

<212> PRT

<213> Enterobacter cloacae

<400> 7140

Pro Gly Arg Asn Pro Ser Cys Ile Pro Ser Trp Ser Gly Leu Glu Gln
 1 5 10 15
 Arg Ala Arg Leu Ala Ala Glu Phe Met Tyr Gly Leu Leu Ser Arg Gln
 20 25 30
 Gly Val Ile Asp Thr Ala Phe Ala Ser Leu Thr Thr Lys Pro His Leu
 35 40 45
 Thr Gln Asp Gln Gln Ala Leu Ile Gln Asp Ile Leu Thr Asp Ile Arg
 50 55 60
 Ile Tyr Gly Gln Pro His Phe Asp Val Thr Ala Phe Tyr Asn Gly Met
 65 70 75 80
 Leu Ser Tyr Leu Asn Arg Gly Arg Phe Arg Ala Thr Gly Glu Leu Thr
 85 90 95
 Thr Gln Asp Arg Leu Arg Glu Val Phe Arg Ile Ser Ser Ile Asp Glu
 100 105 110
 Phe Arg Ala Leu Leu Ala Asn Glu Pro Met Leu Val Leu Pro Glu Cys
 115 120 125
 Pro Asp Asn Lys Leu Thr Leu Glu Ala Phe Phe Trp Arg Asp Glu Tyr
 130 135 140
 Phe Asn Ser Gln Gly Pro Asp Ala Leu Leu Ser Tyr Leu Phe Ser Pro
 145 150 155 160
 Glu Gln Ile Gln Arg Tyr Leu Asn Val Arg Ala Glu Phe Glu Asp Lys
 165 170 175
 Gly Lys Thr Val Glu Lys Leu Ser Ala Gly Gln Arg Gly Thr Phe Tyr
 180 185 190
 Val Cys Leu Lys Leu Ala Ala Asp Ala Phe Gly Ser Pro Phe Val Phe
 195 200 205
 Asp Gln Pro Glu Asp Asp Leu Asp Asn Glu Phe Ile Met His Ser Leu
 210 215 220
 Val Pro Leu Phe Arg Lys Ile Lys Gln Tyr Arg Gln Val Ile Ile Val
 225 230 235 240
 Thr His Asn Ala Asn Leu Val Val Asn Cys Asp Ala Glu Gln Val Ile

3171

			245				250				255
Ile	Ala	Ala	Asn	Asp	Glu	Val	Ile	Ser	Tyr	Arg	Leu
			260				265				270
Glu	Tyr	Gly	Asp	His	Gly	Ala	Pro	Asn	Ser	Met	Cys
			275				280				285
Asp	Val	Leu	Glu	Gly	Gly	Arg	Gln	Ala	Phe	Glu	Ala
			290				295				300
Tyr	Gly	Met	Val	Trp	Leu	Asn	Ala	Ile			
305					310						

<210> 7141

<211> 95

<212> PRT

<213> Enterobacter cloacae

<400> 7141

Gly	Ala	Pro	Val	Ala	Ser	Val	Ser	Ile	Ser	Cys	Pro	Ser	Cys	Ser	Ala
1				5				10						15	
Thr	Asp	Gly	Val	Val	Arg	Asn	Gly	Lys	Ser	Thr	Ala	Gly	His	Gln	Arg
			20					25					30		
Tyr	Leu	Cys	Ser	His	Cys	Arg	Lys	Thr	Trp	Gln	Leu	Gln	Phe	Thr	Tyr
		35					40					45			
Thr	Ala	Ser	Gln	Pro	Gly	Thr	His	Gln	Lys	Ile	Ile	Asp	Met	Ala	Met
	50					55					60				
Asn	Gly	Val	Gly	Cys	Arg	Ala	Thr	Ala	Arg	Ile	Met	Gly	Val	Gly	Leu
65					70				75						80
Asn	Thr	Ile	Phe	Arg	His	Leu	Lys	Asn	Ser	Gly	Arg	Ser	Arg		
				85					90					95	

<210> 7142

<211> 175

<212> PRT

<213> Enterobacter cloacae

<400> 7142

Tyr	Gly	His	Glu	Trp	Arg	Trp	Met	Pro	Gly	Asn	Arg	Pro	His	Tyr	Gly
1				5					10					15	
Arg	Trp	Pro	Gln	His	Asp	Phe	Pro	Pro	Phe	Lys	Lys	Leu	Arg	Pro	Gln
			20					25				30			
Ser	Val	Thr	Ser	Arg	Ile	Gln	Pro	Gly	Ser	Asp	Val	Ile	Val	Cys	Ala
		35					40				45				
Glu	Met	Asp	Glu	Gln	Trp	Gly	Tyr	Val	Gly	Ala	Lys	Ser	Arg	Gln	Arg
	50					55				60					
Trp	Leu	Phe	Tyr	Ala	Tyr	Asp	Arg	Leu	Arg	Lys	Thr	Val	Val	Ala	His
65					70				75						80
Val	Phe	Gly	Glu	Arg	Thr	Met	Ala	Thr	Leu	Gly	Arg	Leu	Met	Arg	Leu
				85					90					95	
Leu	Ser	Pro	Phe	Asp	Val	Val	Ile	Trp	Met	Thr	Asp	Gly	Trp	Pro	Leu
			100					105					110		
Tyr	Glu	Ser	Arg	Leu	Lys	Gly	Lys	Leu	His	Val	Ile	Ser	Lys	Arg	Tyr
		115					120					125			
Thr	Gln	Arg	Ile	Glu	Arg	His	Asn	Leu	Asn	Leu	Arg	Gln	His	Leu	Ala
	130					135					140				
Arg	Leu	Gly	Arg	Thr	Ser	Leu	Ser	Phe	Ser	Lys	Ser	Val	Glu	Leu	His
145					150					155					160
Asp	Lys	Val	Ile	Gly	His	Tyr	Leu	Asn	Ile	Lys	His	Tyr	Gln		
				165					170					175	

<210> 7143

<211> 78

<212> PRT

<213> Enterobacter cloacae

<400> 7143

Cys	Cys	Gln	Leu	Thr	Asp	Leu	Val	Tyr	Asp	Gly	Val	Phe	Glu	Val	Leu
1				5					10					15	
Gln	Trp	Leu	Leu	Phe	Leu	Ser	Ala	Val	Pro	Pro	Val	Gln	Leu	Leu	Thr
		20						25					30		
Gly	Trp	Cys	Val	Thr	Ala	Lys	Ala	Leu	Pro	Asp	Ile	Ser	Ala	Ile	Ser
		35					40					45			
Ala	Leu	Thr	Ala	Val	Lys	His	Gly	Asn	Cys	Ser	Ser	Leu	Thr	Pro	Leu
	50					55					60				
Leu	Asn	Pro	Val	Arg	Thr	Arg	Lys	Ser	Leu	Ile	Trp	Pro			
65					70					75					

<210> 7144

<211> 95

<212> PRT

<213> Enterobacter cloacae

<400> 7144

Gly	Ala	Pro	Val	Ala	Ser	Val	Ser	Ile	Ser	Cys	Pro	Ser	Cys	Ser	Ala
1				5					10					15	
Thr	Asp	Gly	Val	Val	Arg	Asn	Gly	Lys	Ser	Thr	Ala	Gly	His	Gln	Arg
		20					25						30		
Tyr	Leu	Cys	Ser	His	Cys	Arg	Lys	Thr	Trp	Gln	Leu	Gln	Phe	Thr	Tyr
		35					40					45			
Thr	Ala	Ser	Gln	Pro	Gly	Thr	His	Gln	Lys	Ile	Ile	Asp	Met	Ala	Met
	50					55					60				
Asn	Gly	Val	Gly	Cys	Arg	Ala	Thr	Ala	Arg	Ile	Met	Gly	Val	Gly	Leu
65					70				75						80
Asn	Thr	Ile	Phe	Arg	His	Leu	Lys	Asn	Ser	Gly	Arg	Ser	Arg		
				85					90					95	

<210> 7145

<211> 243

<212> PRT

<213> Enterobacter cloacae

<400> 7145

Cys	Thr	His	His	Leu	Asn	Thr	Phe	Asp	Gly	Gly	Val	Ser	Arg	Leu	His
1				5					10					15	
Gly	Phe	Lys	Ser	Gln	Arg	Gly	Ala	Asp	Tyr	Pro	Phe	Gln	Phe	Ala	Met
		20						25					30		
Ile	Ala	Phe	Asn	His	Val	Val	Pro	Val	Leu	Asn	Leu	Ser	Val	Phe	Asn
		35					40					45			
Val	Arg	Arg	Ala	Pro	Ala	Phe	Ala	Phe	Glu	Gln	Ser	Lys	Arg	Ala	Thr
	50					55					60				
Ile	Gly	Gly	Arg	Phe	Ile	Arg	Val	Asp	Glu	Ser	Arg	Asp	Leu	Pro	Leu
65					70				75						80
Leu	His	Val	Val	Glu	Asp	Phe	Thr	Gln	Lys	Pro	Val	Cys	Ser	Phe	Ala
				85					90					95	
Val	Thr	Thr	Gly	Gly	Glu	Ile	Lys	Ile	Asp	Ser	Ala	Ala	Pro	Ala	Val
			100					105					110		
Asp	Gly	Pro	Val	Gln	Ile	Arg	Pro	Ala	Ala	Ile	Asp	Leu	His	Val	Gly
		115					120					125			
Phe	Ile	His	Val	Pro	Arg	Ala	Lys	Ile	Gly	Arg	Val	Thr	Pro	Val	Pro
	130					135					140				
Ala	Gln	Pro	Phe	Phe	His	Phe	Arg	Arg	Ile	Thr	Leu	Asn	Pro	Ala	Val
145					150					155					160
Asn	Arg	Gly	Val	Ile	Asp	Ile	His	Ser	Ala	Phe	Ser	Gln	His	Leu	Leu
				165					170					175	

Gln Leu Thr Val Thr Asp Ala Val Phe Ala Val Pro Ala Tyr Gly Pro
 180 185 190
 Gln Asn Asp Val Thr Leu Lys Met Pro Ala Phe Glu Trp Val His Val
 195 200 205
 Gln Leu His Gln Gln Lys Gly Met Ile Ser Leu Ser Pro Pro Thr Ile
 210 215 220
 Cys Asn Ser Ala Asn Arg Asn Asp Lys Asn Glu Pro Pro Gly Cys Asp
 225 230 235 240
 Gly Leu

<210> 7146
 <211> 99
 <212> PRT
 <213> Enterobacter cloacae

<400> 7146
 Cys Pro Met Thr Leu Ser Cys Ser Ser Thr Asp Phe Glu Asn Asp Ser
 1 5 10 15
 Asp Val Arg Pro Ser Arg Ala Arg Cys Cys Leu Arg Phe Arg Leu Cys
 20 25 30
 Arg Ser Ile Arg Cys Val Tyr Arg Leu Leu Ile Thr Cys Ser Phe Pro
 35 40 45
 Phe Arg Arg Asp Ser Tyr Ser Gly Gln Pro Ser Val Ile His Ile Thr
 50 55 60
 Thr Ser Lys Gly Asp Ser Ser Leu Ile Arg Arg Pro Ser Val Ala Ile
 65 70 75 80
 Val Arg Ser Pro Asn Thr Cys Ala Thr Thr Val Phe Arg Ser Leu Ser
 85 90 95
 Tyr Ala

<210> 7147
 <211> 227
 <212> PRT
 <213> Enterobacter cloacae

<400> 7147
 Ala Ile Asn Pro Met Arg Ile Leu Leu Val Glu Asp Asp Pro Met Val
 1 5 10 15
 Gly Glu Val Val Thr Ser Ser Leu Lys Asp Asn Ala Trp Ala Val Asp
 20 25 30
 Trp Val Lys Ser Gly Asn Asp Ala Cys Val Gly Phe Ser Thr Trp Gln
 35 40 45
 Tyr Asp Val Ile Leu Leu Asp Leu Gly Leu Pro Gly Lys Asp Gly Leu
 50 55 60
 Thr Val Leu Ala Glu Ile Arg Gln Lys Ala Leu Pro Val Pro Val Leu
 65 70 75 80
 Ile Leu Thr Ala Arg Asp Ala Leu Glu Asp Arg Leu Lys Gly Leu Asp
 85 90 95
 Gly Gly Ala Asp Asp Tyr Ile Leu Lys Pro Phe Glu Met Ser Glu Leu
 100 105 110
 Leu Ala Arg Ile Arg Ala Val Ile Arg Arg Asn Thr Gly Asn Gly Asn
 115 120 125
 Pro Val Leu Ser Asn Gly Val Leu Thr Leu Asp Pro Val Thr His Glu
 130 135 140
 Ala Ser Ile Ser Glu Thr Gln Gln Lys Phe Leu Leu Ser Asn Arg Glu
 145 150 155 160
 Tyr Ala Leu Leu Glu Ala Leu Met Leu Arg Pro Gly Gly Ile Leu Ser
 165 170 175
 Arg Ser Ala Leu Glu Asp Arg Ile Tyr Gly Trp Gly Asp Glu Val Glu

180 185 190
 Ser Asn Ala Ile Glu Phe Leu Ile His Ala Leu Arg Lys Lys Leu Gly
 195 200 205
 Arg Asp Ala Ile Lys Asn Val Arg Gly Val Gly Trp Leu Val Ser Lys
 210 215 220
 Asn Gly
 225

<210> 7148

<211> 471

<212> PRT

<213> Enterobacter cloacae

<400> 7148

Thr Met Phe Gly Leu Asp Ala Phe His Leu Ala Arg Val Gln Phe Ala
 1 5 10 15
 Phe Thr Val Ser Phe His Ile Ile Phe Pro Ala Ile Thr Ile Gly Leu
 20 25 30
 Ala Ser Phe Leu Ala Val Leu Glu Gly Leu Trp Leu Lys Thr Arg Asn
 35 40 45
 Asp Thr Tyr Lys Glu Leu Tyr His Phe Trp Ser Lys Ile Phe Ala Val
 50 55 60
 Asn Phe Gly Met Gly Val Val Ser Gly Leu Val Met Ala Tyr Gln Phe
 65 70 75 80
 Gly Thr Asn Trp Ser Gly Phe Ser Gln Phe Ala Gly Ser Ile Thr Gly
 85 90 95
 Pro Leu Leu Thr Tyr Glu Val Leu Thr Ala Phe Phe Leu Glu Ala Gly
 100 105 110
 Phe Leu Gly Val Met Leu Phe Gly Trp Asn Arg Val Gly Pro Gly Leu
 115 120 125
 His Phe Phe Ala Thr Cys Met Val Ala Leu Gly Thr Leu Phe Ser Thr
 130 135 140
 Phe Trp Ile Leu Ser Ser Asn Ser Trp Met Gln Thr Pro Gln Gly Tyr
 145 150 155 160
 Ala Ile Glu Asn Gly Val Val Ile Pro Val Asp Trp Leu Lys Ile Ile
 165 170 175
 Phe Asn Pro Ser Phe Pro Phe Arg Leu His Met Ser Thr Ala Ala
 180 185 190
 Phe Leu Ala Ser Ala Phe Phe Val Gly Ala Ser Ala Ala Trp His Leu
 195 200 205
 Leu Lys Gly Asn Asp Thr Pro Ala Ile Arg Lys Met Phe Ser Met Ala
 210 215 220
 Leu Trp Met Ala Leu Ile Val Ser Pro Ile Gln Ala Val Ile Gly Asp
 225 230 235 240
 Ala His Gly Leu Asn Thr Leu Glu His Gln Pro Ala Lys Ile Ala Ala
 245 250 255
 Ile Glu Gly His Trp Glu Asn Lys Pro Gly Glu Ala Thr Pro Leu Val
 260 265 270
 Leu Phe Gly Leu Pro Asp Met Asn Ala Glu Glu Thr Lys Tyr Lys Ile
 275 280 285
 Glu Val Pro Tyr Leu Gly Ser Ile Ile Leu Thr His Ser Leu Asp Lys
 290 295 300
 Gln Val Pro Ala Leu Lys Ser Phe Pro Lys Glu Asp Arg Pro Asn Ser
 305 310 315 320
 Thr Ile Ile Phe Trp Ser Phe Arg Val Met Ala Gly Leu Gly Met Leu
 325 330 335
 Met Ile Leu Leu Gly Val Val Ser Val Trp Leu Arg Trp Arg Lys Arg
 340 345 350
 Leu Tyr Thr Ser Lys Pro Phe Leu Tyr Phe Ser Leu Phe Met Gly Pro
 355 360 365
 Ser Gly Leu Ile Ala Leu Leu Ala Gly Trp Phe Thr Thr Glu Ile Gly

370	375	380
Arg Gln Pro Trp Val Val Tyr Gly Val Gln Arg Thr Lys Asp Ala Val		
385	390	395
Ser Ala His Gly Asp Leu His Met Ser Ile Ser Leu Leu Ala Phe Leu		400
	405	410
Leu Val Tyr Thr Ser Val Phe Gly Val Gly Tyr Ile Tyr Leu Val Arg		415
	420	425
Leu Ile Lys Lys Gly Pro Val His Ala Glu Glu His Gln Glu Val Thr		430
	435	440
Asp Gly Thr Pro Ala Arg Pro Leu Ser Ala Val Asn Glu Gly Leu Ala		445
	450	455
Thr Arg Gly Arg Asp Lys		460
465	470	

<210> 7149

<211> 246

<212> PRT

<213> Enterobacter cloacae

<400> 7149

Thr Tyr His Pro Leu Leu Leu Met Glu Leu His Met Asn Pro Phe Lys		
1	5	10
Gly Arg His Phe Gln Arg Asp Ile Ile Leu Trp Ala Val Arg Trp Tyr		15
	20	25
Cys Lys Tyr Gly Ile Ser Tyr Arg Glu Leu Gln Glu Met Leu Ala Glu		30
	35	40
Arg Gly Val Asn Val Asp His Ser Thr Ile Tyr Arg Trp Val Gln Arg		45
	50	55
Tyr Ala Pro Glu Met Glu Lys Arg Leu Arg Trp Tyr Trp Arg Asn Pro		60
65	70	75
Ser Asp Leu Cys Pro Trp His Met Asp Glu Thr Tyr Val Lys Val Asn		80
	85	90
Gly Arg Trp Ala Tyr Leu Tyr Arg Ala Val Asp Ser Arg Gly Arg Thr		95
	100	105
Val Asp Phe Tyr Leu Ser Ser Arg Arg Asn Ser Lys Ala Ala Tyr Arg		110
	115	120
Phe Leu Gly Lys Ile Leu Asn Asn Val Lys Lys Trp Gln Ile Pro Arg		125
	130	135
Phe Ile Asn Thr Asp Lys Ala Pro Ala Tyr Gly Arg Ala Leu Ala Leu		140
145	150	155
Leu Lys Arg Glu Gly Arg Cys Pro Ser Asp Val Glu His Arg Gln Ile		160
	165	170
Lys Tyr Arg Asn Asn Val Ile Glu Cys Asp His Gly Lys Leu Lys Arg		175
	180	185
Ile Ile Gly Ala Thr Leu Gly Phe Lys Ser Met Lys Thr Ala Tyr Ala		190
	195	200
Thr Ile Lys Gly Ile Glu Val Met Arg Ala Leu Arg Lys Gly Gln Ala		205
	210	215
Ser Ala Phe Tyr Tyr Gly Asp Pro Leu Gly Glu Met Arg Leu Val Ser		220
225	230	235
Arg Val Phe Glu Met		240
	245	

<210> 7150

<211> 99

<212> PRT

<213> Enterobacter cloacae

<400> 7150

Cys Pro Met Thr Leu Ser Cys Ser Ser Thr Asp Phe Glu Asn Asp Ser		
1	5	10
		15

Asp Phe Arg Pro Ser Arg Ala Arg Cys Cys Leu Arg Phe Arg Leu Cys
 20 25 30
 Arg Ser Ile Arg Cys Val Tyr Arg Leu Leu Ile Thr Cys Ser Phe Pro
 35 40 45
 Phe Arg Arg Asp Ser Tyr Ser Gly Gln Pro Ser Val Ile His Ile Thr
 50 55 60
 Thr Ser Lys Gly Asp Ser Arg Leu Ile Arg Arg Pro Ser Val Ala Ile
 65 70 75 80
 Val Arg Ser Pro Asn Thr Cys Ala Thr Thr Val Phe Arg Ser Leu Ser
 85 90 95
 Tyr Ala

<210> 7151

<211> 462

<212> PRT

<213> Enterobacter cloacae

<400> 7151

Lys Cys Gln Gly Ser Arg Met Ala Gly Phe Lys Lys Arg Met Lys Thr
 1 5 10 15
 Ser Val Gln Leu Arg Leu Ser Leu Ala Leu Gly Ile Ala Ile Leu Leu
 20 25 30
 Thr Ala Val Ile Ser Gly Gly Ile Thr Phe Tyr Leu Ala Leu Asp Glu
 35 40 45
 Ala Arg Glu Leu Gln Asp Asp Thr Leu Lys Gln Ile Ala Tyr Val Thr
 50 55 60
 Lys Ser Pro Gly His Asn Ala Leu Pro Glu Ile Lys Gly Gln Lys Arg
 65 70 75 80
 Ala Asp Glu Asp Ser Asp Gly Lys Ile Leu Val Glu Tyr Leu Thr Val
 85 90 95
 Ser Gly Thr Gln Asn Asp Asp Thr Gly Ile Thr Phe His Leu Pro Ala
 100 105 110
 Pro Val Arg Glu Gly Phe Gln Asn Ala Thr Ile Thr Gly Val Gln Tyr
 115 120 125
 Arg Val Leu Val His Arg Leu Thr Pro Glu Gln Phe Val Ile Val Gly
 130 135 140
 Gln Gln Thr Glu Val Arg Asp Glu Ile Ala Phe Ala Ser Ala Leu Arg
 145 150 155 160
 Thr Leu Ile Pro Phe Ile Leu Leu Leu Pro Val Leu Leu Leu Val Thr
 165 170 175
 Thr Asp Leu Ile Lys Lys Ser Phe Arg Pro Val Leu Asn Leu Ala Ala
 180 185 190
 Gly Val Tyr Arg Arg Asp Glu Arg Asp Leu Thr Pro Leu Arg Asp Asp
 195 200 205
 Asn Ile Pro Asp Glu Ile Arg Pro Phe Val Glu Ser Ile Asn Arg Leu
 210 215 220
 Leu His Lys Val Asn Asn Thr Ile Gln Ala Gln Lys Arg Phe Ile Ala
 225 230 235 240
 Asp Ala Ala His Glu Leu Arg Thr Pro Leu Thr Ala Leu Ser Leu Gln
 245 250 255
 Ala Glu Arg Leu Ser Gly Ser Asp Met Ser Ala Glu Ala Arg Glu Arg
 260 265 270
 Leu Ala Ala Leu Arg Leu Gly Leu Thr Arg Glu Lys Asn Leu Leu Glu
 275 280 285
 Gln Leu Leu Ser Leu Ala Arg Glu Gln Gln Pro Leu Gln Thr Gln Gly
 290 295 300
 Thr Glu Ala Val Ser Leu Asn Glu Val Phe Arg Gln Val Ile Glu Thr
 305 310 315 320
 Leu Leu Pro Leu Ala Leu Glu Lys Gly Ile Asp Ile Gly Val Val Glu
 325 330 335


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Thr Pro Tyr Gln Ala Glu Ser Gln Val Ile Thr Glu Lys Asn Thr Leu
      340                      345                      350
Tyr Thr Ala Leu Lys Asn Leu Val Glu Asn Ala Ile His Tyr Ile Pro
      355                      360                      365
Glu Asn Gly Gln Ile Asp Leu Arg Leu Gln Phe Ile Asp Asn Ser Ala
      370                      375                      380
Val Ile Asp Val Glu Asp Asn Gly Pro Gly Ile Ala Ala Glu Gln Arg
      385                      390                      395                      400
Glu Arg Val Phe Asp Ala Phe Tyr Arg Pro Ala Gly Thr Glu Lys Pro
      405                      410                      415
Gly Ser Gly Leu Gly Leu Ser Ile Val Lys Ala Cys Val His Arg Leu
      420                      425                      430
Gly Gly Thr Ile Ile Leu Ala Pro Ser Ser His Phe Pro Ser Gly Leu
      435                      440                      445
Arg Ala Arg Ile Ile Leu Pro Val Glu Ser His Ser Gly
      450                      455                      460

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<210> 7152

<211> 116

<212> PRT

<213> Enterobacter cloacae

<400> 7152

```

Arg Tyr Arg Gly Cys Pro Val Pro Pro Gly Ser Leu Cys Ile Arg Ala
1      5      10      15
Arg Asn Ser Met Lys Asp Glu Ile Ala Arg Gln Ile Ala Gly Leu Ile
      20      25      30
Glu Leu Asn Lys Phe Asn Gly Tyr Thr Leu Val Ser Gly Glu Asp Trp
      35      40      45
Gln Lys Pro Thr Val Thr Glu Ile Leu Leu Val Arg Gly Phe Ile Pro
      50      55      60
Leu Thr Asp Asn Gln Leu Ala Asn Arg Leu Asp Val Asp Glu Arg Thr
      65      70      75      80
Ile Arg Lys Trp Lys Ser Gly Glu Thr Ser Met Val Tyr Thr Thr Trp
      85      90      95
Cys Cys Leu Cys Trp Leu Ala Gly Leu Gly Met Pro Leu Asp Asn Ile
      100      105      110
Ile Ser Gly
      115

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<210> 7153

<211> 347

<212> PRT

<213> Enterobacter cloacae

<400> 7153

```

Gly Phe Gly Asn Thr Trp Glu Arg Gln Ile Met Gly Ile Asp Leu Ser
1      5      10      15
Ile Ile Trp Phe Val Ile Ile Val Phe Ala Thr Leu Met Tyr Ile Val
      20      25      30
Met Asp Gly Phe Asp Leu Gly Ile Gly Ile Leu Phe Pro Phe His Lys
      35      40      45
His Asp Val Asp Arg Asp Thr Met Met Asn Thr Val Ala Pro Val Trp
      50      55      60
Asp Gly Asn Glu Thr Trp Met Val Leu Gly Gly Ala Ala Leu Tyr Gly
      65      70      75      80
Ala Phe Pro Leu Ala Tyr Ala Val Ile Ile Asp Ala Leu Ser Ile Pro
      85      90      95
Leu Thr Ala Met Leu Leu Gly Leu Ile Phe Arg Gly Val Ala Phe Glu
      100      105      110
Phe Arg Phe Lys Ala Ile Pro Glu His Arg Pro Ile Trp Asp Lys Ala

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```
<210> 7154
<211> 167
<212> PRT
<213> Enterobacter cloacae
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```
<210> 7155
<211> 127
```

<212> PRT

<213> Enterobacter cloacae

<400> 7155

Glu	Gln	Met	Arg	Gln	Asn	Ile	Gln	Leu	Gln	Pro	Glu	Tyr	His	Ser	Ala	
1				5					10					15		
Phe	Leu	Asp	Ser	Ala	Leu	Ser	Glu	Tyr	Phe	Arg	His	Ala	Gly	Asp	Arg	
			20					25					30			
Phe	Ala	Glu	Glu	Ser	Ala	Ile	Phe	Ser	Thr	Ala	Val	Arg	Cys	Val	Leu	
		35					40					45				
Ala	Ser	Glu	Gly	His	Leu	Thr	Asn	Lys	Ser	Ile	Ile	Leu	Trp	Leu	Ile	
	50					55					60					
Gln	Thr	Leu	Glu	Ser	Thr	Asp	Asp	Val	Val	Lys	Ala	Asp	Val	Ile	Arg	
65					70				75					80		
Lys	Thr	Leu	Glu	Ile	Val	Val	Gly	Tyr	Thr	Met	Asp	Asp	Leu	Tyr	Arg	
				85				90					95			
Leu	Thr	Leu	Pro	Ile	Ser	Ser	Asp	Ser	Val	Ser	Ser	Ser	Ile	Leu	Thr	
			100					105					110			
Asn	Gly	Leu	Thr	Ile	Thr	Cys	Pro	Leu	Ser	Pro	Asn	Ala	Leu			
		115					120					125				

<210> 7156

<211> 728

<212> PRT

<213> Enterobacter cloacae

<400> 7156

Thr	Leu	Leu	His	Phe	Leu	Thr	Gly	Leu	Leu	Leu	Met	Lys	Lys	Ile	Ala	
1				5					10					15		
Ser	Val	Cys	Pro	Tyr	Cys	Gly	Ala	Gly	Cys	Lys	Leu	Asn	Leu	Val	Val	
			20					25					30			
Lys	Asn	Asn	Arg	Ile	Ile	Arg	Ala	Glu	Ala	Ala	Asp	Gly	Val	Thr	Asn	
		35					40					45				
Gln	Gly	Thr	Leu	Cys	Leu	Lys	Gly	Phe	Tyr	Gly	Trp	Asp	Phe	Leu	Asn	
	50					55					60					
Asp	Thr	Arg	Leu	Leu	Thr	Pro	Arg	Leu	Thr	Gln	Pro	Met	Ile	Arg	Tyr	
65					70				75					80		
Ser	Lys	Gly	Glu	Ala	Phe	Thr	Pro	Val	Thr	Trp	Glu	Glu	Ala	Ile	Arg	
				85				90					95			
Tyr	Thr	Ala	Tyr	Arg	Leu	Lys	Ser	Ile	Lys	Glu	Gln	Tyr	Gly	Pro	Arg	
		100						105					110			
Ser	Ile	Met	Thr	Thr	Gly	Ser	Ser	Arg	Gly	Thr	Gly	Asn	Glu	Thr	Asn	
		115					120					125				
Tyr	Val	Met	Gln	Lys	Phe	Ala	Arg	Ala	Val	Leu	Asn	Thr	Asn	Asn	Val	
	130					135				140						
Asp	Cys	Cys	Ala	Arg	Val	Cys	His	Gly	Pro	Ser	Val	Ala	Gly	Leu	Gln	
145					150					155				160		
Glu	Thr	Leu	Gly	Asn	Gly	Ala	Met	Ser	Asn	Ser	Ile	Asn	Asp	Ile	Glu	
				165					170					175		
Asn	Ser	Lys	Cys	Leu	Leu	Val	Phe	Gly	Tyr	Asn	Cys	Ala	Asp	Ser	His	
			180					185					190			
Pro	Ile	Val	Ala	Arg	Arg	Val	Leu	Lys	Ala	Arg	Glu	Asn	Gly	Ala	Lys	
		195					200						205			
Ile	Ile	Val	Cys	Asp	Pro	Arg	His	Ile	Glu	Thr	Ala	Arg	Ile	Ala	Asp	
	210					215					220					
Leu	His	Leu	Gln	Leu	Lys	Asn	Gly	Ser	Asn	Met	Ala	Leu	Val	Asn	Ala	
				230						235				240		
Phe	Gly	Tyr	Val	Leu	Leu	Glu	Glu	Glu	Leu	Tyr	Asp	Lys	Asn	Tyr	Val	
				245					250					255		
Ala	Arg	Phe	Thr	Glu	Gly	Leu	Glu	Ala	Tyr	Arg	Leu	Thr	Val	Lys	Asp	
			260					265					270			

Tyr Ala Pro Glu Gln Val Glu His Leu Thr Gly Ile Pro Ala Arg Asp
 275 280 285
 Val Arg Gln Ala Met Arg Met Phe Ala Ala Ala Pro Ser Ala Thr Val
 290 295 300
 Met Trp Gly Met Gly Val Thr Gln Phe Gly Gln Ala Val Asp Val Val
 305 310 315 320
 Lys Gly Leu Ser Ser Leu Ala Leu Leu Thr Gly Asn Leu Gly Arg Pro
 325 330 335
 Ala Val Gly Val Gly Pro Val Arg Gly Gln Asn Asn Val Gln Gly Ala
 340 345 350
 Cys Asp Met Gly Val Leu Pro Asn Met Phe Pro Gly Tyr Gln Asp Val
 355 360 365
 Thr Asp Pro Ala Val Arg Leu Lys Phe Ala Asp Ala Trp Lys Ile Asn
 370 375 380
 Val Asn Arg Met Asp Asp Arg Val Gly Thr Arg Ile Thr Glu Val Pro
 385 390 395 400
 His Leu Ala Leu Glu Gly Lys Ile Lys Ala Tyr Tyr Ile Met Gly Glu
 405 410 415
 Asp Pro Leu Gln Thr Glu Ala Asp Leu Gly Leu Val Arg Arg Gly Phe
 420 425 430
 Glu Ala Leu Asp Phe Val Val Val Gln Asp Ile Phe Met Thr Lys Thr
 435 440 445
 Ala Glu Leu Ala Asp Val Leu Leu Pro Ala Thr Ser Trp Gly Glu His
 450 455 460
 Ala Gly Val Phe Thr Cys Ala Asp Arg Gly Phe Gln Arg Phe Gly Lys
 465 470 475 480
 Ala Ile Glu Pro Ser Gly Asn Val Arg Arg Asp Trp Glu Ile Ile Ser
 485 490 495
 Leu Leu Ala Thr Glu Met Gly Tyr Pro Met His Tyr Glu Asp Asn Gln
 500 505 510
 Gln Ile Trp Asp Glu Met Arg Glu Leu Cys Pro Leu Phe Tyr Gly Val
 515 520 525
 Thr Tyr Glu Lys Met Gly Glu Met Gly His Val Gln Trp Pro Cys Pro
 530 535 540
 Thr Leu Asp His Pro Gly Thr Pro Tyr Leu Tyr Lys Asp Asn Gln Phe
 545 550 555 560
 Asp Thr Pro Thr Gly Lys Gly Gln Leu Phe Ala Ala Pro Trp Arg Ala
 565 570 575
 Pro Ala Glu Thr Pro Asp Ala Asp Tyr Pro Leu Val Leu Cys Thr Val
 580 585 590
 Arg Glu Val Gly His Tyr Ser Cys Arg Ser Met Thr Gly Asn Cys Ala
 595 600 605
 Ala Leu Gln Ser Leu Ala Asp Glu Pro Gly Arg Val Gln Ile Asn Pro
 610 615 620
 Ala Asp Ala Asp Glu Arg Gly Ile Ala Glu Gly Gln Leu Val Trp Val
 625 630 635 640
 Arg Ser Arg Arg Gly Lys Val Ile Thr Arg Ala Ser Ile Ser Glu Arg
 645 650 655
 Ile Asn Ala Gly Ala Ile Tyr Met Thr Tyr Gln Trp Trp Ile Gly Ala
 660 665 670
 Cys Asn Glu Leu Thr Gln Asp Asn Leu Asp Pro Ile Ser Arg Thr Pro
 675 680 685
 Glu Thr Lys Tyr Cys Ala Val Gln Leu Glu Ala Ile Glu Asp Gln Arg
 690 695 700
 Trp Ala Glu Asp Phe Ala Ala Ser Ala Tyr Gln Thr Met Lys Thr Arg
 705 710 715 720
 Leu Ile Ala Ala Val Asn Val
 725

<210> 7157

<211> 229

<212> PRT

<213> Enterobacter cloacae

<400> 7157

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Gly Lys Lys Met Arg Phe Ile Thr Thr Thr Gly Leu Val Met Ala Leu
1      5      10      15
Leu Pro Leu Thr Leu Thr Ser Ala Ser Ala Gly Val Ile Ile Gly Gly
      20      25      30
Thr Arg Val Ile Phe Asp Gly Ala Lys Lys Glu Ala Ser Ile Asn Ile
      35      40      45
Thr Asn Pro Asp Asn Gly Pro Tyr Leu Ile Gln Ser Trp Ile Asp Val
      50      55      60
Gln Asp Glu Gln Ser Gly Lys Ala Pro Phe Ile Ile Thr Pro Pro Leu
65      70      75      80
Tyr Arg Leu Asp Gly Gly Gln Lys Asn Leu Glu Arg Ile Val Met Thr
      85      90      95
Gly Ser Leu Pro Gln Gly Gln Glu Ser Leu Phe Trp Leu Asn Ile Lys
      100     105     110
Ala Ile Pro Ser Ala Ser Lys Gln Met Asn Ser Leu Gln Ile Ala Val
      115     120     125
Lys Thr Arg Ile Lys Leu Ile Tyr Arg Pro Glu Ala Leu Arg Ala Ser
      130     135     140
Thr Pro Glu Glu Gln Ala Asn Lys Leu Thr Trp Arg Arg Ala Gly Asn
145     150     155     160
Thr Leu Leu Val Asn Asn Pro Thr Pro Tyr Val Ile Asn Phe Asn Glu
      165     170     175
Ile Thr Leu Gly Asn Lys Lys Leu Asp Asp Val Thr Tyr Val Met Pro
      180     185     190
Ser Gly Thr Ala Arg Phe Pro Leu Pro Asn Gly Thr Ser Gly Asn Thr
      195     200     205
Leu Thr Phe Lys Val Ile Asn Asp Tyr Gly Ser Pro Gly Glu Leu His
      210     215     220
Arg Ala Ser Leu
225

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<210> 7158

<211> 857

<212> PRT

<213> Enterobacter cloacae

<400> 7158

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Ser Leu Arg Val Asn Gln Val Leu Val Met Thr Thr Ala Leu Asn Thr
1      5      10      15
Met Gln Pro Ala Arg Leu Ala Ile Phe Ile Ala Leu Ala Leu Ala Gly
      20      25      30
Val Ser Pro Thr Leu Tyr Ala Ser Glu Thr Phe Asn Thr Glu Leu Val
      35      40      45
Glu Leu Asp Asn Pro Gly Met Gly Lys Ala Asp Leu Ser Ala Phe Glu
50      55      60
Ser Gly Ser Gln Ala Pro Gly Thr Tyr His Val Asp Ile Ile Leu Asp
65      70      75      80
Asp Arg Leu Leu Glu Thr Arg Asp Ile Arg Phe Met Ala Val Lys Asp
      85      90      95
Ala Asn Gly Ser Glu Thr Leu Gln Pro Cys Leu Ser Ile Gly Gln Leu
      100     105     110
Lys Ala Trp Gly Val Lys Thr Ala Leu Phe Pro Gln Leu Asp Ala Gly
      115     120     125
Glu Gly Glu Cys Ala Asp Leu Arg Ala Ile Pro Gln Ala Ser Ala Asp
130     135     140
Phe Gln Phe Gly Ala Gln Arg Leu Ala Ile Ser Ile Pro Gln Ala Ala
145     150     155     160

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Ile Asp Leu Pro Ala Arg Gly Tyr Val Pro Pro Asp Met Trp Asp Glu
 165 170 175
 Gly Ile Thr Ala Ala Met Leu Asn Tyr Ser Leu Ser Gly Ala Asn Ser
 180 185 190
 Arg Ala Arg Ser Gly Ala Gly Thr Arg Ser Asp Ser Gln Tyr Ala Asn
 195 200 205
 Leu Arg Pro Gly Ile Asn Val Gly Pro Trp Arg Leu Arg Asn Tyr Thr
 210 215 220
 Thr Trp Ser Arg Asp Ala Ser Gly Leu Asp Lys Trp Asp Asn Val Tyr
 225 230 235 240
 Thr Leu Met Gln Arg Ala Ile Ile Pro Leu Gln Ala Gln Leu Thr Leu
 245 250 255
 Gly Asp Ser Ser Ala Pro Ala Asp Val Phe Asp Ser Met Pro Phe Arg
 260 265 270
 Gly Val Gln Leu Ala Ser Asp Asp Asp Met Leu Pro Asp Ser Leu Lys
 275 280 285
 Gly Tyr Ala Pro Val Val Arg Gly Ile Ala Arg Thr Asn Ala Gln Val
 290 295 300
 Val Val Arg Gln Asn Gly Tyr Gln Ile Tyr Gln Ser Tyr Val Ala Pro
 305 310 315 320
 Gly Ala Phe Glu Ile Ala Asp Met Tyr Pro Thr Gly Gly Ala Gly Asp
 325 330 335
 Leu Asp Val Thr Ile Val Glu Ala Asp Gly Ser Glu Gln His Phe Thr
 340 345 350
 Leu Pro Tyr Ala Ser Leu Pro Val Leu Gln Arg Glu Gly Arg Leu Lys
 355 360 365
 Tyr Ala Leu Thr Ala Gly Gln Tyr Arg Ser Tyr Asn Arg Ser Val Glu
 370 375 380
 Lys Thr Pro Phe Gly Gln Leu Thr Gly Ile Tyr Gly Leu Pro His Gly
 385 390 395 400
 Ile Thr Leu Tyr Gly Gly Val Gln Gly Ala Asp Lys Tyr Gln Ser Ala
 405 410 415
 Ala Leu Gly Met Gly Lys Asn Met Gly Asp Leu Gly Ala Val Ser Ala
 420 425 430
 Asp Val Thr Leu Gly Trp Ser Thr Pro Glu His Thr Ala Lys Thr Asn
 435 440 445
 Gly Gln Ser Trp Arg Ala Arg Tyr Ser Lys Asn Phe Ile Thr Thr Gly
 450 455 460
 Thr Asn Phe Ser Ile Ala Gly Tyr Arg Tyr Ser Thr Arg Gly Tyr Tyr
 465 470 475 480
 Gly Met Gln Asp Val Leu Gly Ser Tyr Gly Asp Ser Ser Ala Leu Gln
 485 490 495
 Asp Arg Arg Arg Asn Arg Ala Glu Leu Thr Met Ser Gln Thr Leu Gly
 500 505 510
 Asp Asn Leu Gly Ala Leu Thr Leu Ser Ala Ala Arg Glu Asp Tyr Trp
 515 520 525
 Asn Asp Gly Lys Ser Met Ala Ser Trp Ser Val Gly Tyr Ser Asn Tyr
 530 535 540
 Trp His Asn Ile Ser Tyr Gly Leu Thr Trp Thr Tyr Ser Lys Asn Val
 545 550 555 560
 Arg Ser Ala Ser Glu Asn Arg Lys Ser Gln Lys Asn Ala Asp His Asn
 565 570 575
 Gln Leu Leu Ser Phe Asn Val Ser Ile Pro Leu Asp Lys Phe Leu Pro
 580 585 590
 Gln Thr Trp Ala Asn Tyr Gly Met Asn Ala Ser Ser Asn Asn Gly Thr
 595 600 605
 Thr His Asn Val Gly Leu Asn Gly Val Ala Leu Glu Asn Arg Ala Leu
 610 615 620
 Ser Trp Asn Val Gln Gln Gly Tyr Gly Thr Glu Gly Val Gly Asn Thr
 625 630 635 640
 Gly Asn Val Asn Ala Asp Tyr Lys Gly Thr Tyr Gly Glu Val Thr Ala

				645					650					655			
Gly	Tyr	Gly	Tyr	Asp	Lys	Asn	Ser	Glu	Arg	Leu	Asn	Tyr	Gly	Leu	Gln		
			660					665					670				
Gly	Gly	Ile	Leu	Ala	His	Ala	Asp	Gly	Ile	Thr	Leu	Ser	Gln	Pro	Leu		
		675					680					685					
Gly	Glu	Thr	Ser	Val	Leu	Ile	Lys	Ala	Pro	Gly	Ala	Tyr	Asp	Val	Asp		
	690					695					700						
Ile	Arg	Asn	Gln	Pro	Gly	Val	Arg	Thr	Asp	Phe	Arg	Gly	Tyr	Thr	Val		
705					710				715						720		
Val	Ser	Asn	Leu	Ser	Val	Tyr	Arg	Lys	Asn	Asp	Leu	Thr	Leu	Asp	Pro		
			725						730					735			
Glu	Thr	Met	Pro	Asp	Asp	Val	Glu	Leu	Glu	Ile	Asn	Thr	Arg	Thr	Val		
			740					745					750				
Thr	Pro	Thr	Arg	Gly	Ala	Val	Val	Arg	Ala	Asp	Tyr	Leu	Pro	Lys	Ser		
		755					760					765					
Gly	Arg	Arg	Val	Leu	Met	Thr	Leu	Thr	Asp	Asn	Asp	Arg	Ala	Val	Pro		
	770					775					780						
Phe	Gly	Ala	Val	Val	Thr	Leu	Val	Gly	Asp	Glu	Ser	Gly	Ser	Phe	Ile		
785					790				795						800		
Val	Gly	Asp	Arg	Gly	Gln	Val	Tyr	Leu	Thr	Gly	Met	Arg	Glu	Gln	Gly		
			805						810					815			
Thr	Leu	Val	Ala	Thr	Trp	Gly	Ser	Gln	Ser	Ser	Gln	Gln	Cys	Arg	Ala		
			820					825					830				
Asp	Phe	Thr	Leu	Pro	Asn	His	Ser	Met	Tyr	Gly	Gly	Ile	Ala	Asp	Met		
		835				840						845					
Arg	Ala	Thr	Cys	Arg	Gln	Glu	Arg										
	850					855											

<210> 7159

<211> 227

<212> PRT

<213> Enterobacter cloacae

<400> 7159

Arg	Cys	Thr	Ala	Gly	Asp	Glu	Gln	Pro	Thr	Ile	Phe	Ala	Thr	Val	Cys		
1				5					10					15			
Arg	Gly	Ala	Arg	Asp	Val	Ala	Ile	Asn	Gly	Pro	Ile	Leu	Pro	Asp	Val		
		20						25					30				
Asn	Pro	Arg	Gly	Val	Arg	Phe	Ser	Glu	Cys	Leu	Arg	His	Pro	Glu	Phe		
		35					40					45					
Asp	Leu	Pro	Val	Ala	Gly	Lys	Lys	Met	Lys	Ile	Arg	Cys	Arg	Thr	Leu		
	50					55					60						
Leu	Leu	Leu	Ala	Leu	Leu	Ser	Gly	Lys	Val	Cys	Ser	Ala	Asp	Ser	Val		
	65				70					75					80		
Asn	Ile	Gly	Val	Thr	Gly	Asn	Ile	Val	Ala	Ser	Pro	Cys	Ile	Phe	Asn		
			85					90						95			
Gly	Gly	Asn	Asn	Asn	Leu	Asp	Val	Asn	Leu	Gly	Asn	Ile	Gln	Ala	Thr		
		100						105					110				
Asn	Met	Ala	Thr	Pro	Gly	Ser	Thr	Ser	Asp	Pro	Val	Pro	Phe	Ser	Leu		
		115					120					125					
Leu	Phe	Thr	Gln	Cys	Pro	Thr	Gly	Thr	Gln	Ser	Val	Thr	Val	Ala	Phe		
	130					135					140						
Thr	Gly	Ser	Pro	Asp	Pro	Glu	Ala	Gly	Ala	Asp	Tyr	Phe	Met	Asn	Ser		
	145				150					155					160		
Gly	Ser	Ala	Thr	His	Val	Ala	Ile	Ala	Met	Arg	Asp	Ala	Gln	Thr	Gly		
			165					170						175			
Ala	Leu	Lys	Gly	Thr	Gly	Ser	Ser	Met	Thr	Gln	Thr	Ile	Ala	Ala	Asp		
		180					185					190					
Arg	Thr	Ala	Thr	Leu	Ala	Met	Leu	Ala	Ser	Val	Lys	Ser	Met	Thr	Gly		
		195				200					205						
Gly	Ala	Thr	Pro	Gly	Ser	Ile	Arg	Ala	Val	Val	Val	Met	Thr	Met	Gln		

210
Tyr Asn
225

215

220

<210> 7160

<211> 428

<212> PRT

<213> Enterobacter cloacae

<400> 7160

Cys	Ala	Ile	Thr	Glu	Phe	Ser	Pro	Arg	Val	Phe	Val	Val	Thr	Pro	Ser
1				5					10					15	
Ile	Phe	Arg	Ile	Ser	Met	Leu	Thr	Thr	Ile	Ile	Tyr	Arg	Ser	His	Ile
			20					25					30		
Cys	Glu	Asp	Val	Pro	Val	Lys	Ala	Leu	Glu	Asp	Met	Val	Ala	Ala	Ala
		35					40					45			
Asn	Cys	Arg	Asn	Arg	Gln	Phe	Asp	Val	Thr	Gly	Ile	Leu	Leu	Phe	Asn
	50					55					60				
Gly	Thr	His	Phe	Phe	Gln	Leu	Leu	Glu	Gly	Pro	Ala	Asp	Asn	Val	Lys
65					70					75					80
Glu	Ile	Tyr	Gln	Leu	Ile	Cys	Arg	Asp	Pro	Arg	His	His	Asn	Val	Val
				85					90					95	
Glu	Leu	Leu	Ser	Asp	His	Gly	Pro	Ser	Arg	Arg	Phe	Gly	Asn	Val	Gly
			100					105					110		
Met	Glu	Leu	Phe	Asp	Leu	Arg	Gln	Tyr	Asp	Thr	Asp	Glu	Val	Leu	Gln
		115					120					125			
Lys	Val	Leu	Asp	Lys	Gly	Thr	Thr	Arg	Tyr	Gln	Leu	Thr	Tyr	Asn	Asp
	130					135					140				
Arg	Ala	Leu	Gln	Phe	Phe	Arg	Thr	Phe	Val	Glu	Ala	Thr	Glu	Lys	Ala
145					150					155					160
Asn	Tyr	Phe	Glu	Leu	Pro	Pro	Ala	Asp	Ala	Trp	Glu	Phe	Val	Thr	Glu
				165					170					175	
Asn	Thr	Pro	Leu	Ser	Ser	Gln	Pro	Thr	Val	Val	Ala	Lys	Gly	Ala	Asp
			180					185					190		
Cys	Ser	Phe	Ala	Phe	Gln	Pro	Ile	Val	Asp	Pro	Phe	Met	Gln	Gln	Val
		195				200						205			
Val	Ser	Trp	Glu	Ala	Leu	Ile	Arg	Thr	Pro	Ser	Gly	Glu	Ser	Pro	Glu
	210					215					220				
Ser	Tyr	Phe	Ala	Asn	Leu	Ser	Arg	Glu	Ala	Leu	Tyr	Glu	Ser	Asp	Leu
225				230						235					240
Lys	Ser	Lys	Gln	Val	Ala	Leu	Ser	Met	Ala	Ser	Ala	Leu	Gly	Leu	Gln
				245					250					255	
Thr	Gln	Thr	Leu	Ser	Ile	Asn	Leu	Leu	Pro	Met	Thr	Leu	Val	Asn	Val
			260					265					270		
Pro	Gly	Ala	Val	Asp	Phe	Leu	Leu	Thr	Ala	Ile	Glu	Ala	Asn	Gly	Phe
		275					280					285			
Val	Pro	Glu	Gln	Ile	Val	Val	Glu	Phe	Thr	Glu	Ser	Glu	Ala	Ile	Ser
	290					295					300				
Arg	Phe	Glu	Glu	Phe	Thr	Ser	Ala	Val	Arg	Gln	Leu	Lys	Ser	Ala	Gly
305					310					315					320
Ile	Ser	Val	Ala	Ile	Asp	His	Phe	Gly	Ala	Gly	Phe	Ala	Gly	Leu	Gln
				325					330					335	
Leu	Leu	Ala	Gln	Phe	Gln	Pro	Asp	Arg	Ile	Lys	Ile	Asn	Arg	Asp	Leu
			340					345					350		
Ile	Ala	Asn	Val	His	Lys	Ser	Gly	Pro	Arg	Gln	Ala	Ile	Ile	Gln	Ser
		355					360					365			
Ile	Ile	Lys	Cys	Cys	Ala	Ser	Leu	Glu	Ile	Leu	Phe	Cys	Ala	Val	Gly
	370					375					380				
Val	Glu	Leu	Ala	Glu	Glu	Trp	Met	Trp	Leu	Glu	Ser	Ala	Gly	Ile	Ser
385					390					395					400
Gln	Phe	Gln	Gly	His	Leu	Phe	Ala	Ser	Pro	Arg	Leu	Gly	Gly	Ile	Pro

Ala Ile Ala Trp 405 Pro Glu Lys Lys Tyr Asp Leu 415
 420 425

<210> 7161
 <211> 284
 <212> PRT
 <213> Enterobacter cloacae

<400> 7161
 Arg Val Ser Gly Ser Leu Ser His Ser Leu Val Ser Glu Arg Gly Val
 1 5 10 15
 Ser Tyr Thr Asn Asp Leu Tyr Asn Leu Ile Arg Leu Val Trp Leu Gly
 20 25 30
 Met Glu Val Leu Cys Val Arg Glu Leu Met Ala Tyr Tyr Ser Ile Gly
 35 40 45
 Glu Val Ala Glu Arg Cys Gly Ile Asn Pro Val Thr Leu Arg Ala Trp
 50 55 60
 Gln Arg Arg Tyr Gly Leu Leu Lys Pro Gln Arg Ser Glu Gly Gly His
 65 70 75 80
 Arg Gln Phe Asp Asp Glu Asp Ile Leu Arg Ile Glu Glu Ile Lys Arg
 85 90 95
 Leu Met Lys Thr Gly Val Ser Val Gly Lys Val Lys Ala Leu Leu Glu
 100 105 110
 Asn Thr Glu Val Met Thr Gln Gly Asn Trp Ala Ser Phe Gln Glu Glu
 115 120 125
 Met Leu Thr Val Leu Arg Tyr Ala Ser Pro Ala Lys Leu Arg Ala Lys
 130 135 140
 Ile Gly Glu Phe Arg Arg Asp His Ala Met Asp Val Leu Ile Asp Asn
 145 150 155 160
 Ile Ile Thr Pro Val Arg Gln Arg Met Asn Gln Asp Gln Asn Thr Val
 165 170 175
 Arg His Met Ala Ser Leu Leu Asp Gly Val Leu Ile Glu Phe Ala Val
 180 185 190
 Ala Ser Leu Gly Glu Ser Arg Lys Lys Ala Gly Lys Asp Ala Leu Leu
 195 200 205
 Ile Gly Trp Glu Cys Asp Asp Arg Thr His Leu Trp Leu Glu Ala Ala
 210 215 220
 Arg Leu Ala Tyr Lys Gly Trp His Ile Asp Val Leu Ala Glu Pro Ile
 225 230 235 240
 Asp Ser Pro Arg Pro Glu Leu Ile Pro Gly Gln Lys Ile Phe Val Trp
 245 250 255
 Thr Gly Lys Ala Pro Thr Pro Arg Gln Gln Glu Gln Leu Asp His Trp
 260 265 270
 Arg Glu Gln Gly Phe Ala Val Ser Ile His His
 275 280

<210> 7162
 <211> 126
 <212> PRT
 <213> Enterobacter cloacae

<400> 7162
 Gly Gly Pro Met Glu Leu His Ser Glu Thr Phe Asn Pro Ala Asp Phe
 1 5 10 15
 Ala Trp Arg Gly Leu Thr Leu Thr Pro Ala Ala Ala His Ile His
 20 25 30
 Glu Leu Val Ala Lys Asn Pro Asp Ile Leu Gly Val Arg Leu Gly Val
 35 40 45
 Lys Gln Thr Gly Cys Ala Gly Phe Gly Tyr Val Leu Asp Thr Val Thr
 50 55 60

Glu Pro Glu Lys Asp Asp Leu Val Phe Glu Thr Asp Gly Ala Lys Leu
 65 70 75 80
 Tyr Val Ala Leu Gln Ala Met Pro Phe Ile Asp Gly Thr Glu Val Asp
 85 90 95
 Tyr Val Arg Glu Gly Leu Asn Gln Leu Phe Lys Phe His Asn Pro Lys
 100 105 110
 Ala Gln Asn Glu Cys Gly Cys Gly Glu Ser Phe Gly Val
 115 120 125

<210> 7163

<211> 439

<212> PRT

<213> Enterobacter cloacae

<400> 7163

Asn Pro Val Thr Leu Arg Trp Leu Asn Asn Trp Arg Ser Arg Val Met
 1 5 10 15
 Ala Gly Leu Pro Asn Ser Ser Asn Ala Leu Gln Gln Trp His Arg Leu
 20 25 30
 Phe Glu Ala Gln Ala Gly Ala Arg Ser Glu Gln Ala Gln His His Leu
 35 40 45
 Gln Gln Met Leu Arg Leu Gly Leu Pro Thr Arg Lys His Glu Asn Trp
 50 55 60
 Lys Tyr Thr Pro Leu Asp Gly Leu Leu Asn Gly Glu Phe Val Thr Arg
 65 70 75 80
 Leu Ala Gln Val Ser Pro Gly Gln Arg Asp Val Leu Ala Leu Ser Val
 85 90 95
 Asp Ala Val Arg Leu Val Phe Val Asp Gly Gln Phe Arg Glu Glu Leu
 100 105 110
 Ser Asp Ser Val Gln Glu Ser Gly Phe Asp Ile Val Ile Asn Asp Glu
 115 120 125
 Arg Gln Ser Leu Asn Ala Pro Val Gln Pro Glu Val Phe Leu His Leu
 130 135 140
 Thr Glu Ser Leu Ser Gln Ser Val Thr His Ile Arg Val Lys Arg Asn
 145 150 155 160
 Gln Arg Pro Ala Lys Pro Leu Leu Leu Met His Ile Thr Gln Gly Val
 165 170 175
 Ala Gly Asp Glu Ile Asn Thr Ala His Tyr Arg His His Leu Glu Leu
 180 185 190
 Ala Glu Gly Ala Glu Ala Thr Val Ile Glu His Tyr Val Ser Leu Asn
 195 200 205
 Asp Thr Arg His Phe Thr Gly Ser Arg Leu Thr Met Asn Val Ala Ala
 210 215 220
 Asn Ala Gln Leu His His Ile Lys Leu Ala Phe Glu Asn Pro Leu Ser
 225 230 235 240
 His His Phe Ala His Asn Asp Ile Leu Leu Gly Gln Asp Ala Ala Ala
 245 250 255
 Tyr Ser His Ser Phe Leu Leu Gly Gly Ala Val Leu Arg His Asn Thr
 260 265 270
 Ser Thr Gln Leu Asn Gly Glu Asn Thr Thr Leu Arg Ile Asn Ser Leu
 275 280 285
 Ala Met Pro Val Lys Ser Glu Val Cys Asp Thr Arg Thr Trp Leu Glu
 290 295 300
 His Asn Lys Gly Tyr Cys Asn Ser Arg Gln Leu His Lys Thr Ile Val
 305 310 315 320
 Ser Asp Lys Gly Arg Ala Val Phe Asn Gly Leu Ile Asn Val Ala Gln
 325 330 335
 His Ala Ile Lys Thr Asp Gly Gln Met Thr Asn Asn Asn Leu Leu Leu
 340 345 350
 Gly Arg Leu Ala Glu Val Asp Thr Lys Pro Gln Leu Glu Ile Tyr Ala
 355 360 365

Asp Asp Val Lys Cys Ser His Gly Ala Thr Val Gly Arg Ile Asp Asp
 370 375 380
 Glu Gln Met Phe Tyr Leu Arg Ser Arg Gly Ile Asp Gln Gln Ala Ala
 385 390 395 400
 Gln Lys Met Ile Ile Tyr Ala Phe Ala Ala Glu Leu Thr Glu Ala Leu
 405 410 415
 Pro Asp Gly Gly Leu Lys Gln Gln Val Leu Ala Arg Ile Gly Gln Arg
 420 425 430
 Leu Pro Gly Gly Glu Ala
 435

<210> 7164

<211> 355

<212> PRT

<213> Enterobacter cloacae

<400> 7164

Ser Pro His Gly Glu Val Asn Pro Ala Ser Asn Ala Ala Leu Ile Ser
 1 5 10 15
 Arg Cys Arg Ile Thr Gln Cys Thr Val Gly Ser Leu Ile Cys Ala Pro
 20 25 30
 Pro Ala Val Arg Asn Ala Asn Met Lys Cys Leu Asn Ser Met Leu Leu
 35 40 45
 Leu Cys Leu Leu Ala Ala Gly Ser Ile Ala Arg Ala Gly Thr Cys Thr
 50 55 60
 Thr Ile Ile Pro Gln Leu Ser Thr Leu Ser Val Gly Thr Ile Asn Val
 65 70 75 80
 Gln Arg Asp Ala Pro Val Gly Thr Val Val Phe Ser Gly Ala Ala Ser
 85 90 95
 Ala Thr Gly Ser Tyr Leu Thr Gly Cys Thr Asn Pro Leu Met Leu Gly
 100 105 110
 Phe Ser Met Arg Tyr Asn Ser Ala Thr Leu Ser Ser Tyr Gly Asn His
 115 120 125
 Val Tyr Asn Thr Asn Val Ile Gly Ile Gly Ile Arg Phe Ser Ser Asn
 130 135 140
 Gly Tyr Phe Glu Asn Pro Ser Asn Thr Phe Ser Tyr Asn Ala Gln Thr
 145 150 155 160
 Ser Tyr Val Asp Trp Tyr Gly Gly Arg Ile Glu Leu Val Val Thr Gly
 165 170 175
 Pro Val Ser Ser Gly Ala Leu Thr Pro Gly Val Ile Gly Val Val Thr
 180 185 190
 Leu Gln Gly Ser Asp Gly Leu Tyr Arg Asp Gly Leu Thr Thr Gln Leu
 195 200 205
 Thr Ser Gly Asn Ile Asn Ala Leu Ala Cys Thr Val Asn Thr Ala Gln
 210 215 220
 Leu Thr Phe Pro Ile Gly Asp Ile Pro Ala Ser Ala Phe Gly Thr Val
 225 230 235 240
 Val Gly Thr Thr Pro Ala Gly Ala Gln Asn Thr Gln Asn Leu Gly Leu
 245 250 255
 Thr Cys Ala Ala Gly Thr Asn Ile Thr Val Ser Leu Ser Gly Ile Gln
 260 265 270
 Asn Pro Asp Ser Ala Asn Thr Ser Val Met Ala Leu Thr Gly Gln Gly
 275 280 285
 Asn Ala Gly Thr Ala Lys Gly Val Gly Val Gln Leu Ile Tyr Asn Gly
 290 295 300
 Ala Pro Leu Ala Met Asn Ser Arg Leu Phe Leu Arg Gln Ser Ala Gly
 305 310 315 320
 Gly Gln Glu Thr Leu Pro Leu Thr Ala Arg Tyr Tyr Gln Thr Leu Thr
 325 330 335
 Arg Val Glu Ser Gly Ser Ala Asn Ala Ser Ala Thr Leu Asn Leu Thr
 340 345 350

Tyr Gln
355

<210> 7165
<211> 178
<212> PRT
<213> Enterobacter cloacae

<400> 7165
Gly Thr Gly His Val Pro Arg Ile Ala Gly Asp Val Gln His Asn Gly
1 5 10 15
Arg Gly Arg Gln Thr Gly Gly Gly Ile Lys Thr Tyr Ser Ser Ala Ala
20 25 30
Trp Leu Thr Glu Arg Arg Glu Met Ala Asp Leu Pro Asp Arg Asp Lys
35 40 45
Leu Leu Arg Asn Phe Gly Arg Cys Ala Asn Trp Glu Glu Lys Tyr Leu
50 55 60
Tyr Ile Ile Glu Leu Gly Gln Arg Leu Pro Pro Leu Ser Glu Glu Ala
65 70 75 80
His Asn Pro Asp Asn Ile Ile Gln Gly Cys Gln Ser Gln Val Trp Ile
85 90 95
Gln Met Gln Gln Thr Asp Asp Val Val Ile Asp Leu Gln Gly Asp Ser
100 105 110
Asp Ala Ala Ile Val Lys Gly Leu Ile Ala Val Val Phe Ile Leu Tyr
115 120 125
His Gln Met Ser Ala Gln Asp Ile Val Ala Phe Asp Val Arg Pro Trp
130 135 140
Phe Glu Lys Met Ala Leu Thr Gln His Leu Thr Pro Ser Arg Ser Gln
145 150 155 160
Gly Leu Glu Ala Met Ile Arg Ala Ile Arg Ala Lys Ala Ala Ile Leu
165 170 175
Ser

<210> 7166
<211> 282
<212> PRT
<213> Enterobacter cloacae

<400> 7166
Pro Glu Ser Pro Glu Arg Met Arg Leu Arg Arg Lys Leu Trp Gly Ile
1 5 10 15
Gly Gly Thr Met Ser Arg Asn Thr Glu Ala Thr Ser Asp Val Asn Thr
20 25 30
Trp Ser Gly Gly His Leu Asn Tyr Lys Glu Gly Phe Phe Thr Gln Leu
35 40 45
Gln Thr Asp Glu Leu Ala Lys Gly Ile Asn Glu Glu Val Val Arg Ala
50 55 60
Ile Ser Ala Lys Arg Asn Glu Pro Glu Trp Met Leu Glu Phe Arg Leu
65 70 75 80
Ser Ala Phe Arg Ala Trp Leu Glu Met Glu Glu Pro His Trp Leu Lys
85 90 95
Ala His Tyr Asp Lys Leu Asn Tyr Gln Asp Tyr Ser Tyr Tyr Ser Ala
100 105 110
Pro Ser Cys Gly Ser Cys Asp Asp Thr Cys Ala Ser Gln Pro Gly Ala
115 120 125
Val Gln Gln Thr Gly Ala Glu Asn Ser Phe Leu Ser Lys Glu Val Glu
130 135 140
Glu Ala Phe Asn Gln Leu Gly Val Pro Val Arg Glu Gly Lys Glu Val
145 150 155 160
Ala Val Asp Ala Ile Phe Asp Ser Val Ser Val Ala Thr Thr Tyr Arg

				165					170					175			
Glu	Lys	Leu	Ala	Glu	Gln	Gly	Ile	Ile	Phe	Cys	Ser	Phe	Gly	Glu	Ala		
			180					185					190				
Ile	His	Asp	His	Pro	Glu	Leu	Val	Lys	Lys	Tyr	Ile	Gly	Thr	Val	Val		
		195					200					205					
Pro	Ser	Asn	Asp	Asn	Phe	Phe	Ala	Ala	Leu	Asn	Ala	Ala	Val	Ala	Ser		
		210				215					220						
Asp	Gly	Thr	Phe	Ile	Tyr	Val	Pro	Lys	Gly	Val	Arg	Cys	Pro	Met	Glu		
225					230					235					240		
Leu	Ser	Thr	Tyr	Phe	Arg	Ile	Asn	Ala	Glu	Lys	Thr	Gly	Gln	Phe	Glu		
				245					250					255			
Arg	His	Ile	Leu	Val	Ala	Asp	Glu	Ser	Ser	Tyr	Val	Ser	Tyr	Ile	Glu		
			260					265					270				
Gly	Cys	Ser	Ala	Pro	Val	Arg	Asp	Ser									
		275					280										

<210> 7167

<211> 234

<212> PRT

<213> Enterobacter cloacae

<400> 7167

Gln	Leu	Gln	Pro	Gly	Val	Val	Glu	Val	Ile	Ile	His	Lys	Asp	Ala	Glu		
1				5				10					15				
Val	Lys	Tyr	Phe	Thr	Val	Gln	Asn	Cys	Ser	Pro	Gly	Asp	Val	Asn	Thr		
			20				25					30					
Gly	Gly	Ile	Leu	Asn	Phe	Val	Thr	Lys	Arg	Ala	Leu	Cys	Glu	Gly	Glu		
		35				40					45						
Asn	Ser	Lys	Met	Ser	Trp	Thr	Gln	Ser	Glu	Thr	Gly	Ser	Ala	Ile	Thr		
50					55					60							
Trp	Lys	Tyr	Pro	Ser	Cys	Ile	Leu	Arg	Gly	Asp	Asn	Ser	Ile	Gly	Glu		
65					70				75						80		
Phe	Tyr	Ser	Val	Ala	Leu	Thr	Ser	Gly	His	Gln	Gln	Ala	Asp	Thr	Gly		
				85				90					95				
Thr	Lys	Met	Ile	His	Ile	Gly	Lys	Asn	Thr	Lys	Ser	Thr	Ile	Ile	Ser		
		100					105					110					
Lys	Gly	Ile	Ser	Ala	Gly	His	Ser	Gln	Asn	Ser	Tyr	Arg	Gly	Leu	Val		
		115					120					125					
Lys	Ile	Met	Pro	Thr	Ala	Thr	Asn	Ala	Arg	Asn	Phe	Thr	Gln	Cys	Asp		
		130				135					140						
Ser	Met	Leu	Ile	Gly	Ala	Asp	Cys	Gly	Ala	His	Thr	Phe	Pro	Tyr	Val		
145					150				155						160		
Glu	Cys	Arg	Asn	Asn	Ser	Ala	Gln	Leu	Glu	His	Glu	Ala	Thr	Thr	Ser		
				165				170						175			
Arg	Ile	Gly	Glu	Asp	Gln	Leu	Phe	Tyr	Cys	Leu	Gln	Arg	Gly	Ile	Ser		
		180					185					190					
Glu	Glu	Asp	Ala	Ile	Ser	Met	Ile	Val	Asn	Gly	Phe	Cys	Lys	Asp	Val		
		195				200					205						
Phe	Ser	Glu	Leu	Pro	Leu	Glu	Phe	Ala	Val	Glu	Ala	Gln	Lys	Leu	Leu		
		210				215					220						
Ala	Ile	Ser	Leu	Glu	His	Ser	Val	Gly									
225					230												

<210> 7168

<211> 252

<212> PRT

<213> Enterobacter cloacae

<400> 7168

Gly	Lys	His	Met	Leu	Ser	Ile	Lys	Asp	Leu	Gln	Val	Ser	Val	Glu	Glu		
1				5					10					15			

Lys Glu Ile Leu Arg Gly Leu Asn Phe Asp Val Lys Pro Gly Glu Val
 20 25 30
 His Ala Ile Met Gly Pro Asn Gly Ser Gly Lys Ser Thr Leu Ser Ala
 35 40 45
 Thr Leu Ala Gly Arg Glu Asp Tyr Glu Val Thr Ser Gly Ser Val Glu
 50 55 60
 Phe Asn Gly Lys Asp Leu Leu Glu Met Ser Pro Glu Glu Arg Ala Gly
 65 70 75 80
 Glu Gly Ile Phe Met Ala Phe Gln Tyr Pro Val Glu Ile Pro Gly Val
 85 90 95
 Ser Asn Gln Phe Phe Leu Gln Thr Ala Leu Asn Ala Val Arg Lys Tyr
 100 105 110
 Arg Gly Leu Glu Ala Leu Asp Arg Phe Asp Phe Gln Asp Leu Met Glu
 115 120 125
 Glu Lys Ile Lys Leu Leu Lys Met Pro Glu Asp Leu Leu Thr Arg Ser
 130 135 140
 Val Asn Val Gly Phe Ser Gly Gly Glu Lys Lys Arg Asn Asp Ile Leu
 145 150 155 160
 Gln Met Ala Val Leu Glu Pro Ala Leu Cys Ile Leu Asp Glu Thr Asp
 165 170 175
 Ser Gly Leu Asp Ile Asp Ala Leu Lys Ile Val Ala Asp Gly Val Asn
 180 185 190
 Ser Leu Arg Asp Gly Asn Arg Ser Phe Ile Ile Val Thr His Tyr Gln
 195 200 205
 Arg Ile Leu Asp Tyr Ile Lys Pro Asp Tyr Val His Val Leu Tyr Gln
 210 215 220
 Gly Arg Ile Val Lys Ser Gly Asp Phe Thr Leu Val Lys Gln Leu Glu
 225 230 235 240
 Glu Gln Gly Tyr Gly Trp Leu Thr Glu Gln Gln
 245 250

<210> 7169

<211> 423

<212> PRT

<213> Enterobacter cloacae

<400> 7169

Thr Ala Gly Ala Gly Pro Tyr Arg Ser Ala Thr Ala Trp Arg Arg Ser
 1 5 10 15
 Met Thr Phe Pro Val Glu Lys Val Arg Ala Asp Phe Pro Val Leu Thr
 20 25 30
 Arg Glu Val Asn Gly Leu Pro Leu Ala Tyr Leu Asp Ser Ala Ala Ser
 35 40 45
 Ala Gln Lys Pro Asn Gln Val Val Asp Ala Glu Ala Glu Phe Tyr Arg
 50 55 60
 His Gly Tyr Ala Ala Val His Arg Gly Ile His Thr Leu Ser Ala Glu
 65 70 75 80
 Ala Thr Gln Arg Met Glu Asn Val Arg Thr Gln Val Ala Ala Phe Leu
 85 90 95
 Asn Ala Arg Ser Pro Glu Glu Leu Val Phe Val Arg Gly Thr Thr Glu
 100 105 110
 Gly Ile Asn Leu Val Ala Asn Ser Trp Gly Asn Ala Gln Val His Ala
 115 120 125
 Gly Asp Asn Ile Ile Ile Thr Gln Met Glu His His Ala Asn Ile Val
 130 135 140
 Pro Trp Gln Met Leu Cys Glu Arg Val Gly Ala Gln Leu Arg Val Ile
 145 150 155 160
 Pro Leu Asn Glu Asp Gly Thr Leu Gln Leu Glu Lys Leu Asp Ala Leu
 165 170 175
 Leu Asp Asp Arg Thr Arg Leu Val Ala Val Thr His Val Ser Asn Val
 180 185 190

Leu Gly Thr Glu Asn Pro Val Ala Leu Ile Val Asp Lys Ala His Gln
 195 200 205
 Ala Gly Ala Lys Val Leu Ile Asp Gly Ala Gln Ala Val Met His His
 210 215 220
 Ala Val Asp Val Gln Ala Leu Asp Cys Asp Phe Tyr Val Phe Ser Gly
 225 230 235 240
 His Lys Leu Tyr Gly Pro Thr Gly Ile Gly Val Leu Tyr Val Lys Glu
 245 250 255
 Asp Ile Leu Gln Ala Met Pro Pro Trp Glu Gly Gly Gly Ser Met Ile
 260 265 270
 Ala Thr Val Ser Leu Thr Glu Gly Thr Thr Tyr Ala Arg Ala Pro Trp
 275 280 285
 Arg Phe Glu Ala Gly Thr Pro Asn Thr Gly Gly Ile Ile Gly Leu Gly
 290 295 300
 Ala Ala Ile Ser Tyr Val Ser Glu Thr Gly Leu Ala Ala Ile Gln Glu
 305 310 315 320
 Tyr Glu Gln Leu Leu Met His Tyr Ala Leu Gln Glu Leu Ala Ser Val
 325 330 335
 Pro Glu Leu Thr Leu Tyr Gly Pro Ala Asp Arg Leu Gly Val Ile Ala
 340 345 350
 Phe Asn Leu Gly Lys His His Ala Tyr Asp Val Gly Ser Phe Leu Asp
 355 360 365
 Asn Tyr Gly Val Ala Val Arg Thr Gly His His Cys Ala Met Pro Leu
 370 375 380
 Met Ala Tyr Tyr Glu Val Pro Ala Met Cys Arg Ala Ser Leu Val Met
 385 390 395 400
 Tyr Asn Thr Thr Glu Glu Val Asp Arg Leu Val Ala Gly Leu Lys Arg
 405 410 415
 Ile His Gln Leu Leu Gly
 420

<210> 7170

<211> 203

<212> PRT

<213> Enterobacter cloacae

<400> 7170

Ile Arg Asn Leu Ser Met Lys Arg Ala Ser Leu Ile Thr Leu Leu Leu
 1 5 10 15
 Leu Gly Ser Leu Ser Ala Val Asn Ser Ala Arg Ala Val Asp Tyr Pro
 20 25 30
 Leu Pro Pro Ala Gly Ser Arg Leu Ile Gly Gln Asn Gln Thr Tyr Thr
 35 40 45
 Ile Gln Glu Gly Asp Asn Lys Leu Gln Ser Ile Ala Arg Arg Phe Asn
 50 55 60
 Thr Ala Ala Gln Leu Ile Leu Glu Thr Asn Asn Thr Ile Ala Pro Val
 65 70 75 80
 Asn Pro Ala Pro Gly Thr Val Ile Thr Ile Pro Ser Gln Met Leu Leu
 85 90 95
 Pro Asp Thr Glu Arg Glu Gly Ile Val Val Asn Leu Ala Glu Leu Arg
 100 105 110
 Leu Tyr Phe Tyr Pro Pro Gly Glu Asn Ile Val Gln Val Tyr Pro Leu
 115 120 125
 Gly Ile Gly Gln Leu Gly Leu Glu Thr Pro Val Ser Thr Thr Arg Val
 130 135 140
 Ser Gln Lys Ile Pro Asn His Thr Trp Thr Pro Thr Ala Gly Ile Arg
 145 150 155 160
 Ala Arg Ser Leu Ala Gln Gly Ile Lys Leu Pro His Val Val Pro Ala
 165 170 175
 Gly Pro Asn Asn Pro Leu Gly Arg Phe Ala Leu Arg Leu Gly Ile Gly
 180 185 190

Asn Gly Glu Tyr Ser Ala Asp Gly Pro Lys
195 200

<210> 7171

<211> 165

<212> PRT

<213> Enterobacter cloacae

<400> 7171

Glu Glu Gly Ser Met Ala Asn Asp Trp Leu Glu Leu Arg Gln His Ala
1 5 10 15
Glu Thr Gly Ile Glu Thr Ile Lys Ala His Phe Glu Gly His Ala Phe
20 25 30
Asp Pro His Trp His Asp Ser Tyr Leu Val Gly Ile Thr Leu Ser Gly
35 40 45
Thr Gln Gln Phe His Cys Arg Arg Glu Arg His Arg Ser Gln Pro Gly
50 55 60
Asp Ala Phe Leu Leu Glu Pro Gly Glu Ile His Asp Gly Asp Ala Pro
65 70 75 80
Val Glu Gly Gly Phe Thr Tyr Leu Thr Phe Tyr Leu Asp Glu His Trp
85 90 95
Leu Thr His Thr Leu Gln Gly Leu Tyr Asp Ser Thr Pro Gly Ser Tyr
100 105 110
Thr Leu His Phe Ala Gln Thr Leu Thr Arg Glu Pro Gln Leu Val Arg
115 120 125
Ala Ile Gly Asp Thr Phe Ala Ser Leu His Asn Asp Glu Met Lys Ile
130 135 140
Val Gln Gln Ser Thr Met Asp Asn Leu Leu Ser Gln Ile Thr Thr His
145 150 155 160
Cys His Trp Arg
165

<210> 7172

<211> 330

<212> PRT

<213> Enterobacter cloacae

<220>

<221> UNSURE

<222> (31)

<220>

<221> UNSURE

<222> (42)

<400> 7172

Lys Leu Thr Ser Gln Leu Gln Ser Ser Ala Val Ala His Arg Ala Arg
1 5 10 15
Asp Tyr Leu Tyr Ala His Ile Gly Glu Asn Val Gly Leu Ser Xaa Leu
20 25 30
Ala Arg Glu Thr Gly Thr Asp Arg Phe Xaa Leu Thr Arg Cys Phe Lys
35 40 45
Arg Glu Phe Thr Trp Ala Arg Thr Pro Gly Leu Ser Ser Cys Asp Trp
50 55 60
Gln Arg Pro Asp Arg Cys Trp Arg Val Gly Asn Cys Leu Leu Met Leu
65 70 75 80
Arg Arg Gln Trp Val Leu Pro Ile Lys Ala Ile Leu Val Ala Gly Ser
85 90 95
Ser Val His Thr Val Phe Leu Arg His Thr Thr Ala Gly Cys Ala Gln
100 105 110
Thr Phe Gln Thr Phe Pro Glu Asn Asn Gly Thr Phe Val Ala Leu Ile


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      115              120              125
Lys Lys Glu Ser Pro Val Asn Leu Leu Pro Phe Leu Leu Phe Ala Phe
 130              135              140
Val Ala Ser Ile Thr Pro Gly Pro Thr Asn Ile Leu Val Leu Ala Asn
145              150              155              160
Ser Gln His Phe Gly Val Lys Asn Thr Val Pro Ala Ile Leu Gly Gly
      165              170              175
Cys Ile Ala Ala Ser Ala Ile Val Leu Val Ser Gly Ala Gly Ala Gly
      180              185              190
Glu Val Leu Arg Gln Tyr Pro Leu Ile Arg Gln Val Met Ser Trp Ala
 195              200              205
Gly Val Leu Trp Leu Ser Trp Met Ser Trp Gln Leu Phe Ser Ala Pro
 210              215              220
Ala Ala Asn Leu Ser Ser Ser Ser His Val Arg Phe Thr Ala Arg Ala
225              230              235              240
Ala Ala Leu Leu Gln Val Val Asn Pro Lys Thr Trp Met Met Ala Leu
      245              250              255
Ala Val Val Ser Leu Phe Ala Pro Ala Ser Asp His Ala Leu Arg Asp
 260              265              270
Ile Thr Leu Met Ala Leu Trp Phe Leu Ala Ile Ser Val Val Cys Leu
 275              280              285
Leu Cys Trp Ala Trp Leu Gly Lys Ala Val Asn Arg Ile Phe Arg Thr
 290              295              300
Thr Val Ala Met Val Arg Phe Gln Arg Ala Met Ala Leu Cys Leu Phe
305              310              315              320
Ile Ser Ala Trp Met Gly Met Leu Ala
      325              330

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<210> 7173

<211> 270

<212> PRT

<213> Enterobacter cloacae

<400> 7173

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Gly Ser Phe Asn Gln Val Phe Arg Arg His Asn Arg Gln Val Gly His
1      5      10      15
Phe Ser Gln Leu Leu Tyr Arg Gln Leu Ile Ala Ile Trp Arg Val
      20      25      30
Gln Ala Cys Thr Asp Gly Gly Cys Ala Gln Val His Phe Gln Gln Gln
      35      40      45
Phe Gly Arg Thr Gln Gln Val Phe Arg Leu Phe Val Gln Gln His Val
      50      55      60
Lys Arg Val Glu Phe Leu Ser Glu Gly His Trp His Arg Val Leu Gln
65      70      75      80
Leu Gly Thr Ala His Phe Gln Asn Val Leu Glu Leu Asn Gly Phe Thr
      85      90      95
Leu Glu Ala Ile Ala Gln Leu Ile Asn Arg Val Asp Gln Phe Asn Asp
      100      105      110
Arg Gly Ile His Arg Asp Ala Glu Ala Gly Trp Val Gly Val Val Gly
      115      120      125
Gly Leu Thr Phe Val Asn Val Val Val Arg Val Gln Val Leu Val Phe
      130      135      140
Thr Phe Leu Met Thr His Gln Leu Gln Ala Asp Val Cys Gln His Phe
145      150      155      160
Val Gly Val His Val Asp Arg Gly Ala Arg Ala Ala Leu Ile Asp Val
      165      170      175
Asp Arg Glu Leu Ile His Ala Phe Ala Val Val Gln His Leu Ile Ala
      180      185      190
Arg Gly Asp Asn Arg Ile Cys Ser Ala Phe Arg Asn Gly Leu Gln Leu
      195      200      205
Phe Val Cys Gln Ser Arg Gly Phe Phe Tyr His His His Ala Thr His

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210 215 220
 Lys Phe Arg Asp Val Ala Asp Phe Ala Val Ala Asp Val Glu Val Phe
 225 230 235 240
 Asn Arg Ser Gln Ser Val Asn Thr Ile Val Gly Ile Arg Trp Asn Phe
 245 250 255
 Pro Gly Thr Gln Gln Ile Phe Phe Asp Thr Asn Val Val
 260 265 270

<210> 7174

<211> 179

<212> PRT

<213> Enterobacter cloacae

<400> 7174

Lys Arg Ser Gly Ala Lys Thr Arg Tyr Pro Lys Gly Tyr Tyr Gln Asn
 1 5 10 15
 Ser Phe Lys Met Ser Glu Glu Cys Gln Arg Asn Leu Ala Arg Arg Asn
 20 25 30
 Ala Gln His Phe Ser Phe Gly His Leu Phe Ser Ile Arg Phe Thr Arg
 35 40 45
 Gly Gln Leu Leu Ser Ser Leu Leu Lys Thr Arg Asn Asn Met Arg Ile
 50 55 60
 Lys Val Cys Ala Gly Ile Val Gly Ala Ala Leu Leu Leu Ala Gly Cys
 65 70 75 80
 Ser Thr Ser Asn Glu Leu Thr Ala Ala Gly Gln Ser Val Arg Phe Val
 85 90 95
 Glu Asp Lys Pro Gly Ser Glu Cys Gln Leu Leu Gly Thr Ala Thr Gly
 100 105 110
 Glu Gln Ser Asn Trp Met Ser Gly Gln His Gly Glu Glu Gly Gly Ser
 115 120 125
 Met Arg Gly Ala Ala Asn Ala Leu Arg Asn Gln Ala Ala Ala Met Gly
 130 135 140
 Gly Asn Val Ile Tyr Gly Val Ser Ser Pro Thr Gln Gly Met Leu Ser
 145 150 155 160
 Ser Phe Val Pro Thr Ala Ser Gln Met Asn Gly Gln Val Tyr Lys Cys
 165 170 175
 Pro Asn

<210> 7175

<211> 281

<212> PRT

<213> Enterobacter cloacae

<400> 7175

Glu Val Ser Val Cys Phe Asn Asn Gly Ser Ser Gly Leu Pro Phe Ser
 1 5 10 15
 Ile Arg Ala Thr Asn Ala Arg Gly Thr Arg Arg Ala Lys Arg Arg Phe
 20 25 30
 Ala Ser Arg Pro Ala Arg Asn Ala Ser Cys Cys Ser Arg Ser Lys Arg
 35 40 45
 Arg Ser Asn Ser Ser Gly Leu Val Ile Thr Ser Ala Ser Cys Asp Asn
 50 55 60
 Gln Ser Ser Leu Asp Gly Val Phe Arg Val Thr Ile Cys Ala Ile Leu
 65 70 75 80
 Trp Leu Ser Tyr Gln Leu Thr Asn Leu Glu Gly Leu Met Ala Thr Tyr
 85 90 95
 Tyr Ser Asn Asp Phe Arg Ala Gly Leu Lys Ile Met Met Asp Gly Glu
 100 105 110
 Pro Tyr Ala Val Glu Ala Ser Glu Phe Val Lys Pro Gly Lys Gly Gln
 115 120 125

Ala Phe Ala Arg Val Lys Leu Arg Arg Leu Leu Thr Gly Thr Arg Val
 130 135 140
 Glu Lys Thr Phe Lys Ser Thr Asp Ser Ala Glu Gly Ala Asp Val Val
 145 150 155 160
 Asp Met Asn Leu Thr Tyr Leu Tyr Asn Asp Gly Glu Phe Trp His Phe
 165 170 175
 Met Asn Asn Glu Thr Phe Glu Gln Leu Ser Ala Asp Ala Lys Ala Ile
 180 185 190
 Gly Asp Asn Ala Lys Trp Leu Leu Asp Gln Ala Glu Cys Ile Val Thr
 195 200 205
 Leu Trp Asn Gly Gln Pro Ile Ala Val Thr Pro Pro Asn Phe Val Glu
 210 215 220
 Leu Glu Ile Val Glu Thr Asp Pro Gly Leu Lys Gly Asp Thr Ala Gly
 225 230 235 240
 Thr Gly Gly Lys Pro Ala Thr Leu Ser Thr Gly Ala Val Val Lys Val
 245 250 255
 Pro Leu Phe Val Gln Ile Gly Glu Val Ile Lys Val Asp Thr Arg Ser
 260 265 270
 Gly Glu Tyr Val Ser Arg Val Lys
 275 280

<210> 7176

<211> 407

<212> PRT

<213> Enterobacter cloacae

<400> 7176

Ala Gly Val Ile His Leu Asn Cys Gly Gln Gln Gly Trp Val Gly Trp
 1 5 10 15
 Gln His Glu Gln Gly Gly Asn Arg Cys Lys Arg Gly Asn Arg Arg Gln
 20 25 30
 Arg Arg His Ala Gln His Gln Cys Arg Arg His Gln Arg Phe Gly Gly
 35 40 45
 Arg Ser Leu Gly Val Gln Gln Arg Arg Gly Lys Glu Gln His Tyr Cys
 50 55 60
 Gln Gln Pro Arg Ile Val Val Gln Gln Val Ala Cys Asn Gly Leu Asp
 65 70 75 80
 Ile Ala Asp Val Arg Phe His Lys Gly Ile Thr Glu Pro Arg His Ala
 85 90 95
 Gln His Ala His Ala Gly Ala His Thr Gly Phe Glu Gly Ala Gly Val
 100 105 110
 Gln His Phe Ala Gly Val Asp Phe Thr Gly Asp Ala Asp Gln Arg Arg
 115 120 125
 Asp Gly Gln His Lys His His Asn Gly Phe Val Thr Arg Gln Asn Arg
 130 135 140
 Val Leu Asp Gln Thr Tyr Arg Val Ala Asp Gly Gly Arg Val Glu His
 145 150 155 160
 His Gly Asp Asp Thr Asn Gln Lys Gln Gln His Gly Ala Phe Cys Met
 165 170 175
 Arg Leu Gln Leu Glu Asp Leu Ala Thr Ala Gln Ala His Phe Thr Phe
 180 185 190
 Cys Gln Thr Leu Leu Val Asn Arg Ile Val Phe Gln Leu Gly Thr Glu
 195 200 205
 Glu Val Thr Gln His Gly Ser Asp His Tyr Arg Asn Gln Arg Asp Arg
 210 215 220
 Asn Thr Asp Cys Gln Gln Arg Gln Val Thr Tyr Ala His Trp Leu Lys
 225 230 235 240
 Asp Ala Arg Glu Glu Asp His Arg Arg Gly Asn Arg Arg Gly Gly Asn
 245 250 255
 Arg Asn Leu Gly Gly Asp His Gly Asn Arg Lys Arg Ala Arg Arg Ala
 260 265 270

Asn Thr Leu Leu Phe Arg His Phe Gly Asp Asp Arg Gln Arg Gly Glu
 275 280 285
 Gly Ser Met Ala Ser Thr Gly Glu Asn Gly His Lys Pro Gly His Gln
 290 295 300
 Arg Gly Lys Glu Gly Asp Val Phe Arg Met Ala Thr Gln His Thr Leu
 305 310 315 320
 Arg Gln Ala His Gln Val Val His Thr Ala Ser Asp Leu His Gly Arg
 325 330 335
 Asp Ser Ser Asn Asn Arg His Asp Asp Phe Asp Asn Val Lys Arg Asp
 340 345 350
 Cys Ala Gly Phe Asn Leu Lys Asp Gln Gly Lys Tyr Lys His Ser Glu
 355 360 365
 Thr Ala Ser Lys Thr Asp Ala Asp Ser Pro Glu Ser Cys Ala Gln Ile
 370 375 380
 Asn Arg Gln Gln Asp Asp Asp Glu Phe Cys Ser Lys His Lys Asp Leu
 385 390 395 400
 Pro Cys Ser Leu Thr Ser
 405

<210> 7177
 <211> 185
 <212> PRT
 <213> Enterobacter cloacae

<400> 7177

Asn Leu Ala Asn Arg Arg His Leu Leu Ser Thr Arg Phe Ala Asn Thr
 1 5 10 15
 Phe Ser Gln Gly Gln Lys Ala Pro Ala Ile Gln Glu Met Pro Val Arg
 20 25 30
 Trp Ile Pro Phe Ile Ala Phe Phe Leu Tyr Val Tyr Ile Glu Ile Ser
 35 40 45
 Ile Phe Ile Gln Val Ala His Val Leu Gly Val Leu Leu Thr Leu Ile
 50 55 60
 Leu Val Ile Phe Thr Ser Val Ile Gly Met Ser Leu Val Arg Asn Gln
 65 70 75 80
 Gly Phe Lys Asn Phe Leu Leu Met Gln Gln Lys Met Ala Ala Gly Glu
 85 90 95
 Ser Pro Ala Ala Glu Met Ile Lys Ser Val Ser Leu Ile Ile Ala Gly
 100 105 110
 Leu Leu Leu Ile Leu Pro Gly Phe Phe Thr Asp Phe Leu Gly Leu Leu
 115 120 125
 Leu Leu Leu Pro Pro Val Gln Lys His Leu Thr Met Lys Leu Leu Pro
 130 135 140
 His Leu Arg Phe Ser Arg Met Pro Gly Gly Gly Phe Ser Thr Gly Pro
 145 150 155 160
 Gly Asp Thr Phe Glu Gly Glu Tyr Gln Arg Lys Asp Glu Gln Arg Asp
 165 170 175
 Arg Leu Asp His Lys Asp Asp Arg
 180 185

<210> 7178
 <211> 130
 <212> PRT
 <213> Enterobacter cloacae

<400> 7178

Lys Ala Ile Pro Ile Ser Gln Gly Thr Ser Arg Lys Thr Ala Cys Gly
 1 5 10 15
 Pro Ala Ser Ser Ile Thr Asp Asn Asp Phe Leu Lys Gly Glu Leu Ser
 20 25 30
 Met Ser Ile Arg Pro Leu His Asp Arg Val Ile Val Lys Arg Lys Glu

```

      35              40              45
Val Glu Thr Lys Ser Ala Gly Ile Val Leu Thr Gly Ser Ala Ala
  50              55              60
Ala Lys Ser Thr Arg Gly Glu Ile Ile Ala Val Gly Lys Gly Arg Ile
  65              70              75              80
Leu Glu Asn Gly Thr Val Gln Pro Leu Asp Val Lys Val Gly Asp Ile
      85              90              95
Val Ile Phe Asn Asp Gly Tyr Gly Val Lys Ser Glu Lys Ile Asp Asn
      100              105              110
Glu Glu Val Leu Ile Met Ser Glu Ser Asp Ile Leu Ala Ile Val Glu
      115              120              125
Ala
      130

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<210> 7179
 <211> 73
 <212> PRT
 <213> Enterobacter cloacae

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<400> 7179
Thr Arg Ile His Leu Gly Thr His Ala Trp Leu Ile Gln Leu Arg Leu
  1              5              10              15
Ala Lys Ala Arg Gln Met Leu Ala Cys Gly Glu Leu Pro Val Asp Val
      20              25              30
Ala Thr Ala Val Gly Phe Ala Asp Gln Ser His Leu Gly Arg Trp Phe
      35              40              45
Gln Arg Ala Tyr Arg Ile Ser Pro Ala His Tyr Arg Arg Leu Cys Thr
      50              55              60
Asn Leu Pro Asp Val Ser Arg Lys
  65              70

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<210> 7180
 <211> 553
 <212> PRT
 <213> Enterobacter cloacae

<220>
 <221> UNSURE
 <222> (381)

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<400> 7180
Gly Asn Lys Asn Met Ala Ala Lys Asp Val Lys Phe Gly Asn Asp Ala
  1              5              10              15
Arg Val Lys Met Leu Arg Gly Val Asn Val Leu Ala Asp Ala Val Lys
      20              25              30
Val Thr Leu Gly Pro Lys Gly Arg Asn Val Val Leu Asp Lys Ser Phe
      35              40              45
Gly Ala Pro Thr Ile Thr Lys Asp Gly Val Ser Val Ala Arg Glu Ile
      50              55              60
Glu Leu Glu Asp Lys Phe Glu Asn Met Gly Ala Gln Met Val Lys Glu
  65              70              75              80
Val Ala Ser Lys Ala Asn Asp Ala Ala Gly Asp Gly Thr Thr Thr Ala
      85              90              95
Thr Val Leu Ala Gln Ala Ile Ile Thr Glu Gly Leu Lys Ala Val Ala
      100              105              110
Ala Gly Met Asn Pro Met Asp Leu Lys Arg Gly Ile Asp Lys Ala Val
      115              120              125
Ala Ser Ala Val Glu Glu Leu Lys Ala Leu Ser Val Pro Cys Ser Asp
      130              135              140
Ser Lys Ala Ile Ala Gln Val Gly Thr Ile Ser Ala Asn Ser Asp Glu
  145              150              155              160

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Thr Val Gly Lys Leu Ile Ala Glu Ala Met Asp Lys Val Gly Lys Glu
 165 170 175
 Gly Val Ile Thr Val Glu Asp Gly Thr Gly Leu Glu Asp Glu Leu Asp
 180 185 190
 Val Val Glu Gly Met Gln Phe Asp Arg Gly Tyr Leu Ser Pro Tyr Phe
 195 200 205
 Ile Asn Lys Pro Glu Thr Gly Ala Val Glu Leu Glu Ser Pro Phe Ile
 210 215 220
 Leu Leu Ala Asp Lys Lys Ile Ser Asn Ile Arg Glu Met Leu Pro Val
 225 230 235 240
 Leu Glu Ala Val Ala Lys Ala Gly Lys Pro Leu Val Ile Ile Ala Glu
 245 250 255
 Asp Val Glu Gly Glu Ala Leu Ala Thr Leu Val Val Asn Thr Met Arg
 260 265 270
 Gly Ile Val Lys Val Ala Ala Val Lys Ala Pro Gly Phe Gly Asp Arg
 275 280 285
 Arg Lys Ala Met Leu Gln Asp Ile Ala Thr Leu Thr Gly Gly Thr Val
 290 295 300
 Ile Ser Glu Glu Ile Gly Met Glu Leu Glu Lys Ala Thr Leu Glu Asp
 305 310 315 320
 Leu Gly Gln Ala Lys Arg Val Val Ile Asn Lys Asp Thr Thr Thr Ile
 325 330 335
 Ile Asp Gly Val Gly Glu Glu Ala Ala Ile Gln Gly Arg Val Gly Gln
 340 345 350
 Ile Arg Lys Gln Ile Glu Glu Ala Thr Ser Asp Tyr Asp Arg Glu Lys
 355 360 365
 Leu Gln Glu Arg Val Ala Lys Leu Ala Gly Gly Val Xaa Val Ile Lys
 370 375 380
 Val Gly Ala Ala Thr Glu Val Glu Met Lys Glu Lys Lys Ala Arg Val
 385 390 395 400
 Asp Asp Ala Leu His Ala Thr Arg Ala Ala Val Glu Glu Gly Val Val
 405 410 415
 Ala Gly Gly Gly Val Ala Leu Val Arg Val Ala Ala Lys Leu Ala Gly
 420 425 430
 Leu Thr Ala Gln Asn Glu Asp Gln Asn Val Gly Ile Lys Val Ala Leu
 435 440 445
 Arg Ala Met Glu Ala Pro Leu Arg Gln Ile Val Ser Asn Ala Gly Glu
 450 455 460
 Glu Pro Ser Val Val Ala Asn Lys Val Lys Ala Gly Glu Gly Asn Tyr
 465 470 475 480
 Gly Tyr Asn Ala Ala Thr Glu Glu Tyr Gly Asn Met Ile Asp Phe Gly
 485 490 495
 Ile Leu Asp Pro Thr Lys Val Thr Arg Ser Ala Leu Gln Tyr Ala Ala
 500 505 510
 Ser Val Ala Gly Leu Met Ile Thr Thr Glu Cys Met Val Thr Asp Leu
 515 520 525
 Pro Lys Gly Asp Ala Pro Asp Leu Gly Ala Ala Gly Gly Met Gly Gly
 530 535 540
 Met Gly Gly Met Gly Gly Met Met
 545 550

<210> 7181

<211> 111

<212> PRT

<213> Enterobacter cloacae

<400> 7181

Val Lys Glu Pro Asp Met Ser Trp Ile Val Leu Val Ile Ala Gly Leu
 1 5 10 15
 Leu Glu Val Val Trp Ala Ile Gly Leu Lys Tyr Thr His Gly Phe Thr
 20 25 30

Arg Leu Thr Pro Ser Val Ile Thr Ile Ala Ala Met Ile Val Ser Ile
 35 40 45
 Val Met Leu Ser Trp Ala Met Arg Ser Leu Pro Val Gly Thr Ala Tyr
 50 55 60
 Ala Val Trp Thr Gly Ile Gly Ala Val Gly Ala Ala Ile Thr Gly Ile
 65 70 75 80
 Leu Leu Leu Gly Glu Ser Ala Ser Leu Ala Arg Ile Ala Ser Leu Ala
 85 90 95
 Leu Ile Val Ala Gly Ile Ile Gly Leu Lys Leu Ser Thr His
 100 105 110

<210> 7182

<211> 416

<212> PRT

<213> Enterobacter cloacae

<400> 7182

Met Ser Gly Leu Arg Gln Glu Leu Gly Leu Ala Gln Gly Ile Gly Leu
 1 5 10 15
 Leu Ser Thr Ser Leu Leu Gly Thr Gly Val Phe Ala Val Pro Ala Leu
 20 25 30
 Ala Ala Leu Val Ala Gly Asn Asn Ser Leu Trp Ala Trp Pro Val Leu
 35 40 45
 Ile Val Leu Val Phe Pro Val Ala Ile Val Phe Ala Ile Leu Gly Arg
 50 55 60
 His Phe Pro Ser Ala Gly Gly Val Thr His Phe Val Gly Met Ala Phe
 65 70 75 80
 Gly Pro Arg Met Glu Arg Val Thr Gly Trp Leu Phe Leu Ser Val Ile
 85 90 95
 Pro Val Gly Leu Pro Ala Ala Leu His Ile Ala Thr Gly Phe Gly Gln
 100 105 110
 Ala Leu Phe Gly Trp His Asp Glu Gln Leu Leu Leu Ala Glu Ile Gly
 115 120 125
 Thr Leu Ala Ile Val Trp Trp Val Gly Ser Arg Gly Ala Ser Ser Ser
 130 135 140
 Ala Asn Leu Gln Thr Leu Val Ala Val Leu Ile Val Ala Leu Ile Val
 145 150 155 160
 Ala Ile Trp Phe Ala Gly Asp Ile Thr Val Ala Asp Ile Pro Phe Pro
 165 170 175
 Ala Ile Asn Asp Ile Asp His Ala Gln Leu Phe Ala Ala Leu Ser Val
 180 185 190
 Met Phe Trp Cys Phe Val Gly Leu Glu Ala Phe Ala His Leu Ala Ser
 195 200 205
 Glu Phe Lys Gln Pro Glu Arg Asp Phe Pro Arg Ala Leu Met Ile Gly
 210 215 220
 Leu Leu Leu Ala Gly Thr Val Tyr Trp Ala Cys Thr Val Leu Val Leu
 225 230 235 240
 His Phe Asn Ala Phe Ser Glu Glu Lys Ala Ala Ala Ser Leu Pro
 245 250 255
 Gly Ile Val Val Gln Leu Phe Gly Val Lys Ala Leu Trp Val Ala Cys
 260 265 270
 Val Ile Gly Tyr Leu Ala Cys Phe Ala Ser Leu Asn Ile Tyr Ile Gln
 275 280 285
 Asn Phe Ala Arg Leu Val Trp Ser Gln Ala Leu Tyr Lys Pro Asp Ser
 290 295 300
 Pro Leu Ser Arg Leu Ser Lys Arg Gln Leu Pro Val Asn Ala Leu Asn
 305 310 315 320
 Thr Val Leu Gly Cys Cys Val Val Asn Ser Leu Ala Ile Tyr Leu Leu
 325 330 335
 Asp Ile Asn Leu Asp Ala Leu Ile Val Tyr Ala Asn Gly Ile Phe Ile
 340 345 350

3200

Met Ile Tyr Leu Leu Cys Met Leu Ala Gly Cys Arg Leu Leu Lys Gly
 355 360 365
 Arg Phe Lys Ala Leu Ala Ala Val Gly Cys Val Leu Cys Leu Met Leu
 370 375 380
 Leu Ala Met Val Gly Trp Lys Ser Val Tyr Ala Ile Val Met Leu Ala
 385 390 395 400
 Gly Leu Trp Val Phe Leu Pro Lys Arg Gln Ala Pro Gln Ala Arg
 405 410 415

<210> 7183

<211> 506

<212> PRT

<213> Enterobacter cloacae

<400> 7183

Ser Ser Val Ile Lys Tyr Ser Lys Pro His Ile Tyr Cys Val Phe Ser
 1 5 10 15
 Thr Ile His Arg Gln Leu Glu Lys Lys Val His Met Leu Asn Asn Ile
 20 25 30
 Arg Ile Glu Glu Asp Leu Leu Gly Thr Arg Glu Val Pro Ala Asp Ala
 35 40 45
 Tyr Tyr Gly Val His Thr Leu Arg Ala Ile Glu Asn Phe Tyr Ile Ser
 50 55 60
 Asn Ser Lys Ile Ser Asp Ile Pro Glu Phe Val Arg Gly Met Val Met
 65 70 75 80
 Val Lys Lys Ala Ala Ala Leu Ala Asn Lys Glu Leu Gln Thr Ile Pro
 85 90 95
 Lys Ser Ala Ala Asn Ala Ile Ile Ala Ala Cys Asp Glu Val Leu Asn
 100 105 110
 Asn Gly Lys Cys Met Asp Gln Phe Pro Val Asp Val Tyr Gln Gly Gly
 115 120 125
 Ala Gly Thr Ser Val Asn Met Asn Thr Asn Glu Val Leu Ala Asn Ile
 130 135 140
 Gly Leu Glu Leu Met Gly His Gln Lys Gly Glu Tyr Gln Tyr Leu Asn
 145 150 155 160
 Pro Asn Asp His Val Asn Lys Cys Gln Ser Thr Asn Asp Ala Tyr Pro
 165 170 175
 Thr Gly Phe Arg Ile Ala Val Tyr Ala Ser Val Val Lys Leu Val Asp
 180 185 190
 Ala Ile Asn Gln Leu Gly Asp Gly Phe Gln Arg Lys Ala Val Glu Phe
 195 200 205
 Gln Asp Ile Leu Lys Met Gly Arg Thr Gln Leu Gln Asp Ala Val Pro
 210 215 220
 Met Thr Leu Gly Gln Glu Phe His Ala Phe Asn Val Leu Leu Asn Glu
 225 230 235 240
 Glu Thr Lys Asn Leu Leu Arg Thr Ser Glu Leu Leu Glu Val Asn
 245 250 255
 Leu Gly Ala Thr Ala Ile Gly Thr Arg Leu Asn Thr Pro Asp Gly Tyr
 260 265 270
 Gln Gln Leu Ala Val Gln Lys Leu Ala Glu Val Ser Asn Leu Pro Val
 275 280 285
 Val Pro Ala Glu Asp Leu Ile Glu Ala Thr Ser Asp Cys Gly Ala Tyr
 290 295 300
 Val Met Val His Ser Ala Leu Lys Arg Leu Ala Val Lys Leu Ser Lys
 305 310 315 320
 Ile Cys Asn Asp Leu Arg Leu Leu Ser Ser Gly Pro Arg Ala Gly Leu
 325 330 335
 Asn Glu Ile Asn Leu Pro Glu Leu Gln Ala Gly Ser Ser Ile Met Pro
 340 345 350
 Ala Lys Val Asn Pro Val Val Pro Glu Val Val Asn Gln Val Cys Phe
 355 360 365

Lys Val Ile Gly Asn Asp Thr Thr Val Thr Met Ala Ser Glu Ala Gly
 370 375 380
 Gln Leu Gln Leu Asn Val Met Glu Pro Val Ile Gly Gln Ala Met Phe
 385 390 395 400
 Glu Ser Ile His Ile Leu Thr Asn Ala Cys Tyr Asn Leu Leu Glu Lys
 405 410 415
 Cys Ile Asn Gly Ile Thr Ala Asn Lys Glu Val Cys Glu Gly Tyr Val
 420 425 430
 Tyr Asn Ser Ile Gly Ile Val Thr Tyr Leu Asn Pro Phe Ile Gly His
 435 440 445
 His Asn Gly Asp Ile Val Gly Lys Ile Cys Ala Glu Thr Gly Lys Ser
 450 455 460
 Val Arg Glu Val Val Leu Glu Arg Gly Leu Leu Thr Glu Ala Glu Leu
 465 470 475 480
 Asp Asp Ile Phe Ser Ala Gln Asn Leu Met His Pro Ala Tyr Lys Ala
 485 490 495
 Lys Arg Tyr Thr Asp Glu Ser Glu Gln
 500 505

<210> 7184

<211> 574

<212> PRT

<213> Enterobacter cloacae

<400> 7184

Arg Leu Ser Leu Met Ala Gln Arg Phe Ile Thr Leu Ile Leu Leu Leu
 1 5 10 15
 Cys Ser Thr Ser Val Phe Ala Gly Leu Phe Asp Ala Pro Gly Arg Ser
 20 25 30
 Asn Phe Ile Pro Ala Asp Gln Ala Phe Val Phe Asp Phe Gln Gln Asn
 35 40 45
 Gln His Asp Leu Ser Leu Thr Trp Gln Val Lys Glu Gly Tyr Tyr Leu
 50 55 60
 Tyr Arg Lys Gln Val Ser Ile Thr Pro Thr Lys Ala Asn Val Gly Ala
 65 70 75 80
 Leu Gln Met Pro Ala Gly Val Trp His Glu Asp Glu Phe Tyr Gly Lys
 85 90 95
 Ser Glu Ile Tyr Arg Gln Arg Leu Ser Val Pro Val Thr Val Asn His
 100 105 110
 Ala Asp Lys Gly Ala Thr Leu Thr Val Thr Tyr Gln Gly Cys Ala Asp
 115 120 125
 Ala Gly Phe Cys Tyr Pro Pro Glu Thr Lys Val Val Pro Leu Ser Glu
 130 135 140
 Val Lys Gly Ala Ala Ser Pro Leu Pro Ser Gly Glu Arg Ala Arg Met
 145 150 155 160
 Lys Gly Glu Gly Ala Gly Glu Ala Thr Ser Asp Leu Pro Phe Ser Ala
 165 170 175
 Leu Trp Ala Leu Leu Ile Gly Ile Gly Ile Ala Phe Thr Pro Cys Val
 180 185 190
 Leu Pro Met Tyr Pro Leu Ile Ser Gly Ile Val Leu Gly Gly Lys Gln
 195 200 205
 Arg Leu Ser Thr Ala Arg Ala Leu Leu Leu Ala Phe Ile Tyr Val Gln
 210 215 220
 Gly Met Ala Leu Thr Tyr Thr Ala Leu Gly Leu Val Val Ala Ala Ala
 225 230 235 240
 Gly Leu Gln Phe Gln Ala Ala Leu Gln His Pro Tyr Val Leu Ile Gly
 245 250 255
 Leu Ser Ala Val Phe Ile Leu Leu Ala Leu Ser Met Phe Gly Leu Phe
 260 265 270
 Thr Leu Gln Leu Pro Ser Ser Leu Gln Thr Arg Leu Thr Leu Met Ser
 275 280 285

Asn Arg Gln Gln Gly Gly Ser Ala Gly Gly Val Phe Ala Met Gly Ala
 290 295 300
 Ile Ala Gly Leu Ile Cys Ser Pro Cys Thr Thr Ala Pro Leu Ser Ala
 305 310 315 320
 Ile Leu Leu Tyr Ile Ala Gln Ser Gly Asn Leu Trp Leu Gly Gly Gly
 325 330 335
 Thr Leu Tyr Leu Tyr Ala Leu Gly Met Gly Leu Pro Leu Ile Leu Val
 340 345 350
 Thr Val Phe Gly Asn Arg Leu Leu Pro Lys Ser Gly Pro Trp Met Glu
 355 360 365
 Thr Val Lys Thr Ala Phe Gly Phe Val Ile Leu Ala Leu Pro Val Phe
 370 375 380
 Leu Leu Glu Arg Ile Ile Gly Asp Val Trp Gly Thr Arg Leu Trp Ala
 385 390 395 400
 Met Leu Gly Val Ala Phe Phe Ser Trp Ala Phe Ile Val Ser Leu Gly
 405 410 415
 Ala Lys Lys Pro Trp Met Arg Leu Leu Gln Ile Leu Leu Leu Ala Ala
 420 425 430
 Ala Leu Val Ser Val Arg Pro Leu Gln Asp Trp Ala Phe Gly Thr Pro
 435 440 445
 Ala Gly Gln Thr Gln Ala His Leu Asn Phe Ile Gln Ile Lys Asn Val
 450 455 460
 Asp Asp Leu Asn His Ala Leu Ala Gln Ala Lys Gly Lys Pro Val Met
 465 470 475 480
 Leu Asp Leu Tyr Ala Asp Trp Cys Val Ala Cys Lys Glu Phe Glu Lys
 485 490 495
 Tyr Thr Phe Ser Asp Pro Gln Val Gln His Ala Leu Ser Asp Thr Val
 500 505 510
 Leu Leu Gln Ala Asn Val Thr Ala Asn Ser Thr Gln Asp Lys Ala Leu
 515 520 525
 Leu Lys Gln Leu Lys Val Leu Gly Leu Pro Thr Ile Leu Phe Phe Asn
 530 535 540
 Glu Gln Gly Glu Glu Gln Pro Thr Gln Arg Val Thr Gly Phe Met Asp
 545 550 555 560
 Ala Thr Ala Phe Asn Ala His Leu Arg Asn Arg Gln Pro
 565 570

<210> 7185

<211> 347

<212> PRT

<213> Enterobacter cloacae

<400> 7185

Leu Ser His Lys Met Ala His Ile Val Thr Leu Asn Thr Pro Ser Arg
 1 5 10 15
 Glu Asp Trp Leu Ser Gln Leu Ala Asp Val Ile Thr Ser Pro Asp Glu
 20 25 30
 Leu Leu Arg Leu Leu Asp Leu Glu Gln His Glu Ala Leu Arg Ala Gly
 35 40 45
 Arg Glu Ala Lys Arg Leu Phe Ala Leu Arg Val Pro Arg Ala Phe Val
 50 55 60
 Ala Arg Met Glu Lys Gly Asn Pro Asp Asp Pro Leu Leu Lys Gln Thr
 65 70 75 80
 Leu Thr Ser Gln Asp Glu Phe Ile Thr Ala Pro Gly Tyr Ser Thr Asp
 85 90 95
 Pro Leu Gln Glu Gln Asn Ser Val Val Pro Gly Leu Leu His Lys Tyr
 100 105 110
 Arg Asn Arg Ala Leu Leu Leu Val Lys Gly Gly Cys Ala Val Asn Cys
 115 120 125
 Arg Tyr Cys Phe Arg Arg His Phe Pro Tyr Ala Glu Asn Gln Gly Asn
 130 135 140

Lys Arg Asn Trp Gln Val Ala Leu Asp Tyr Ile Thr Ala His Pro Glu
 145 150 155 160
 Leu Asp Glu Ile Ile Phe Ser Gly Gly Asp Pro Leu Met Ala Lys Asp
 165 170 175
 His Glu Leu Asp Trp Leu Leu Thr Gln Leu Glu Thr Ile Pro His Ile
 180 185 190
 Lys Arg Leu Arg Ile His Ser Arg Leu Pro Ile Val Ile Pro Ala Arg
 195 200 205
 Ile Thr Asp Ala Leu Val Thr Arg Leu Glu Gln Ser Arg Leu Gln Val
 210 215 220
 Leu Leu Val Asn His Ile Asn His Ala Asn Glu Ile Asp Ala Asp Phe
 225 230 235 240
 Arg Glu Ala Met Ala Arg Met Arg Lys Ala Gly Val Thr Leu Leu Asn
 245 250 255
 Gln Ser Val Leu Leu Arg Gly Val Asn Asp Ser Ala Arg Val Leu Ala
 260 265 270
 Asp Leu Ser Asn Ala Leu Phe Asp Ala Gly Val Met Pro Tyr Tyr Leu
 275 280 285
 His Val Leu Asp Arg Val Gln Gly Ala Ala His Phe Met Val Thr Asp
 290 295 300
 Glu Glu Ala Arg Lys Ile Met Arg Glu Leu Leu Thr Leu Val Ser Gly
 305 310 315 320
 Tyr Met Val Pro Lys Leu Ala Arg Glu Ile Gly Gly Glu Pro Ser Lys
 325 330 335
 Thr Pro Leu Asp Leu Gln Leu Arg Gln Gln
 340 345

<210> 7186

<211> 209

<212> PRT

<213> *Enterobacter cloacae*

<400> 7186

Arg His Tyr Tyr Gln Leu Phe Phe Phe Arg Arg Cys Thr Leu Tyr Leu
 1 5 10 15
 Tyr Tyr Arg Pro Gly Asn His Ala Ala Cys Arg His Ser Gly Val Gln
 20 25 30
 Ile Cys Trp Arg Glu Leu Ser Ala Thr Val Asp Arg Pro His Gly Ser
 35 40 45
 Ser Leu Arg Ser Gly Gly Lys Met Ile Ala Gln Ser Arg Lys Asn Ile
 50 55 60
 Met Asp Leu Phe Ile Asp Gly Ala Arg Arg Gly Phe Thr Ile Ala Thr
 65 70 75 80
 Thr Ser Leu Leu Pro Asn Val Val Met Ala Phe Val Ile Ile Gln Ala
 85 90 95
 Leu Lys Val Thr Gly Leu Leu Asp Ile Val Gly Arg Val Cys Glu Pro
 100 105 110
 Ile Met Ala Leu Trp Gly Leu Pro Gly Ala Ala Thr Val Leu Leu
 115 120 125
 Ala Ser Val Met Ser Met Gly Gly Gly Val Gly Val Cys Ala Ser Leu
 130 135 140
 Val Ala Ala Gly Thr Leu Asn Gly His Asp Ala Thr Ile Leu Leu Pro
 145 150 155 160
 Ala Ile Tyr Leu Met Gly Asn Pro Val Gln Asn Thr Gly Arg Cys Leu
 165 170 175
 Gly Thr Ala Gly Val Asn Pro Lys Tyr Tyr Pro His Ile Ile Ala Val
 180 185 190
 Cys Val Ile Asn Ala Leu Leu Ser Met Trp Val Met Gln Leu Leu Phe
 195 200 205

<210> 7187
 <211> 558
 <212> PRT
 <213> Enterobacter cloacae

<400> 7187

Val	Arg	Arg	Val	Ala	Phe	Arg	Gln	Val	Gly	His	His	Ala	Leu	Gly	Arg
1			5						10					15	
Asp	His	Gln	Ala	Ser	Tyr	Arg	Cys	Arg	Val	Leu	Gln	Ser	Arg	Thr	Gly
		20						25					30		
His	Phe	Ser	Trp	Ile	Gln	Asp	Thr	Glu	Val	Asp	His	Val	Ala	Val	Phe
		35					40					45			
Phe	Ser	Cys	Arg	Val	Val	Thr	Val	Val	Thr	Phe	Thr	Arg	Phe	His	Leu
	50					55					60				
Val	Arg	Asn	His	Arg	Arg	Leu	Phe	Thr	Gly	Val	Gly	His	Asp	Leu	Thr
65				70						75					80
Gln	Arg	Ser	Phe	His	Cys	Ala	Gln	Arg	Asn	Phe	Asp	Thr	His	Val	Leu
				85					90					95	
Val	Phe	Val	Leu	Ser	Ser	Gln	Ala	Ser	Gln	Phe	Ser	Gly	Tyr	Thr	His
			100					105						110	
Gln	Arg	Asp	Thr	Thr	Thr	Ser	Asn	His	Ala	Phe	Phe	Tyr	Arg	Ser	Thr
		115					120					125			
Gly	Arg	Val	Gln	Gly	Val	Val	Asn	Ala	Cys	Phe	Leu	Leu	Phe	His	Phe
	130					135					140				
Asn	Phe	Gly	Ser	Arg	Thr	Asp	Phe	Asp	Tyr	Arg	Tyr	Ala	Thr	Cys	Gln
145					150					155					160
Phe	Arg	Tyr	Ala	Leu	Glu	Phe	Phe	Thr	Val	Val	Ile	Gly	Ser	Cys	
				165					170					175	
Phe	Phe	Asp	Leu	Leu	Thr	Asp	Leu	Thr	Asn	Thr	Ala	Leu	Asn	Ser	Gly
			180					185					190		
Phe	Phe	Thr	His	Thr	Val	Asp	Asp	Gly	Gly	Gly	Val	Phe	Val	Asp	His
		195					200					205			
Asn	Ala	Phe	Arg	Leu	Ala	Gln	Val	Phe	Gln	Ser	Arg	Phe	Phe	Gln	Leu
	210					215					220				
His	Thr	Asp	Leu	Phe	Gly	Asp	His	Gly	Thr	Ala	Gly	Gln	Gly	Ser	Asp
225					230					235					240
Ile	Leu	Glu	His	Arg	Leu	Thr	Thr	Ile	Ala	Glu	Thr	Arg	Cys	Phe	Asn
				245					250					255	
Arg	Cys	His	Phe	His	Asp	Ala	Thr	His	Gly	Val	Asn	His	Gln	Gly	Arg
			260					265					270		
Gln	Arg	Phe	Ala	Phe	Asn	Val	Phe	Ser	Asn	Asp	Tyr	Gln	Arg	Leu	Ala
		275					280					285			
Cys	Phe	Arg	Asp	Ser	Phe	Gln	His	Trp	Gln	His	Phe	Ala	Asp	Val	Gly
	290					295					300				
Asp	Phe	Leu	Val	Ser	Gln	Gln	Asp	Glu	Arg	Ala	Phe	Gln	Leu	Asn	Ser
305					310					315					320
Ala	Ser	Phe	Trp	Leu	Val	Asp	Glu	Val	Trp	Gly	Gln	Val	Thr	Ala	Val
			325						330					335	
Glu	Leu	His	Thr	Phe	Asn	His	Val	Gln	Phe	Val	Phe	Gln	Thr	Ser	Thr
			340					345					350		
Val	Phe	Asn	Gly	Asp	His	Ala	Phe	Phe	Thr	Asp	Phe	Ile	His	Arg	Phe
		355					360					365			
Ser	Asp	Gln	Phe	Thr	Tyr	Gly	Phe	Val	Gly	Val	Ser	Gly	Asp	Ser	Thr
	370					375					380				
Asn	Leu	Ser	Asn	Gly	Phe	Arg	Val	Arg	Ala	Arg	Tyr	Gly	Gln	Arg	Phe
385					390					395					400
Gln	Phe	Phe	Asn	Ser	Gly	Ser	Asp	Gly	Phe	Val	Asp	Thr	Thr	Phe	Gln
			405						410					415	
Ile	His	Trp	Val	His	Ala	Arg	Ser	Asn	Gly	Phe	Gln	Ala	Phe	Gly	Asp
			420					425					430		

Asp Arg Leu Arg Gln Tyr Gly Arg Gly Gly Gly Thr Val Thr Gly Ser
 435 440 445
 Val Val Arg Phe Arg Gly Asn Phe Phe His His Leu Cys Ala His Val
 450 455 460
 Phe Glu Leu Val Phe Gln Leu Asp Phe Thr Cys Asn Arg Asn Thr Ile
 465 470 475 480
 Phe Gly Asp Gly Trp Arg Ala Glu Gly Phe Val Gln His Tyr Val Thr
 485 490 495
 Ala Phe Arg Ala Glu Ser Asp Phe His Cys Val Cys Gln Tyr Val Tyr
 500 505 510
 Ala Ala Glu His Phe Tyr Thr Ser Val Val Thr Glu Phe Tyr Val Phe
 515 520 525
 Ser Cys His Val Leu Ile Ser Ser Asn Ser Tyr Ser Phe Arg Ala Leu
 530 535 540
 Ile Thr Leu Gln Gln Leu Pro Glu Cys Arg Ser Arg Thr
 545 550 555

<210> 7188

<211> 112

<212> PRT

<213> Enterobacter cloacae

<400> 7188

Gly Gly Arg Leu Val Asn Thr Pro Asp Ala Val Val Val Leu Cys Thr
 1 5 10 15
 Ala Pro Asp Glu Ala Ser Ala Gln Asp Leu Ala Ala Lys Val Leu Ala
 20 25 30
 Glu Lys Leu Ala Ala Cys Val Thr Leu Leu Pro Gly Ala Thr Ser Leu
 35 40 45
 Tyr Tyr Trp Glu Gly Lys Leu Glu Gln Glu Tyr Glu Val Gln Met Leu
 50 55 60
 Leu Lys Thr Asn Leu Thr Asn Gln Gln Ala Leu Leu Asp Cys Leu Lys
 65 70 75 80
 Ser His His Pro Tyr Gln Thr Pro Glu Leu Leu Val Leu Pro Val Val
 85 90 95
 His Gly Asp Asn Asp Tyr Leu Ser Trp Leu Asn Ala Ser Leu Arg
 100 105 110

<210> 7189

<211> 227

<212> PRT

<213> Enterobacter cloacae

<400> 7189

Pro Gly Leu Trp Thr Arg Arg His Ser Thr Arg Ile Cys Ala Ile Ala
 1 5 10 15
 Asn Arg Lys Pro His Phe Arg Arg Asp Lys Pro Leu Gly Ile Ala Glu
 20 25 30
 Glu Ile Thr Val Gln Arg Glu Asp Val Leu Gly Gln Ala Leu Gln Leu
 35 40 45
 Leu Glu Ile Gln Gly Ile Ala Ser Thr Thr Leu Glu Met Val Ala Asp
 50 55 60
 Arg Ile Asp Tyr Pro Leu Asp Glu Leu Arg Arg Phe Trp Pro Asp Lys
 65 70 75 80
 Glu Ala Leu Leu Tyr Asp Ala Leu Arg Tyr Leu Ser Gln Gln Val Asp
 85 90 95
 Ile Trp Arg Arg Gln Leu Met Leu Asn Glu Glu Leu Thr Thr Glu Gln
 100 105 110
 Lys Leu Leu Ala Arg Tyr Thr Ala Leu Thr Glu Cys Val Thr Asn Asn
 115 120 125
 Arg Tyr Pro Gly Cys Leu Phe Ile Ala Ala Cys Thr Tyr Tyr Pro Asp

130 135 140
 Pro Gly His Pro Ile His Gln Leu Ala Asp Gln Gln Lys Arg Ala Ala
 145 150 155 160
 His Glu Phe Thr His Glu Leu Leu Thr Thr Leu Glu Val Asp Asp Pro
 165 170 175
 Ala Met Val Ala Lys Gln Met Glu Leu Val Leu Glu Gly Cys Leu Ser
 180 185 190
 Arg Met Leu Val Asn Arg Ser Gln Ala Asp Val Asp Thr Ala His Arg
 195 200 205
 Leu Ala Glu Asp Ile Leu Arg Phe Ala Gln Cys Arg Met Gly Gly Ala
 210 215 220
 Leu Thr
 225

<210> 7190

<211> 322

<212> PRT

<213> Enterobacter cloacae

<400> 7190

Glu Arg Glu Glu Lys Lys Lys Arg Gly Lys Arg Gly Lys Lys Lys
 1 5 10 15
 Glu Gly Gly Lys Lys Arg Glu Lys Gly Gly Lys Lys Lys Glu Arg Lys
 20 25 30
 Glu Gly Lys Gly Glu Glu Gly Glu Gly Gly Lys Gly Gly Gly Lys Arg
 35 40 45
 Gly Arg Arg Gly Gly Lys Lys Gly Glu Lys Lys Lys Glu Lys Glu Gly
 50 55 60
 Lys Arg Glu Glu Lys Gly Arg Glu Lys Lys Gly Arg Gly Lys Glu Gly
 65 70 75 80
 Glu Glu Gly Lys Gly Gly Glu Gly Gly Lys Lys Lys Lys Glu Lys Lys
 85 90 95
 Gly Arg Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys
 100 105 110
 Lys Lys Lys Lys Lys Lys Thr Arg Gln Asn Thr Leu His Asn Leu Pro
 115 120 125
 His Phe Pro Cys Cys His Leu His Leu Thr Lys Asn Ser Lys Glu Thr
 130 135 140
 Pro Met Arg Ile Leu Pro Val Ile Ala Ala Val Thr Ala Ala Phe Leu
 145 150 155 160
 Val Val Ala Cys Ser Ser Pro Thr Pro Pro Pro Gly Val Thr Val Val
 165 170 175
 Ser Asn Phe Asp Ala Gln Arg Phe Leu Gly Thr Trp Tyr Glu Ile Ala
 180 185 190
 Arg Met Asp His Gln Phe Glu Arg Gly Leu Glu Lys Val Thr Val Asn
 195 200 205
 Tyr Ser Ala Met Asp Asp Gly Gly Ile Arg Val Ile Asn Arg Gly Tyr
 210 215 220
 Asn Pro Asp Arg Gln Met Trp Gln Gln Ser Val Gly Gln Ala Tyr Phe
 225 230 235 240
 Thr Gly Ala Ser Asn Arg Ala Ala Met Lys Val Ser Phe Ile Gly Pro
 245 250 255
 Phe Tyr Gly Gly Tyr Asn Val Ile Ala Leu Asp Arg Glu Tyr Arg His
 260 265 270
 Ala Leu Val Cys Gly Pro Asp Arg Asn Tyr Leu Trp Ile Leu Ser Arg
 275 280 285
 Thr Pro Thr Ile Pro Ala Glu Met Lys Gln Gln Met Leu Asp Ile Ala
 290 295 300
 Thr Arg Gln Gly Phe Asp Val Thr Lys Leu Leu Trp Val Lys Gln Pro
 305 310 315 320
 His

<210> 7191
 <211> 213
 <212> PRT
 <213> Enterobacter cloacae

<400> 7191

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Trp Gln Glu Ala Lys Pro Leu Ala Asp Cys Glu Asn Phe Met Phe Lys
1      5      10      15
Ile Leu Leu Ile Asp Arg Cys His Phe Thr Arg Thr Gly Phe Glu Ala
20      25      30
Trp Val Asn His Ser Asp Leu Phe Ser Gly His Phe Val Val Thr Gly
35      40      45
Val Asn Asn Leu Phe Leu Ala Arg Glu His Ile Leu Gln Trp Lys Pro
50      55      60
Ala Leu Val Ile Ala Asp Leu Ser Gly Phe Arg Gln Asp Leu His His
65      70      75      80
Phe Gln Gln Leu Ser Ser Leu Leu Ile Ala Ser Glu Thr Leu Pro Phe
85      90      95
Ile Met Leu Gln Ser Gly Gln Glu Gln Glu Met Thr Asp Tyr Leu Ala
100     105     110
Gln Phe Pro Ile Trp Ser Ser Leu Ser Lys Asn Thr Asp Leu Glu Lys
115     120     125
Leu Ala Ala Val Ile Asn Asp Ala Leu Thr Ser Cys Ala Ser Ala Glu
130     135     140
Leu Pro Glu Met Ala Ala Pro Leu Leu Thr Arg Gln Glu Glu Arg Val
145     150     155     160
Leu Ser Leu Trp Met Asp Gly Ala Ser Asn Gln Lys Ile Ala Ser Asn
165     170     175
Leu Arg Ile Asn Gly Lys Thr Val Tyr Thr Tyr Lys Arg Asn Ile Arg
180     185     190
Met Lys Leu His Met Asp Thr Arg Tyr Ser Pro Phe Leu Ser Leu Gln
195     200     205
Glu Val Glu Asn
210

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<210> 7192
 <211> 237
 <212> PRT
 <213> Enterobacter cloacae

<400> 7192

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Pro Pro Ile Val Phe Ser Asp Ala Thr Tyr Asn Phe Cys Thr Arg Leu
1      5      10      15
Lys Lys Gly Gly Phe Met Ser Ala Ser Ser Gly Glu Glu Lys Val
20      25      30
Thr Trp Val Gly Tyr Leu Ala Phe Val Leu Thr Ile Val Phe Phe Ser
35      40      45
Gly Phe Phe Ala Lys Ser Thr Glu Trp Trp Arg Val Leu Asp Phe Thr
50      55      60
Val Leu Asn Gly Ser Phe Gly Pro Val Asn Gly Ala Leu Thr Phe Arg
65      70      75      80
Gly Glu Gly Gly Thr Gly Ala Lys Asp Gly Phe Leu Phe Ala Leu Glu
85      90      95
Leu Ala Pro Ser Val Ile Leu Ser Leu Gly Ile Ile Ala Val Thr Glu
100     105     110
Gly Leu Gly Gly Leu Arg Ala Ala Gln Gln Leu Met Thr Pro Ile Leu
115     120     125
Arg Pro Leu Leu Gly Val Pro Gly Ile Cys Ser Leu Ala Leu Ile Ala
130     135     140

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Asn Leu Gln Asn Thr Asp Ala Ala Ala Gly Met Thr Lys Glu Leu Thr
 145 150 155 160
 Asn Glu Gly Ala Ile Thr Asp His Glu Arg Ala Ile Phe Ala Thr Phe
 165 170 175
 Gln Thr Ser Gly Ser Ala Ile Ile Thr Asn Tyr Phe Ser Ser Gly Ala
 180 185 190
 Ala Leu Phe Thr Phe Ile Thr Val Pro Val Ile Thr Pro Leu Ala Val
 195 200 205
 Ile Leu Val Phe Lys Phe Val Gly Ala Asn Phe Leu Arg Leu Trp Ile
 210 215 220
 Ala His Met Glu Val Arg Cys Ala Gln Glu Glu Lys
 225 230 235

<210> 7193

<211> 397

<212> PRT

<213> Enterobacter cloacae

<400> 7193

Cys Asn Tyr Ser Ser Glu Glu Ile Lys Met Asp Phe Ser Val Leu Glu
 1 5 10 15
 Pro His Leu Phe Arg Asn Ala Gln Leu Tyr Ala Pro Glu Asp Leu Gly
 20 25 30
 His Cys Asp Leu Leu Ile Ala Gly Gly Lys Ile Val Ala Val Glu Lys
 35 40 45
 Ala Gly His Ala Thr Met Arg Pro Asp Cys Pro Glu Ser Asp Leu Ala
 50 55 60
 Gly Ala Val Val Cys Pro Gly Phe Ile Asp Gln His Val His Leu Ile
 65 70 75 80
 Gly Gly Gly Gly Glu Ala Gly Pro His Thr Arg Thr Pro Glu Val Arg
 85 90 95
 Leu Ser Ala Leu Val Ala Ala Gly Ile Thr Ser Val Val Gly Leu Leu
 100 105 110
 Gly Thr Asp Gly Val Thr Arg His Pro Glu Ser Leu Leu Ala Lys Thr
 115 120 125
 Arg Ala Leu Glu His Glu Gly Ile Ser Ala Trp Met Leu Thr Gly Ala
 130 135 140
 Tyr Gly Leu Pro Ser Pro Thr Ile Thr Gly Ser Ile Glu Lys Asp Val
 145 150 155 160
 Ala Leu Ile Asp Lys Ile Ile Gly Val Lys Cys Ala Ile Ser Asp His
 165 170 175
 Arg Ser Ser Ala Pro Ala Asp Asp Gln Leu Ala Asn Met Ala Ala Gln
 180 185 190
 Ser Arg Val Gly Gly Leu Leu Gly Ala Lys Ala Gly Ile Ser Val Phe
 195 200 205
 His Leu Gly Asn Ser Pro Lys Leu Leu Glu Pro Leu Leu Asn Ile Leu
 210 215 220
 Asn Asn Ala Asp Val Pro Arg Thr Lys Leu Leu Pro Thr His Val Asn
 225 230 235 240
 Arg Ala Gln Ala Leu Phe His Ala Ala Leu Asp Tyr Ala Arg Glu Gly
 245 250 255
 Gly Tyr Ile Asp Ile Thr Thr Ser Ile Ser Glu Pro Ile Asp Ala Ala
 260 265 270
 Thr Ala Ile Ala Thr Ala Arg Asp Ala Gln Val Pro Phe Asn Arg Leu
 275 280 285
 Thr Leu Cys Ser Asp Gly Asn Gly Ser Gln Pro Asn Phe Asp Ala Asn
 290 295 300
 Gly Asn Leu Val Gly Ile Gly Val Ala Gly Phe Glu Ser Leu Leu Asp
 305 310 315 320
 Thr Leu Gln Gln Leu Val Gly Arg Tyr His Leu Pro Leu Glu Glu Ala
 325 330 335

Leu Leu Pro Phe Thr Arg Asn Val Ala Glu Phe Leu Gly Leu Glu His
 340 345 350
 Lys Gly Arg Ile Ala Pro Gly Cys Asp Ala Asp Phe Leu Val Leu Thr
 355 360 365
 Asp Asp Leu Lys Ile Arg Glu Val Trp Ala Lys Gly Arg Gln Met Val
 370 375 380
 Arg Glu Gly Val Val Cys Val Lys Gly Thr Phe Glu
 385 390 395

<210> 7194

<211> 158

<212> PRT

<213> Enterobacter cloacae

<400> 7194

Ala Met Ala Leu Glu Ser Glu His Gly Thr Asp Ser Ala Phe Ser Ser
 1 5 10 15
 Ser Thr Ala Glu Ala Thr Ala Leu Ser Ile Pro Arg Phe Arg Ser Ile
 20 25 30
 Gly Phe Met Pro Ala Ala Thr Ala Phe Arg Pro Ser Val Met Ile Ala
 35 40 45
 Cys Ala Ser Thr Val Ala Val Val Val Pro Ser Pro Ala Ala Ser Phe
 50 55 60
 Ala Leu Glu Ala Thr Ser Phe Thr Ile Cys Ala Pro Met Phe Ser Asn
 65 70 75 80
 Leu Ser Ser Ser Ser Ile Ser Arg Ala Thr Glu Thr Pro Ser Leu Val
 85 90 95
 Met Val Gly Ala Pro Lys Asp Leu Ser Ser Thr Thr Leu Arg Pro Phe
 100 105 110
 Gly Pro Arg Val Thr Phe Thr Ala Ser Ala Ser Thr Phe Thr Pro Arg
 115 120 125
 Ser Ile Phe Thr Arg Ala Ser Leu Pro Asn Phe Thr Ser Leu Ala Ala
 130 135 140
 Met Phe Leu Phe Pro Gln Ile Arg Thr Val Phe Val Arg
 145 150 155

<210> 7195

<211> 439

<212> PRT

<213> Enterobacter cloacae

<400> 7195

Ala Arg Gln Val Phe Met Phe Gly Ala Glu Leu Val Ile Val Leu Leu
 1 5 10 15
 Ala Ile Tyr Leu Gly Ala Arg Leu Gly Gly Ile Gly Ile Gly Phe Ala
 20 25 30
 Gly Gly Leu Gly Val Leu Val Leu Thr Leu Ile Phe Gln Ile Lys Pro
 35 40 45
 Gly Ala Ile Pro Phe Asp Val Ile Glu Ile Ile Met Ala Val Ile Ala
 50 55 60
 Ala Ile Ala Ala Met Gln Val Ala Gly Gly Met Asp Tyr Leu Val Ser
 65 70 75 80
 Leu Ala Glu Arg Met Leu Arg Arg His Pro Lys Tyr Ile Thr Phe Leu
 85 90 95
 Ala Pro Leu Val Thr Trp Phe Met Thr Ile Leu Ala Gly Thr Gly His
 100 105 110
 Thr Ala Phe Ser Thr Leu Pro Val Ile Thr Glu Val Ala Lys Glu Gln
 115 120 125
 Gly Ile Arg Pro Ser Arg Pro Leu Ser Ile Ala Val Val Ala Ser Gln
 130 135 140
 Ile Ala Ile Thr Ala Ser Pro Ile Ser Ala Ala Val Val Phe Phe Ala

145 150 155 160
 Gly Ile Leu Glu Pro Met Gly Val Ser Tyr Leu Thr Leu Leu Ala Ile
 165 170 175
 Cys Ile Pro Val Thr Leu Ile Ala Val Met Ile Thr Ala Val Leu Cys
 180 185 190
 Asn Phe Leu Gly Ala Glu Leu Lys Asp Asp Pro Val Tyr Gln Glu Arg
 195 200 205
 Leu Ala Lys Gly Glu Val Ser Leu Arg Gly Ser Gln Val Phe Glu Leu
 210 215 220
 Lys Pro His Ala Lys Arg Ser Val Leu Leu Phe Leu Ile Gly Ile Val
 225 230 235 240
 Ala Val Met Phe Tyr Ala Thr Ala Ile Ser Asp Thr Val Gly Leu Ile
 245 250 255
 Gln Asn Pro Val Leu Pro Arg Asn Glu Ala Ile Val Val Phe Met Leu
 260 265 270
 Thr Ile Ala Thr Leu Ile Ser Ile Thr Cys Lys Ile Asp Thr Ser Glu
 275 280 285
 Val Leu Asn Ala Ser Thr Phe Lys Ser Gly Met Ser Ala Cys Val Cys
 290 295 300
 Val Leu Gly Val Ala Trp Leu Gly Asp Thr Phe Val Lys Ala His Ile
 305 310 315 320
 Ser Asp Ile Gln Thr Val Ala Gly Asp Leu Leu His Asn Tyr Pro Trp
 325 330 335
 Leu Leu Ala Val Val Leu Phe Phe Ala Ala Thr Leu Leu Tyr Ser Gln
 340 345 350
 Ala Ala Thr Thr Lys Ala Leu Met Pro Ala Ala Leu Met Leu Gly Val
 355 360 365
 Thr Pro Leu Thr Ala Ile Ala Ser Phe Ala Ala Val Ser Ala Leu Phe
 370 375 380
 Val Leu Pro Thr Tyr Pro Thr Leu Leu Ala Ala Val Glu Met Asp Asp
 385 390 395 400
 Thr Gly Ser Thr Arg Ile Gly Lys Tyr Val Phe Asn His Ala Phe Leu
 405 410 415
 Ile Pro Gly Val Val Ala Ile Thr Leu Cys Val Ile Leu Gly Phe Ile
 420 425 430
 Ile Gly Gly Ile Val Leu
 435

<210> 7196

<211> 578

<212> PRT

<213> Enterobacter cloacae

<400> 7196

Arg His Val Ala Gly Arg Lys Ser Asp Gly Arg Asp Arg Ala Ala Ser
 1 5 10 15
 Ala Ser Gly Cys Arg Pro Val Ala Lys Met Pro Gly Arg Val Arg Thr
 20 25 30
 Thr His Asn Arg Lys Thr Val Arg Val Ser Asp Pro Ala Gly Arg Asp
 35 40 45
 Thr Val Thr Phe Lys Ile Lys Lys His Asn Thr Thr Thr Gln Gln Gln
 50 55 60
 Ser Arg Gly Thr Pro Met Ser Met Ser Ser Ile Pro Ser His Ser Pro
 65 70 75 80
 Ser Gly Lys Leu Tyr Gly Trp Val Glu Arg Ile Gly Asn Lys Val Pro
 85 90 95
 His Pro Phe Leu Leu Phe Ile Tyr Leu Ile Val Ile Leu Met Val Ala
 100 105 110
 Thr Ala Val Leu Ser Ala Phe Glu Val Ser Val Arg Ser Pro Ala Asp
 115 120 125
 Gly Ser Met Val Ala Val Lys Asn Leu Leu Ser Val Glu Gly Leu His

130	135	140
Trp Phe Leu Pro Asn Val Ile Lys Asn Phe Ser Gly Phe Ala Pro Leu		
145	150	155
Gly Ala Ile Leu Ala Leu Val Leu Gly Ala Gly Leu Ala Glu Arg Val		160
	165	170
Gly Leu Leu Pro Ala Leu Met Val Lys Met Ala Ser His Val Ser Ala		175
	180	185
Arg Tyr Ala Ser Tyr Met Val Leu Phe Ile Ala Phe Phe Ser His Ile		190
	195	200
Ser Ser Asp Ala Ala Leu Val Ile Met Pro Pro Met Gly Ala Leu Ile		205
	210	215
Phe Leu Ala Val Gly Arg His Pro Val Ala Gly Leu Leu Ser Ala Ile		220
225	230	235
Ala Gly Val Gly Cys Gly Phe Thr Ala Asn Leu Leu Ile Val Thr Thr		240
	245	250
Asp Val Leu Leu Ser Gly Ile Ser Thr Glu Ala Ala Ser Thr Ile Asp		255
	260	265
Ala Thr Met His Val Ser Val Ile Asp Asn Trp Tyr Phe Met Ala Ser		270
	275	280
Ser Val Ile Val Leu Thr Ile Val Gly Gly Leu Ile Thr Asp Lys Ile		285
	290	295
Ile Glu Pro Arg Leu Gly Lys Trp Glu Gly Arg Ser Asp Glu Lys Leu		300
305	310	315
Glu Thr Leu Ser Lys Glu Gln Gln Phe Gly Leu Arg Val Ala Gly Ile		320
	325	330
Val Ser Leu Ala Phe Ile Ala Val Val Ala Leu Met Val Val Pro Glu		335
	340	345
Asn Gly Val Leu Arg Asp Pro Ile Lys His Thr Val Leu Pro Ser Pro		350
	355	360
Phe Ile Gln Gly Ile Val Pro Leu Ile Ile Leu Phe Phe Val Val		365
	370	375
Ser Leu Ala Tyr Gly Ile Ala Thr Gly Lys Ile Arg Arg Gln Gly Asp		380
385	390	395
Leu Pro His Leu Met Ile Glu Pro Met Lys Glu Met Ala Gly Phe Ile		400
	405	410
Val Met Val Phe Pro Leu Ala Gln Phe Val Ala Met Phe Asn Trp Ser		415
	420	425
Asn Met Gly Lys Phe Met Ala Val Ser Leu Thr Asp Ala Leu Glu Ala		430
	435	440
Ala Gly Leu Ser Gly Val Pro Ala Phe Val Gly Leu Ala Leu Leu Ser		445
	450	455
Ser Leu Leu Cys Met Phe Ile Ala Ser Gly Ser Ala Ile Trp Ser Ile		460
465	470	475
Leu Ala Pro Ile Phe Val Pro Met Phe Met Met Leu Gly Phe His Pro		480
	485	490
Ala Phe Ala Gln Ile Leu Phe Arg Val Ala Asp Ser Ser Val Ile Pro		495
	500	505
Leu Ala Pro Val Ser Pro Phe Val Pro Leu Phe Leu Gly Phe Leu Gln		510
	515	520
Arg Tyr Arg Pro Glu Ala Lys Leu Gly Thr Tyr Tyr Ser Leu Val Leu		525
	530	535
Pro Tyr Pro Leu Ile Phe Leu Gly Val Trp Leu Val Met Leu Val Ala		540
545	550	555
Trp Tyr Leu Val Gly Leu Pro Ile Gly Pro Gly Val Tyr Pro Arg Leu		560
	565	570
		575

Asn

<210> 7197

<211> 175

<212> PRT

<213> Enterobacter cloacae

<400> 7197

Gly Val Leu Met Leu Arg Leu Leu Glu Asp Lys Ile Ala Thr Pro Leu
 1 5 10 15
 Gly Pro Leu Trp Val Ile Ala Asp Glu Ala Phe Asn Leu Arg Ala Val
 20 25 30
 Glu Trp Glu Glu His Ser Asp Arg Met Val Glu Leu Leu Asn Ile His
 35 40 45
 Tyr Arg Ala Glu Gly Tyr Glu Arg Val Thr Ala Arg Asn Pro Gly Gly
 50 55 60
 Leu Ser Asp Lys Leu Thr Ala Tyr Phe Glu Gly Asp Leu Ser Ile Ile
 65 70 75 80
 Asn Thr Leu Pro Thr Ala Thr Ala Gly Thr Pro Phe Gln Arg Glu Val
 85 90 95
 Trp Gln Ala Leu Arg Asn Ile Pro Cys Gly Gln Val Met His Tyr Gly
 100 105 110
 Gln Leu Ala Glu Gln Leu Gly Arg Ala Gly Ala Ala Arg Ala Val Gly
 115 120 125
 Ala Ala Asn Gly Ser Asn Pro Val Ser Ile Val Val Pro Cys His Arg
 130 135 140
 Val Ile Gly Arg Asn Gly Thr Leu Thr Gly Tyr Ala Gly Gly Val Gln
 145 150 155 160
 Arg Lys Glu Trp Leu Leu Arg His Glu Gly Tyr Phe Leu Leu
 165 170 175

<210> 7198

<211> 256

<212> PRT

<213> Enterobacter cloacae

<400> 7198

Gly Leu Ser Lys Pro Met Ile Pro Glu Lys Arg Ile Ile Arg Arg Ile
 1 5 10 15
 Gln Ser Gly Gly Cys Ala Ile His Cys Gln Asp Cys Ser Ile Ser Gln
 20 25 30
 Leu Cys Ile Pro Phe Thr Leu Asn Glu His Glu Leu Asp Gln Leu Asp
 35 40 45
 Asn Ile Ile Glu Arg Lys Lys Pro Ile Gln Lys Gly Gln Thr Leu Phe
 50 55 60
 Lys Ala Gly Asp Glu Leu Lys Ser Leu Tyr Ala Ile Arg Ser Gly Thr
 65 70 75 80
 Ile Lys Ser Tyr Thr Ile Thr Glu Gln Gly Asp Glu Gln Ile Thr Gly
 85 90 95
 Phe His Leu Ala Gly Asp Leu Val Gly Phe Asp Ala Ile Gly Ser Gly
 100 105 110
 His His Pro Ser Phe Ala Gln Ala Leu Glu Thr Ser Met Val Cys Glu
 115 120 125
 Ile Pro Phe Glu Thr Leu Asp Asp Leu Ser Gly Lys Met Pro Asn Leu
 130 135 140
 Arg Gln Gln Met Met Arg Leu Met Ser Gly Glu Ile Lys Gly Asp Gln
 145 150 155 160
 Asp Met Ile Leu Leu Ser Lys Lys Asn Ala Glu Glu Arg Leu Ala
 165 170 175
 Ala Phe Ile Tyr Asn Leu Ser Arg Arg Phe Ala Glu Arg Gly Phe Ser
 180 185 190
 Pro Arg Glu Phe Arg Leu Thr Met Thr Arg Gly Asp Ile Gly Asn Tyr
 195 200 205
 Leu Gly Leu Thr Val Glu Thr Ile Ser Arg Leu Leu Gly Arg Phe Gln
 210 215 220
 Lys Ser Gly Met Leu Ala Val Lys Gly Lys Tyr Ile Thr Ile Glu Asn

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<210> 7199
<211> 490
<212> PRT
<213> Enterobacter cloacae
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Phe	Pro	Val	Asp	Ala	Arg	Cys	Val	Met	Gln	Glu	Asn	Tyr	Ala	Phe	Ile
1				5					10					15	
Ala	Asp	Ala	Ile	Asp	Thr	Arg	Cys	Gln	Thr	Phe	Thr	Asp	Ile	Ala	Asp
		20						25					30		
Asp	Ile	Trp	Asp	His	Pro	Glu	Thr	Arg	Phe	Glu	Glu	Phe	Trp	Ser	Ala
	35					40						45			
Glu	Arg	Leu	Ala	Ser	Ala	Leu	Glu	Ala	Glu	Gly	Phe	Thr	Leu	Thr	Arg
	50					55					60				
Glu	Ala	Gly	Gly	Ile	Pro	Asn	Ala	Phe	Ile	Ala	Ser	Tyr	Gly	Ser	Gly
65				70					75				80		
Lys	Pro	Val	Ile	Ala	Leu	Leu	Gly	Glu	Tyr	Asp	Ala	Leu	Ala	Gly	Leu
			85						90				95		
Ser	Gln	Gln	Ala	His	Cys	Ala	Thr	Ala	Gln	Ser	Ala	Thr	Pro	Gly	Ala
			100					105					110		
Asn	Gly	His	Gly	Cys	Gly	His	Asn	Leu	Leu	Gly	Thr	Ala	Ala	Phe	Ala
	115						120					125			
Gly	Ala	Val	Ala	Val	Lys	Ser	Trp	Leu	Glu	Gln	His	Gly	Gly	Ser	Gly
	130					135					140				
Thr	Val	Arg	Phe	Tyr	Gly	Cys	Pro	Gly	Glu	Glu	Gly	Gly	Ser	Gly	Lys
145				150					155				160		
Thr	Phe	Met	Val	Arg	Glu	Gly	Leu	Phe	Asp	Asp	Val	Asp	Ala	Gly	Val
			165					170					175		
Thr	Trp	His	Pro	Glu	Ala	Phe	Ala	Gly	Met	Phe	Asn	Val	Ser	Thr	Leu
			180					185					190		
Ala	Asn	Ile	Gln	Ala	Ala	Trp	Arg	Phe	Lys	Gly	Ile	Ala	Ala	His	Ala
	195					200						205			
Ala	Asn	Ser	Pro	His	Leu	Gly	Arg	Ser	Ala	Leu	Asp	Ala	Val	Thr	Leu
	210					215					220				
Met	Thr	Thr	Gly	Thr	Asn	Phe	Leu	Asn	Glu	His	Ile	Ile	Glu	Lys	Ala
225				230					235				240		
Arg	Val	His	Tyr	Ala	Ile	Thr	Asp	Thr	Gly	Gly	Ile	Ser	Pro	Asn	Val
			245						250				255		
Val	Gln	Ala	Gln	Ala	Glu	Val	Leu	Tyr	Leu	Ile	Arg	Ala	Pro	Glu	Met
			260					265					270		
Ala	Asp	Ala	Gln	Gln	Ile	Tyr	Ala	Arg	Ile	Glu	Lys	Ile	Ala	Gln	Gly
	275						280					285			
Ala	Ala	Met	Met	Thr	Glu	Thr	Thr	Val	Glu	Cys	Arg	Phe	Asp	Lys	Ala
	290					295					300				
Cys	Ser	Ser	Tyr	Leu	Pro	Asn	Arg	Thr	Leu	Glu	Ala	Ala	Met	Tyr	Arg
305				310						315				320	
Ala	Leu	Gln	His	Tyr	Gly	Thr	Pro	Ala	Trp	Thr	Glu	Glu	Glu	Arg	Glu
			325						330					335	
Phe	Ala	Arg	Lys	Ile	Arg	Ala	Thr	Leu	Thr	Ala	Asn	Asp	Leu	Gln	Asn
			340					345					350		
Ser	Leu	Lys													

405 410 415
 Gly Thr Pro Leu His Thr Trp Gln Leu Val Ala Gln Gly Arg Thr Ser
 420 425 430
 Ile Ala His Lys Gly Met Leu Leu Ala Gly Lys Val Met Gly Ala Thr
 435 440 445
 Ala Leu His Leu Leu Gln Asp Ala Asp Leu Leu Arg Lys Cys Arg Glu
 450 455 460
 Glu Phe Glu Gln His Ile Thr Glu Lys Pro Tyr Glu Cys Pro Ile Pro
 465 470 475 480
 Gln Gly Val Thr Pro Ser Pro Leu Lys
 485 490

<210> 7200

<211> 573

<212> PRT

<213> Enterobacter cloacae

<400> 7200

Ile Arg Tyr Asp Asp Ser Ile Asp Val Thr Leu Pro Leu Leu Leu Arg
 1 5 10 15
 Met Thr Ala Met Leu Lys Asn Leu His Val Ile Thr Gly Ile Ile Phe
 20 25 30
 Ala Leu Thr Ile Phe Cys Leu Leu Gln Val Val Thr Gly Gly Leu Phe
 35 40 45
 Tyr Ser Ala Val Asn Asn Asp Arg His Asn Phe Gln Asn Ser Gly Leu
 50 55 60
 Leu Asn Ala Gln Gln Glu Ser Leu Ser Asp Ser Val Asn Thr Leu Val
 65 70 75 80
 Lys Thr Arg Val Thr Val Thr Arg Val Ala Ile Arg Tyr Leu Lys Asn
 85 90 95
 Gln Arg Asp Pro Ala Ser Leu Ala Ala Ile Asn Thr Leu Leu Gly Thr
 100 105 110
 Ala Asn Gly Ser Leu Ala Lys Ala Glu Asp Tyr Tyr Lys Asn Trp Gln
 115 120 125
 Ala Ile Pro Gln Val Lys Gly Gln His Ala Ala Leu Thr Glu Glu Met
 130 135 140
 Gln Lys Ala Trp Lys Gln Met His Glu Val Met Arg Leu Ser Ile Glu
 145 150 155 160
 Tyr Leu Arg Ala Asp Asn Tyr Gln Ala Tyr Gly Asp Leu Asp Ala Gln
 165 170 175
 Gln Ala Gln Asp Glu Met Glu Ala Val Tyr Thr Arg Trp Arg Ala Glu
 180 185 190
 Asn Asn Val Leu Leu Lys Ala Ala Ala Glu Glu Asn Gln Ser Ser Phe
 195 200 205
 Thr Gln Met Gln Trp Thr Leu Ala Ala Ile Phe Leu Thr Val Ile Ala
 210 215 220
 Val Leu Val Val Ile Trp Gln Gly Leu Gln His Leu Leu Leu Lys Pro
 225 230 235 240
 Leu Asn Ala Ile Met Asn His Ile Arg Thr Ile Ala Ser Gly Asp Leu
 245 250 255
 Thr Gln Asn Val Ala Ile Ala Gly Arg Asn Glu Met Gly Gln Leu Ala
 260 265 270
 Ala Gly Leu His Glu Met Gln Gln Ser Leu Val Ser Thr Val Ser Ala
 275 280 285
 Val Arg Gly Ser Thr Asp Ser Ile Tyr Thr Gly Ala Gly Glu Ile Ala
 290 295 300
 Ala Gly Ser Asn Asp Leu Ser Ala Arg Thr Glu Gln Gln Ala Ala Ser
 305 310 315 320
 Leu Glu Glu Thr Ala Ala Ser Met Glu Glu Leu Thr Ala Thr Val Lys
 325 330 335
 Gln Asn Ser Asp Asn Ala Arg Gln Ala Thr Leu Leu Ala Lys Asn Ala

340 345 350
 Ser Glu Thr Ala Ala Arg Gly Gly Gln Val Val Asp Asn Val Val Arg
 355 360 365
 Thr Met Asn Asp Ile Ala Asp Ser Ser Gln Gln Ile Ala His Ile Thr
 370 375 380
 Gly Val Ile Asp Ser Ile Ala Phe Gln Thr Asn Ile Leu Ala Leu Asn
 385 390 395 400
 Ala Ala Val Glu Ala Ala Arg Ala Gly Glu Gln Gly Arg Gly Phe Ala
 405 410 415
 Val Val Ala Gly Glu Val Arg Thr Leu Ala Ser Arg Ser Ala Gln Ala
 420 425 430
 Ala Lys Glu Ile Lys Gly Leu Ile Glu Asn Ser Val Ser Arg Val Asn
 435 440 445
 Thr Gly Ser Glu Gln Val Ser Glu Ala Gly Ala Thr Met Lys Glu Ile
 450 455 460
 Val Ala Ala Val Thr Arg Val Thr Asp Ile Met Ala Glu Ile Ser Ser
 465 470 475 480
 Ala Ser Asp Glu Gln Ser Arg Gly Ile Glu Gln Val Ser Leu Ala Val
 485 490 495
 Ser Gln Met Asp Ser Val Thr Gln Gln Asn Ala Ala Leu Val Gln Glu
 500 505 510
 Ser Ala Thr Ala Ala Ala Ala Leu Glu Asp Gln Ser Glu Gln Leu Arg
 515 520 525
 Gln Ala Val Ala Ala Phe Arg Leu Asn Ala Gln Ala Ser Pro Ala Ala
 530 535 540
 Arg Pro Lys Asn Val Lys Thr Pro Val Leu Leu Arg Pro Ser Ala Ala
 545 550 555 560
 Gly Ala Asn Thr Ala Asp Ala Asn Trp Glu Thr Phe
 565 570

<210> 7201

<211> 449

<212> PRT

<213> Enterobacter cloacae

<400> 7201

Ser Ser Ser His Ile Leu Met Met Thr Gly Lys Asp Met Asn Ala Leu
 1 5 10 15
 Ala Gln Tyr Ile Gln Thr Leu Ala Pro Gln Leu Ser Ala Trp Arg Arg
 20 25 30
 Asp Phe His His Phe Ala Glu Ser Gly Trp Val Glu Phe Arg Thr Ala
 35 40 45
 Ala Lys Val Ala Glu Ile Leu Ala Ser Leu Gly Tyr Glu Leu Ala Met
 50 55 60
 Gly Arg Asp Val Val Asp Ala Glu Ser Arg Met Gly Leu Pro Asp Asp
 65 70 75 80
 Ala Thr Leu Ser Arg Glu Phe Ala Arg Ala Arg Ala Gln Gly Ala Pro
 85 90 95
 Glu Lys Trp Leu Ala Pro Phe Glu Gly Gly Phe Thr Gly Ile Val Ala
 100 105 110
 Thr Leu Asn Thr Gly Arg Pro Gly Pro Thr Leu Ala Phe Arg Val Asp
 115 120 125
 Met Asp Ala Leu Asp Leu Ser Glu Ala Leu Asp Asp Ser His Arg Pro
 130 135 140
 Phe Arg Asp Gly Phe Ala Ser Cys Asn Pro Gly Met Met His Ala Cys
 145 150 155 160
 Gly His Asp Gly His Thr Thr Ile Gly Leu Gly Leu Ala Gln Val Leu
 165 170 175
 Lys Gln His Glu Ala Gln Leu Asn Gly Thr Ile Lys Leu Ile Phe Gln
 180 185 190
 Pro Ala Glu Glu Gly Thr Arg Gly Ala Arg Ala Met Val Ala Ala Gly

195	200	205
Ala Leu Asp Gly Val Asp Tyr Phe Thr Ala Ile His Ile Gly Thr Gly		
210	215	220
Val Pro Glu Gly Thr Val Ile Cys Gly Ser Asp Asn Phe Met Ala Thr		
225	230	235
Thr Lys Phe Asp Val Arg Phe Thr Gly Val Ala Ala His Ala Gly Gly		240
	245	250
Lys Pro Glu Glu Gly Arg Asn Ala Leu Leu Ala Ala Ala Gln Ala Ala		255
	260	265
Ile Ala Leu His Gly Ile Ala Pro His Ser Glu Gly Ala Ser Arg Val		270
	275	280
Asn Val Gly Val Met Gln Ala Gly Ser Gly Arg Asn Val Val Pro Ala		285
	290	295
Asp Ala Leu Leu Lys Val Glu Thr Arg Gly Glu Ser Glu Ala Ile Asn		300
305	310	315
Gln Tyr Val Phe Glu Arg Ala Gln Ala Val Ile Thr Gly Ala Ala Ala		320
	325	330
Leu Tyr Gly Val Thr Thr Gly Ile Asn Leu Met Gly Ala Ala Thr Ser		335
	340	345
Ser Val Pro Ser Pro Ala Trp Val Asp Tyr Leu Arg Glu Gln Ala Ser		350
	355	360
Gln Val Pro Gly Val Thr His Ala Ile Asn Lys Val Lys Ala Pro Ala		365
	370	375
Gly Ser Glu Asp Ala Thr Leu Met Met Ala Arg Val Gln Gln Asn Gly		380
385	390	395
Gly Met Ala Ser Tyr Met Val Phe Gly Thr Gln Leu Ser Ala Gly His		400
	405	410
His Asn Glu Lys Phe Asp Phe Asp Glu Gln Val Met Asn Val Ala Ile		415
	420	425
Glu Thr Leu Ala Arg Thr Ala Leu Asn Phe Pro Trp Thr Arg Gly Val		430
	435	440
		445

<210> 7202

<211> 333

<212> PRT

<213> Enterobacter cloacae

<400> 7202

Val Thr Leu Leu Leu Thr Asp Cys Gly Asp Ser Ser Lys Glu Thr Cys	
1	5
Met Ala Lys Tyr Gln Asn Met Leu Val Ala Ile Asp Pro Asn Gln Asp	10
	15
	20
Asp Gln Pro Ala Leu Arg Arg Ala Val Tyr Leu His Gln Arg Ile Gly	25
	30
	35
Gly Lys Ile Lys Ala Phe Leu Pro Ile Tyr Asp Phe Ser Tyr Glu Met	40
	45
	50
Thr Thr Leu Leu Ser Pro Asp Glu Arg Thr Ala Met Arg Gln Gly Val	55
	60
	65
Ile Ser Gln Arg Thr Ala Trp Ile Arg Glu Gln Ala Lys Tyr Tyr Leu	70
	75
	80
	85
Glu Ala Gly Val Pro Ile Asp Ile Lys Val Val Trp His Asn Arg Pro	90
	95
	100
Phe Glu Ala Ile Ile Gln Glu Val Val Ala Gly Gly His Asp Leu Leu	105
	110
	115
Leu Lys Met Ala His Gln His Asp Lys Leu Glu Ser Val Ile Phe Thr	120
	125
	130
Pro Thr Asp Trp His Leu Leu Arg Lys Cys Pro Cys Pro Val Trp Met	135
	140
	145
Val Lys Asp Gln Pro Trp Pro Glu Gly Gly Lys Ala Val Val Ala Val	150
	155
	160


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<210> 7203
<211> 432
<212> PRT
<213> Enterobacter cloacae
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Lys 1	Arg	Asn	His	Leu 5	Gly	Ile	Ala	Gly	Leu 10	Ala	Ile	Ala	Leu	Ile	Ala
Thr	Ile	Phe	Gly 20	Pro	Asp	Pro	Gly	Asn 25	Val	Ala	Trp	Ile	Leu 30	Val	Ala
Met	Ile	Ile 35	Gly	Gly	Ala	Ile	Gly 40	Ile	Arg	Leu	Ala	Lys 45	Arg	Val	Glu
Met	Thr 50	Glu	Met	Pro	Glu	Leu 55	Val	Ala	Ile	Leu	His 60	Ser	Phe	Val	Gly
Leu 65	Ala	Ala	Val	Leu 70	Val	Gly	Phe	Asn	Ser	Tyr 75	Leu	Tyr	His	Glu	Pro 80
Gly	Leu	Glu	Pro	Ile 85	Leu	Val	Asn	Ile	His 90	Leu	Thr	Glu	Val	Phe	Leu
Gly	Ile	Phe	Ile 100	Gly	Ala	Val	Thr	Phe 105	Thr	Gly	Ser	Ile	Val	Ala	Phe
Gly	Lys	Leu 115	Arg	Gly	Lys	Ile	Ser 120	Ser	Lys	Pro	Leu	Met 125	Leu	Pro	Asn
Arg	His 130	Lys	Leu	Asn	Leu	Ala 135	Ala	Leu	Val	Val	Ser	Phe	Val	Leu	Leu
Val 145	Val	Phe	Val	Arg	Thr 150	Glu	Ser	Val	Gly	Leu	Gln	Val	Leu	Ala	Leu 160
Leu	Val	Met	Thr	Ile 165	Ile	Ala	Leu	Ala	Phe 170	Gly	Trp	His	Leu	Val	Ala
Ser	Ile	Gly	Gly 180	Ala	Asp	Met	Pro	Val 185	Val	Val	Ser	Met	Leu 190	Asn	Ser
Tyr	Ser	Gly 195	Trp	Ala	Ala	Ala	Ala 200	Ala	Gly	Phe	Met	Leu 205	Ser	Asn	Asp
Leu	Leu 210	Ile	Val	Thr	Gly	Ala 215	Leu	Val	Gly	Ser	Ser	Gly	Ala	Ile	Leu
Ser 225	Tyr	Ile	Met	Cys 230	Lys	Ala	Met	Asn	Arg	Ser 235	Phe	Ile	Ser	Val	Ile
Ala	Gly	Gly	Phe	Gly 245	Ser	Asp	Gly	Ser	Ser	Thr 250	Gly	Ser	Asp	Glu	Glu
Val	Gly	Glu	His	Arg	Glu	Ile	Ser	Ala	Glu	Asp	Thr	Ala	Glu	Met	Leu

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      260                      265                      270
Lys Asn Ser His Ser Val Ile Ile Thr Pro Gly Tyr Gly Met Ala Val
      275                      280                      285
Ala Gln Ala Gln Tyr Pro Val Ala Glu Ile Thr Glu Lys Leu Arg Ala
      290                      295                      300
Arg Gly Ile Lys Val Arg Phe Gly Ile His Pro Val Ala Gly Arg Leu
      305                      310                      315
Pro Gly His Met Asn Val Leu Leu Ala Glu Ala Lys Val Pro Tyr Asp
      325                      330                      335
Ile Val Leu Glu Met Asp Glu Ile Asn Asp Asp Phe Ala Asp Thr Asp
      340                      345                      350
Thr Val Leu Val Ile Gly Ala Asn Asp Thr Val Asn Pro Ala Ala Gln
      355                      360                      365
Asp Asp Pro Arg Ser Pro Ile Ala Gly Met Pro Val Leu Glu Val Trp
      370                      375                      380
Lys Ala Gln Asn Val Ile Val Phe Lys Arg Ser Met Asn Thr Gly Tyr
      385                      390                      395
Ala Gly Val Gln Asn Pro Leu Phe Phe Lys Asp Asn Thr His Met Leu
      405                      410                      415
Phe Gly Asp Ala Lys Ala Ser Val Asp Ala Ile Leu Lys Ala Leu
      420                      425                      430

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<210> 7204

<211> 299

<212> PRT

<213> Enterobacter cloacae

<400> 7204

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Ile Arg Ile Ile Phe Met Arg Lys Val Ser Met Ser Ser Ile Asp Lys
1                      5                      10                      15
Ser Gly Thr Phe Thr Leu Gly Thr Arg Thr Val Lys Arg Phe Gly Tyr
      20                      25                      30
Gly Ala Met Gln Leu Ala Gly Pro Gly Val Phe Gly Pro Pro Lys Asp
      35                      40                      45
Lys Asn Ala Ala Leu Ala Val Leu Arg Glu Ala Val Ala Ser Gly Val
      50                      55                      60
Asn His Ile Asp Thr Ser Asp Phe Tyr Gly Pro His Val Thr Asn Gln
      65                      70                      75                      80
Leu Ile Cys Glu Ala Leu His Pro Tyr Arg Asp Asp Leu Thr Ile Val
      85                      90                      95
Thr Lys Ile Gly Ala Arg Arg Gly Glu Asp Ala Ser Trp Leu Pro Ala
      100                      105                      110
Phe Ser Ala Gln Glu Leu Thr Gln Ala Val His Asp Asn Leu Arg Asn
      115                      120                      125
Leu Lys Arg Asp Val Leu Asp Val Val Asn Leu Arg Ile Met Phe Ser
      130                      135                      140
Ala His Gly Pro Ala Glu Gly Ser Ile Ala Ala Pro Leu Ser Thr Leu
      145                      150                      155                      160
Ala Glu Leu Gln Gln Gln Gly Leu Val Arg His Ile Gly Leu Ser Asn
      165                      170                      175
Val Thr Ala Ser Gln Val Ala Glu Ala Gln Lys Met Val Ser Val Val
      180                      185                      190
Cys Val Gln Asn Met Tyr Asn Val Val Asn Arg Gly Asp Asp Val Leu
      195                      200                      205
Val Asp Ser Leu Ala Gln Gln Gly Ile Ala Trp Val Pro Phe Phe Pro
      210                      215                      220
Leu Gly Gly Phe Thr Pro Leu Gln Ser Ser Gly Leu Gln Ala Val Ala
      225                      230                      235                      240
Asp Ser Leu Gly Ala Thr Pro Met Gln Val Ala Leu Ala Trp Leu Leu
      245                      250                      255
Gln Arg Ser Pro Asn Ile Leu Leu Ile Pro Gly Thr Ser Ser Val Ala

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<210> 7205
<211> 410
<212> PRT
<213> Enterobacter cloacae
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Lys 1	Arg	Cys	Asn	Phe 5	Ala	His	Pro	Asp	Lys 10	Pro	Pro	Pro	Gly	Ala 15	Val
Phe	Leu	Phe	Leu 20	Arg	Pro	Ala	Phe	Leu 25	Leu	Cys	Leu	Tyr	Phe 30	Thr	Leu
Cys	Val	Ile 35	Arg	Gly	Gly	Val	Met 40	Arg	Phe	Leu	Ser	Arg 45	Phe	Asp	Ile
Ile	Glu 50	Leu	Met	Met	Thr	Pro 55	Ser	Phe	Trp	Ile	Gly 60	Val	Ala	Thr	Val
Val 65	Phe	Val	Thr	Leu	Leu 70	Val	Tyr	Trp	Leu	Leu 75	Thr	Arg	Leu	Ile	Ala 80
Phe	Val	Lys	Lys	Gly 85	Ile	Thr	Thr	Trp	Gly 90	Asp	Lys	His	Pro	Ser 95	Thr
Asn	Arg	Met	Arg 100	Phe	Ile	Leu	Thr	Asp 105	Met	Leu	Asn	Arg	Thr 110	Ser	Arg
Val	Leu 115	Leu	Phe	Val	Val	Ala 120	Leu	Leu	Phe	Ser	Leu	Arg 125	Phe	Val	Asp
Leu	Pro 130	Asp	His	Leu	Phe	Gly 135	Thr	Val	Ser	His	Ala 140	Trp	Phe	Leu	Val
Phe 145	Ala	Ile	Gln	Val	Ala 150	Leu	Trp	Met	Asp	Gln	Gly 155	Val	Val	Ser	Trp 160
Leu	Arg	His	Val 165	Met	Leu	Ala	Pro	Gly	Ser 170	His	Lys	Asn	Pro	Val 175	Thr
Leu	Val	Ile 180	Thr	Gly	Leu	Ile	Leu	Arg 185	Ala	Ile	Val	Trp	Ser 190	Val	Met
Leu	Leu 195	Ser	Ile	Leu	Ala	Asn 200	Ala	Gly	Val	Asn	Ile 205	Thr	Ala	Leu	Val
Ala	Ser 210	Leu	Gly	Val	Gly	Gly 215	Ile	Ala	Ile	Ala 220	Leu	Ala	Val	Gln	Thr
Ile 225	Leu	Ser	Asp	Val	Phe 230	Ala	Ser	Leu	Ser	Ile 235	Gly	Phe	Asp	Lys	Pro 240
Phe	Glu	Ile	Gly 245	Asp	Phe	Val	Val	Phe	Asn 250	Asp	Val	Ala	Gly	Thr 255	Val
Glu	His	Ile 260	Gly	Leu	Lys	Thr	Thr	Arg 265	Ile	Arg	Ser	Leu	Ser 270	Gly	Glu
Gln	Ile 275	Val	Cys	Gly	Asn	Ala 280	Ile	Leu	Leu	Gln	Gln 285	Thr	Leu	His	Asn
Tyr	Lys 290	Arg	Met	Gln	Thr	Arg 295	Arg	Ile	Val	Phe 300	Thr	Phe	Gly	Val	Ala
Ser 305	Asp	Thr	Ala	Pro	Glu 310	Lys	Leu	Arg	Ser	Val 315	Gly	Glu	Met	Val	Lys
Gln	Ile	Ile	Thr 325	Asp	Val	Gly	Glu	Thr	Lys 330	Phe	Asp	Arg	Ala	His 335	Phe
Leu	Gly	Phe 340	Asp	Arg	Asp	Arg	Leu	Thr 345	Phe	Glu	Val	Val	His 350	Ile	Val
Asn	Thr 355	Ala	Asp	Tyr	Asn	Lys 360	Tyr	Met	Asp	Ile	Gln 365	Gln	Glu	Ile	Asn
Ile	Arg 370	Ile	Leu	Glu	Glu	Leu 375	Asn	Gln	Gln	Glu 380	Ile	Lys	Leu	Ala	Leu
Pro	Ser	Met	Val	Leu	His	Ala	Pro	Trp	Met	Asn	Ala	Gly	Asp	Glu	Ala

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<210> 7206
<211> 309
<212> PRT
<213> Enterobacter cloacae
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[illegible]

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<210> 7207
<211> 217
<212> PRT
<213> Enterobacter cloacae
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Ala Ile Ile Cys Thr Arg Ala Arg Met Ile Glu Thr Arg Asn Gly Arg
1 5 10 15
Arg Tyr Ser Thr Ser Leu Arg Cys Ser Arg Arg Ile Ser Met Asn Pro
20 25 30

Asp Asp Lys Ser Leu Phe Leu Asp Ala Met Glu Asp Val Gln Pro Leu
 35 40 45
 Lys Arg Cys Ala Asp Ile His Trp Gln Gln Ser Arg Asn Thr Arg Ala
 50 55 60
 Arg Gln Glu Ile Asp Thr Glu Gln Leu Asp Asn Phe Leu Thr Leu Gly
 65 70 75 80
 Phe Leu Glu Leu Leu Pro Leu Asp Glu Pro Leu Met Phe Gln Arg Glu
 85 90 95
 Gly Val Gln Gln Gly Val Phe Asp Lys Leu Arg Ser Gly Lys Tyr Ser
 100 105 110
 Arg Gln Ala Ser Leu Thr Leu Leu Arg Gln Pro Ala Glu Gln Cys Arg
 115 120 125
 Gln Leu Val Tyr Ser Phe Ile Arg Gln Ala Gly Arg Asp Gly Leu Arg
 130 135 140
 Asn Leu Ile Ile Val His Gly Lys Gly Arg Glu Gln Gln Ser His Pro
 145 150 155 160
 Asn Val Val Arg Ser Tyr Leu Ala Arg Trp Leu Thr Glu Phe Asp Glu
 165 170 175
 Val Gln Ala Phe Cys Glu Ala Gln Pro His His Gly Gly Ser Gly Ala
 180 185 190
 Cys Tyr Val Ser Leu Arg Lys Ser Glu Asp Ala Lys Arg Asp Asn Trp
 195 200 205
 Glu Arg His Ala Lys Arg Ser Arg
 210 215

<210> 7208

<211> 470

<212> PRT

<213> Enterobacter cloacae

<400> 7208

Ile Met Thr Leu Thr Ser Arg Trp Pro Ala Val Leu Gln Ala Val Met
 1 5 10 15
 Gln Gly Gln Pro Arg Ala Leu Ala Asp Ser His Tyr Pro Gln Trp His
 20 25 30
 Pro Ala Pro Val Thr Gly Leu Met Asn Asp Pro Asn Gly Phe Ile Trp
 35 40 45
 Phe Ala Gly Arg Tyr His Leu Phe Tyr Gln Trp Asn Pro Leu Gly Cys
 50 55 60
 Asn His Arg Tyr Lys Cys Trp Gly His Trp Ser Ser Ala Asp Leu Val
 65 70 75 80
 His Trp Gln His Glu Pro Met Ala Leu Met Pro Asp Glu Glu Tyr Asp
 85 90 95
 Arg Asn Gly Cys Tyr Ser Gly Ser Ala Val Asp Asn Asn Gly Val Leu
 100 105 110
 Thr Leu Cys Tyr Thr Gly Asn Val Lys Phe Asp Asp Gly Gly Arg Thr
 115 120 125
 Ala Trp Gln Cys Leu Ala Val Gln Asn Asp Asp Gly Thr Phe Ala Lys
 130 135 140
 Leu Gly Pro Val Leu Pro Leu Pro Asp Gly Tyr Thr Gly His Val Arg
 145 150 155 160
 Asp Pro Lys Val Trp Arg His Asp Gly Leu Trp Tyr Met Val Leu Gly
 165 170 175
 Ala Gln Asp Arg His Lys Arg Gly Lys Val Leu Leu Phe Thr Ser Ala
 180 185 190
 Asp Leu His Thr Trp Ala Ser Cys Gly Glu Ile Ala Gly His Gly Val
 195 200 205
 Asn Gly Leu Thr Asp Ala Gly Tyr Met Trp Glu Cys Pro Asp Leu Phe
 210 215 220
 Glu Leu Asp Gly Thr His Val Leu Ile Tyr Cys Pro Gln Gly Leu Ala
 225 230 235 240

Arg Glu Pro His Arg Tyr Leu Asn Thr Tyr Pro Ala Val Trp Met Ser
 245 250 255
 Gly Ala Phe Asp Tyr Gln Thr Pro Ala Phe Thr His Gly Glu Leu His
 260 265 270
 Glu Leu Asp Ala Gly Phe Glu Phe Tyr Ala Pro Gln Thr Thr Val Ala
 275 280 285
 Glu Asp Gly Arg Arg Ile Leu Ile Gly Trp Met Gly Val Pro Asp Gly
 290 295 300
 Glu Glu Met Leu Gln Pro Thr Arg Ala His Gly Trp Ile His Gln Met
 305 310 315 320
 Thr Cys Pro Arg Glu Leu Arg Tyr Arg Asp Gly Lys Leu Trp Gln Thr
 325 330 335
 Pro Val Arg Glu Leu Glu Thr Leu Arg Glu Asp Glu His His Trp Gln
 340 345 350
 Gly Arg Ala Ser Asp Ala Pro Val Leu Ala Gly Ala Arg Leu Glu Phe
 355 360 365
 Glu Leu Ser Ala Ser Cys Val Asn Val Asp Phe Ala Gly Ala Leu Arg
 370 375 380
 Leu Ile Val Asp Asp Ala Gly Ile Arg Leu Glu Arg Ala Ser Leu Lys
 385 390 395 400
 Thr Ala Asp Thr Leu Thr Arg Tyr Trp Gln Gly Thr Val His His Leu
 405 410 415
 Arg Val Leu Cys Asp Arg Ser Ser Val Glu Ile Phe Ile Asn His Gly
 420 425 430
 Glu Gly Val Met Ser Ser Arg Tyr Phe Pro Asp His Pro Ala Gln Val
 435 440 445
 Arg Phe Glu Gly Ala Ser Asp Ile Thr Leu Arg Tyr Trp Ser Leu Arg
 450 455 460
 Ser Cys Met Ile Glu
 465 470

<210> 7209

<211> 534

<212> PRT

<213> Enterobacter cloacae

<400> 7209

Arg Leu Asp Ser Ala Asp Asn Gln Arg Glu Ile Ile Ser Leu Arg Cys
 1 5 10 15
 Val Met Ser Leu Lys Lys Ser Ser Leu Ile Ile Leu Phe Ser Leu Leu
 20 25 30
 Phe Phe Phe Val Ala Ser Thr Ile Thr Ser Val Gly Leu Ile Ile Lys
 35 40 45
 Ser Asn Thr Ser Leu Asp Asn Val Asn Lys Glu Ile Gln Val Val Leu
 50 55 60
 Ser Ile Ile Asp Pro Ile Asn His Ser Arg Thr Leu Arg Val Arg Val
 65 70 75 80
 Met Glu Tyr Val Lys Met Val Glu Ala Gly Asp Ala Thr Asp Pro Ser
 85 90 95
 Ala Lys Leu Ala Ser Val Lys Glu Ala Leu Thr Lys Ala Asp Ser Ala
 100 105 110
 Phe Ser Ala Phe Met Ala Ser Pro Arg Leu Gln Glu Glu Ala Pro Leu
 115 120 125
 Val Thr Ala Tyr Gln Glu Ala Trp Gln Asn Tyr Arg Asn Gln Gly Leu
 130 135 140
 Ala Pro Leu Ile Ala Ala Ala Ala His Asp Val Ser Arg Phe Asn
 145 150 155 160
 Ala Leu Ile Pro Val Val Ser Gln Leu Asp Arg Gln Tyr Glu Ile Val
 165 170 175
 Leu Asp Gln Val Leu Ser Val His Gln Lys Tyr Ala Lys Thr Leu Asn
 180 185 190

Glu Glu Ala Ser His Asp Phe Val Ser Gly Leu Val Ile Ile Ala Ser
 195 200 205
 Ile Ala Val Leu Phe Val Val Ile Phe Ala Val Ser Leu Leu Met
 210 215 220
 Lys Arg Val Val Phe Ala Pro Val Asn Leu Ala Arg Glu His Cys Arg
 225 230 235 240
 Gln Ile Ala Ala Gly Lys Leu Asp Val Pro Val Pro Ile Lys Arg Asp
 245 250 255
 Ser Gly Asn Glu Ile Asp His Leu Met Ser Ser Met Glu Gln Met Arg
 260 265 270
 Gln Ala Leu Ser Thr Ile Ser Gln Val Arg Asp Ala Ser Gln Thr
 275 280 285
 Val Thr His Ala Ala Gln Glu Ile Ala Ser Gly Asn Ile Asp Leu Ala
 290 295 300
 Ser Arg Thr Glu Gln Gln Ala Ser Ala Leu Thr Gln Thr Ala Ala Ser
 305 310 315 320
 Met Glu Glu Leu Ser Ala Thr Val Ala Asn Asn Thr Asp Asn Val Phe
 325 330 335
 Gln Ala Gly Lys Leu Val Gln Asp Ala Val Lys Asn Ala His Thr Gly
 340 345 350
 Glu Ala Val Thr Arg Glu Val Ile Glu Thr Met Ser Thr Ile Ala Ser
 355 360 365
 Asn Ser Lys Arg Ile Glu Asp Ile Thr Ser Val Ile Asn Ser Ile Ala
 370 375 380
 Phe Gln Thr Asn Ile Leu Ala Leu Asn Ala Ala Val Glu Ala Ala Arg
 385 390 395 400
 Ala Gly Ala Gln Gly Arg Gly Phe Ala Val Val Ala Ser Glu Val Arg
 405 410 415
 Thr Leu Ala Gln Lys Ser Ala Val Ala Lys Asp Ile Glu Ser Leu
 420 425 430
 Ile Ala Gln Ser Val Ser Ser Val Lys Asn Gly Ala Glu Leu Val Asn
 435 440 445
 Arg Ser Gly Glu Val Ile Asp Ser Ile Ile Ser Ser Val Asn Lys Val
 450 455 460
 His Met Leu Met Glu Gln Ile Ser Val Ala Ser Glu Glu Gln Ser Arg
 465 470 475 480
 Gly Ile Gly Gln Val Gly Gln Ala Val Thr Glu Met Asp Gly Val Thr
 485 490 495
 Gln Gln Asn Ala Ala Leu Val Gln Gln Ser Ala Ala Ala Ala Ser
 500 505 510
 Leu Glu Glu Gln Ala Gln Gln Leu Ser Gln Ser Ile Ser Arg Phe Ser
 515 520 525
 Leu Pro Ala Thr Ala
 530

<210> 7210

<211> 291

<212> PRT

<213> Enterobacter cloacae

<400> 7210

Glu Arg Val Ser Phe Gln Pro Arg Gly Glu Asp Leu Ala Gly Thr Gly
 1 5 10 15
 Gly Gly Val Tyr Asp Val Lys Trp Asn Asp Thr Leu Arg Ser Asn Phe
 20 25 30
 Ser Leu Tyr Gly Arg Asn Phe Gly Ser Glu Glu Glu Ile Asp Asn Asn
 35 40 45
 Val Gln Asn Tyr Ile Leu Ser Met Asn His Phe Ala Gly Pro Val Gln
 50 55 60
 Met Met Val Ser Gly Leu Arg Ala Lys Asp Asn Asp Asp Arg Lys Asp
 65 70 75 80

Ser Asn Gly Asp Pro Ile Lys Thr Asp Ala Ala Asn Asn Gly Val His
 85 90 95
 Ala Leu Val Gly Leu His Asn Glu Ser Phe Tyr Gly Leu Arg Glu Gly
 100 105 110
 Ser Ala Lys Thr Ala Leu Leu Tyr Gly His Gly Leu Gly Ala Glu Val
 115 120 125
 Lys Ser Ile Gly Ser Asp Gly Ala Leu Leu Ser Glu Ala Asp Thr Trp
 130 135 140
 Arg Phe Ala Ser Tyr Gly Val Thr Pro Leu Gly Gly Gly Trp His Ile
 145 150 155 160
 Ala Pro Ala Val Leu Ala Gln Ser Ser Lys Asp Arg Tyr Val Lys Gly
 165 170 175
 Asp Ser Tyr Glu Trp Val Thr Leu Asn Thr Arg Leu Ile Lys Glu Val
 180 185 190
 Thr Gln Asn Phe Ala Leu Ala Phe Glu Gly Ser Tyr Gln Tyr Met Asp
 195 200 205
 Leu Ser Pro Glu Gly Tyr Lys Asp Arg Asn Ala Val Asn Gly Ser Phe
 210 215 220
 Tyr Lys Leu Thr Phe Ala Pro Thr Leu Lys Ala Gly Lys Ile Gly Asp
 225 230 235 240
 Phe Phe Ser Arg Pro Glu Leu Arg Leu Phe Ala Thr Trp Met Asp Trp
 245 250 255
 Ser Asn Lys Leu Asp Asn Tyr Ala Ser Asp Asp Ala Phe Gly Ser Thr
 260 265 270
 Gly Phe Asn Ala Gly Gly Glu Trp Asn Phe Gly Val Gln Met Glu Thr
 275 280 285
 Trp Phe
 290

<210> 7211

<211> 479

<212> PRT

<213> Enterobacter cloacae

<400> 7211

Pro Phe Thr Leu Pro His Arg Gly Gly Val Ser Asn Thr Ile Lys Arg
 1 5 10 15
 Gly Gln Glu Glu Val Ser Met Asp Phe Asn His Ile Ala Arg Glu Leu
 20 25 30
 Ile Pro Leu Leu Gly Gly Lys Glu Asn Ile Ala Ser Ala Ala His Cys
 35 40 45
 Ala Thr Arg Leu Arg Leu Val Leu Val Asp Asp Ala Leu Ala Asp Gln
 50 55 60
 Gln Ala Ile Gly Lys Val Glu Gly Val Lys Gly Cys Phe Arg Asn Ala
 65 70 75 80
 Gly Gln Met Gln Val Ile Phe Gly Thr Gly Val Val Asn Lys Val Tyr
 85 90 95
 Ala Ala Phe Ile Gln Ala Ala Gly Ile Ser Glu Ser Ser Lys Ser Glu
 100 105 110
 Ala Ala Asp Ile Ala Ala Arg Lys Leu Asn Pro Phe Gln Arg Ile Ala
 115 120 125
 Arg Leu Leu Ser Asn Ile Phe Val Pro Ile Ile Pro Ala Ile Val Ala
 130 135 140
 Ser Gly Leu Leu Met Gly Leu Leu Gly Met Val Lys Thr Tyr Gly Trp
 145 150 155 160
 Val Asn Pro Asp Asn Ala Leu Tyr Ile Met Leu Asp Met Cys Ser Ser
 165 170 175
 Ala Ala Phe Ile Ile Leu Pro Ile Leu Ile Gly Phe Thr Ala Ala Arg
 180 185 190
 Glu Phe Gly Gly Asn Pro Tyr Leu Gly Ala Thr Leu Gly Gly Ile Leu
 195 200 205

Thr His Pro Ala Leu Thr Asn Ala Trp Gly Val Ala Ser Gly Phe His
 210 215 220
 Thr Met Asn Phe Phe Gly Leu Glu Ile Ala Met Ile Gly Tyr Gln Gly
 225 230 235 240
 Thr Val Phe Pro Val Leu Leu Ala Val Trp Phe Met Ser Ile Val Glu
 245 250 255
 Lys Gln Leu Arg Arg Ala Ile Pro Asp Ala Leu Asp Leu Ile Leu Thr
 260 265 270
 Pro Phe Leu Thr Val Ile Ile Ser Gly Phe Ile Ala Leu Leu Ile Ile
 275 280 285
 Gly Pro Ala Gly Arg Ala Leu Gly Asp Gly Ile Ser Phe Ile Leu Ser
 290 295 300
 Thr Leu Ile Ala His Ala Gly Trp Leu Ala Gly Leu Leu Phe Gly Gly
 305 310 315 320
 Leu Tyr Ser Val Ile Val Ile Thr Gly Ile His His Ser Phe His Ala
 325 330 335
 Ile Glu Ala Gly Leu Leu Gly Asn Pro Ser Ile Gly Val Asn Phe Leu
 340 345 350
 Leu Pro Ile Trp Ala Met Ala Asn Val Ala Gln Gly Gly Ala Cys Leu
 355 360 365
 Ala Val Trp Phe Lys Thr Arg Asp Ala Lys Ile Lys Ala Ile Thr Leu
 370 375 380
 Pro Ser Ala Phe Ser Ala Met Leu Gly Ile Thr Glu Ala Ala Ile Phe
 385 390 395 400
 Gly Ile Asn Leu Arg Phe Val Lys Pro Phe Ile Ala Ala Leu Ile Gly
 405 410 415
 Gly Ala Ala Gly Gly Ala Trp Val Val Ser Val His Val Tyr Met Thr
 420 425 430
 Ala Val Gly Leu Thr Ala Ile Pro Gly Met Ala Ile Val Gln Ala Ser
 435 440 445
 Ser Leu Leu Asn Tyr Ile Ile Gly Met Val Ile Ala Phe Gly Val Ala
 450 455 460
 Phe Thr Val Ser Leu Leu Leu Lys Tyr Lys Thr Asp Ser Glu
 465 470 475

<210> 7212

<211> 341

<212> PRT

<213> Enterobacter cloacae

<400> 7212

Val Val Val Arg Lys Thr Lys Arg Val Thr Ile Lys Asp Ile Ala Glu
 1 5 10 15
 Leu Ala Gly Val Ser Lys Ala Thr Ala Ser Leu Val Leu Asn Gly Arg
 20 25 30
 Ser Lys Glu Leu Arg Val Ala Glu Thr Arg Glu Arg Val Leu Ala
 35 40 45
 Ile Ala Lys Glu His His Tyr Gln Pro Ser Ile His Ala Arg Ser Leu
 50 55 60
 Arg Asp Asn Arg Ser His Thr Ile Gly Leu Val Val Pro Glu Ile Thr
 65 70 75 80
 Asn Tyr Gly Phe Ala Val Phe Ser His Glu Leu Glu Thr Leu Cys Arg
 85 90 95
 Glu Ala Gly Val Gln Leu Leu Ile Ser Cys Ser Asp Glu Asn Pro Gly
 100 105 110
 Gln Glu Thr Val Val Val Asn Asn Met Val Ala Arg Gln Val Asp Gly
 115 120 125
 Leu Ile Val Ala Ser Ser Met Leu Asn Asp Ala Asp Tyr Gln Lys Leu
 130 135 140
 Ser Glu Gln Leu Pro Val Val Leu Phe Asp Arg His Met Asn Asp Ser
 145 150 155 160

Thr Leu Pro Leu Val Leu Thr Asp Ser Ile Thr Pro Thr Ala Thr Leu
 165 170 175
 Val Ala Asp Ile Ala Arg Lys His Pro Asp Glu Phe Tyr Phe Leu Gly
 180 185 190
 Gly Gln Pro Arg Leu Ser Pro Thr Arg Asp Arg Leu Glu Gly Phe Lys
 195 200 205
 Gln Gly Leu Arg Asp Ala Gly Val Glu Leu Arg Pro Glu Trp Ile Ile
 210 215 220
 His Gly Asn Tyr His Pro Ser Ser Gly Tyr Glu Met Phe Ala Glu Leu
 225 230 235 240
 Cys Ala Arg Leu Gly Arg Pro Pro Lys Ala Leu Phe Thr Ala Ala Cys
 245 250 255
 Gly Leu Leu Glu Gly Val Leu Arg Tyr Met Gly Gln His Asn Leu Leu
 260 265 270
 Gln Ser Asp Met Arg Leu Ala Ser Phe Asp Asp His Tyr Leu Tyr Asp
 275 280 285
 Ser Leu Thr Ile Pro Val Asp Thr Val Arg Gln Asp Asn Arg Gln Leu
 290 295 300
 Ala Trp His Cys Phe Asp Leu Ile Gly Lys Leu Ile Glu Gly Glu Thr
 305 310 315 320
 Pro Glu Pro Ile Gln Arg Lys Leu Asp Ala Thr Leu Gln Arg Arg Tyr
 325 330 335
 Lys Ala Val Glu
 340

<210> 7213

<211> 279

<212> PRT

<213> Enterobacter cloacae

<400> 7213

Ser Val Asp Arg Ala Ile Asn Phe Asp His Ser Glu Lys Gln Tyr Leu
 1 5 10 15
 Arg Gly Val Val Met Leu Gln Arg Leu Ala Lys Lys Lys Val Leu Leu
 20 25 30
 Leu Ser Ala Leu Met Val Ser Gly Leu Val Arg Ala Glu Glu Ser Leu
 35 40 45
 Pro Asp Val Val Lys His Phe Ser Glu Gln Gln Asp Ile Lys Ile Ile
 50 55 60
 Lys Lys Ile Asp Ala Pro Gly Gly Ala Pro Ala Trp Leu Gly Gln Tyr
 65 70 75 80
 Gln Asp Met Gly Val Thr Leu Phe Leu Thr Pro Asp Gly Lys His Val
 85 90 95
 Val Ser Gly Tyr Leu Tyr Asp Glu Lys Gly Thr Asn Leu Ser Glu Ala
 100 105 110
 Phe Phe Gln Lys Glu Ile Tyr Ala Pro Met Gly Arg Glu Met Trp Lys
 115 120 125
 Lys Leu Asn Ala Ala His Pro Leu Lys Glu Gly Ala Glu Ser Ala Pro
 130 135 140
 Arg Lys Val Phe Val Phe Ala Asp Pro Phe Cys Pro Tyr Cys Lys Gln
 145 150 155 160
 Phe Trp Ala Glu Ala Gln Pro Trp Val Lys Ala Gly Lys Val Gln Leu
 165 170 175
 Asn Thr Leu Leu Val Ala Phe Leu Asn Pro Asn Ser Gly Arg Asn Ala
 180 185 190
 Ser Ala Ile Leu Asn Ala Lys Asp Pro Val Ser Ala Trp Lys Ala Tyr
 195 200 205
 Glu Leu Ser Gly Gly Lys Lys Leu Pro Lys Pro Glu Gly Ala Ala Ser
 210 215 220
 Arg Glu Thr Val Glu Ile Leu Gln Asn His Gln Thr Leu Met Asp Ser
 225 230 235 240

Leu Gly Ala Asn Ala Thr Pro Ala Ile Tyr Tyr Leu Asn Glu Gln Asn
 245 250 255
 Glu Leu Gln Gln Val Val Gly Met Pro Asp Ala Lys Gln Leu Glu Ala
 260 265 270
 Met Phe Gly Pro Lys Pro
 275

<210> 7214

<211> 197

<212> PRT

<213> Enterobacter cloacae

<400> 7214

Arg Cys Glu Ser Ala Gly Ser Arg Val Ser Asp Met Lys Ala Gly Glu
 1 5 10 15
 Ala Gly Glu Ser Leu Leu Ile Ser Ala Leu Asn Ala Cys Arg Arg Arg
 20 25 30
 Leu Lys Ala Phe Ile Arg Gly Arg Thr Ala Val Arg Asp Asp Val Asp
 35 40 45
 Asp Ile Leu Gln Glu Val Thr Trp Gln Leu Met Lys Val Glu Gln Pro
 50 55 60
 Val Glu Asn Val Ala Ala Trp Leu Phe Arg Ala Ala Arg Asn Glu Met
 65 70 75 80
 Ile Asp Arg Ala Arg Lys Lys His Glu Val Ser Leu Pro Gly Tyr Leu
 85 90 95
 Thr Ala Asp Asp Glu Asp Phe Pro Glu Gln Glu Ile Ala Glu Thr Leu
 100 105 110
 Phe Gly Val Pro Gln Thr Pro Glu Glu Tyr Leu Asn Met Leu Leu
 115 120 125
 Trp Glu Glu Leu Gly Gln Ala Leu Ser Glu Leu Pro Pro Pro Gln Arg
 130 135 140
 Glu Val Phe Glu Lys Thr Glu Phe Glu Gly Tyr Ser Met Lys Val Leu
 145 150 155 160
 Ala Glu Glu Thr Gly Asp Ser Val Gln Ala Leu Leu Ser Arg Lys His
 165 170 175
 Lys Ala Val Arg Phe Leu Arg Ser Arg Leu Lys Asp Ile Tyr Glu Ala
 180 185 190
 Leu Thr Gly Gln
 195

<210> 7215

<211> 298

<212> PRT

<213> Enterobacter cloacae

<400> 7215

Arg His Gly Met Gln Phe Arg Leu Met Arg Asn Phe Ile Val Val Ala
 1 5 10 15
 Glu Glu Leu His Met His Arg Ala Ala Glu Arg Leu Asn Met Ala Gln
 20 25 30
 Pro Ala Leu Ser Gln Gln Ile Lys Thr Leu Glu Asp Arg Leu Gly Val
 35 40 45
 Met Leu Phe Ser Arg Ala Asn Arg Arg Leu Thr Leu Thr Pro Ala Gly
 50 55 60
 Glu Ala Phe Leu Ser Lys Ala Arg Val Ala Ile Leu Met Thr Asp Gln
 65 70 75 80
 Ala Ile Leu Asp Ala Arg Gln Thr Ala Arg Gly Glu Gln Gly Val Leu
 85 90 95
 Asn Leu Gly Cys Val Ser Ser Ala Ile Phe Asp Ser Lys Leu Pro Ala
 100 105 110
 Ala Leu Arg Leu Leu His Glu Lys Trp Pro Ala Ile Ser Leu Ser Met

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      115              120              125
Met Thr Gly Asn Val Gln Thr Leu Tyr Thr Gly Val Gln Ser Asn Gln
  130              135              140
Leu Asp Val Ala Ile Ile Arg Ala Pro Leu Pro Leu Leu Pro Asp Asp
 145              150              155              160
Leu Gln Ser Arg Pro Phe Thr Thr Glu Lys Ala Val Leu Ala Leu Pro
      165              170              175
Arg Gln His Ser Leu Ala Gly Ser Ala Ala Leu Thr Leu Ala Ser Val
      180              185              190
Lys Glu Glu Lys Trp Ile Ala Leu Arg Asp Pro Glu Gly Met Gly Leu
      195              200              205
Glu Gln Tyr Phe Tyr Asp Ala Cys His Ser Ala Gly Ile Gln Pro Asp
  210              215              220
Val Val Gln Asn Ala Thr Asp Val Pro Thr Val Ile Ser Leu Val Ser
 225              230              235              240
Ala Gly Phe Gly Ile Ala Met Leu Pro Ala Ser Ala Lys Ala Ile Cys
      245              250              255
Val Gln Asn Val Val Phe Val Asp Ile Leu Asp Arg Leu Arg Glu Ser
      260              265              270
Glu Leu Thr Leu Val Cys His Arg Ile Ile Arg Ser Glu Val Leu Lys
      275              280              285
Lys Leu Met Ser Ile Leu Asp His Thr
  290              295

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<210> 7216

<211> 516

<212> PRT

<213> Enterobacter cloacae

<400> 7216

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Met Met Gln Leu Ile Ala Leu Phe Val Arg Leu Arg Met Asp Ala Phe
 1      5      10      15
Ile Arg Gly Gly Lys Asn Met Glu Asn His Ile Asn Asp Leu Arg Ser
      20      25      30
Ala Ile Glu Leu Leu Lys Arg His Glu Gly Gln Tyr Leu Glu Thr Ser
      35      40      45
His Pro Val Asp Pro Asp Ala Glu Leu Ala Gly Val Tyr Arg His Ile
      50      55      60
Gly Ala Gly Gly Thr Val Lys Arg Pro Thr Arg Ile Gly Pro Ala Met
 65      70      75      80
Met Phe Asn Ala Ile Lys Gly Tyr Pro Asp Ser Arg Ile Leu Val Gly
      85      90      95
Met His Ala Ser Arg Glu Arg Ala Ala Leu Leu Leu Gly Cys Asp Pro
      100      105      110
Ser Glu Leu Ala Lys His Val Gly Gln Ala Val Lys Asn Pro Ile Ala
      115      120      125
Pro Val Val Val Pro Ala Ala Gln Ala Pro Cys Gln Glu Gln Val Phe
      130      135      140
Tyr Ala Asp Asn Pro Asp Phe Asp Leu Arg Lys Leu Leu Pro Ala Pro
 145      150      155      160
Thr Asn Thr Pro Ile Asp Ala Gly Pro Phe Phe Cys Leu Gly Leu Val
      165      170      175
Leu Ala Ser Asp Pro Glu Asp Ala Ser Leu Thr Asp Val Thr Ile His
      180      185      190
Arg Leu Cys Val Gln Glu Arg Asp Glu Leu Ser Met Phe Leu Ala Ala
      195      200      205
Gly Arg His Ile Glu Val Phe Arg Lys Lys Ala Glu Glu Ala Gly Lys
  210      215      220
Pro Leu Pro Val Thr Ile Asn Met Gly Leu Asp Pro Ala Ile Tyr Ile
 225      230      235      240
Gly Ala Cys Phe Glu Ala Pro Thr Thr Pro Phe Gly Tyr Asn Glu Leu

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245 250 255
 Gly Val Ala Gly Ala Leu Arg Gln Thr Pro Val Glu Leu Val Gln Gly
 260 265 270
 Val Ala Val Asn Glu Lys Ala Ile Ala Arg Ala Glu Ile Ile Glu
 275 280 285
 Gly Glu Leu Leu Pro Gly Val Arg Val Glu Glu Asp Gln His Thr His
 290 295 300
 Thr Gly His Ala Met Pro Glu Phe Pro Gly Tyr Cys Gly Glu Ala Asn
 305 310 315 320
 Pro Ser Leu Pro Val Ile Lys Val Lys Ala Val Thr Met Arg His Gln
 325 330 335
 Ala Ile Leu Gln Thr Leu Val Gly Pro Gly Glu Glu His Thr Thr Leu
 340 345 350
 Ala Gly Leu Pro Thr Glu Ala Ser Ile Arg Asn Ala Val Glu Glu Ala
 355 360 365
 Ile Pro Gly Phe Leu Gln Asn Val Tyr Ala His Thr Ala Gly Gly Gly
 370 375 380
 Lys Phe Leu Gly Val Leu Gln Val Lys Lys Arg Gln Pro Ser Asp Glu
 385 390 395 400
 Gly Arg Gln Gly Gln Ala Ala Leu Ile Ala Leu Ala Thr Tyr Ser Glu
 405 410 415
 Leu Lys Asn Ile Ile Leu Val Asp Glu Asp Val Asp Ile Phe Asp Ser
 420 425 430
 Asp Asp Ile Leu Trp Ala Met Thr Thr Arg Met Gln Gly Asp Val Ser
 435 440 445
 Ile Thr His Leu Pro Gly Ile Arg Gly His Gln Leu Asp Pro Ser Gln
 450 455 460
 Ala Pro Asp Tyr Ser Pro Ser Ile Arg Gly Asn Gly Ile Thr Cys Lys
 465 470 475 480
 Thr Ile Phe Asp Cys Thr Val Pro Trp Ala Leu Lys Ser Arg Phe Glu
 485 490 495
 Arg Ala Pro Phe Met Glu Val Asp Pro Thr Pro Trp Ala Pro Glu Leu
 500 505 510
 Phe Lys Lys
 515

<210> 7217

<211> 369

<212> PRT

<213> Enterobacter cloacae

<400> 7217

Arg Arg Tyr Arg Arg Ala Val Lys His Pro Leu Arg Pro Ile His Ser
 1 5 10 15
 Met Asp Arg Ser His Ser Leu Pro Gly Gly Ser Gln Lys Ser Gln Leu
 20 25 30
 Asn Tyr Asp Glu Leu Thr Ile Glu Glu Pro Ile Met Phe Thr Val Lys
 35 40 45
 Lys Leu Ala Ile Ser Thr Leu Leu Ala Gly Ser Val Leu Phe Phe Pro
 50 55 60
 Ala Ile His Ala Val Ala Ser Val Pro Gln His Val Val Lys Gln Gln
 65 70 75 80
 Ala Gly Gly Tyr Ser Val Gln Val Gly Asp Thr Ile Val Thr Ala Phe
 85 90 95
 Thr Asp Gly Ser Val Pro Gln Asp Leu His Ala Leu Leu Arg Arg Thr
 100 105 110
 Thr Ala Glu Asn Thr Asp Ala Leu Leu Ala Lys Asn Phe Gln Ala Asn
 115 120 125
 Pro Val Glu Ala Ser Ile Asn Ala Phe Tyr Ile Ala Ile Pro Gly His
 130 135 140
 Lys Ile Leu Val Asp Thr Gly Ser Gly Gln Leu Phe Gly Pro Gly Lys

145 150 155 160
 Gly Gly Arg Leu Ile Glu Ser Leu Ala Thr Gln Gly Ile Lys Pro Glu
 165 170 175
 Asp Ile Thr Asp Ile Leu Ile Thr His Ala His Ser Asp His Ala Gly
 180 185 190
 Gly Leu Val Lys Asp Gly Gln Arg Val Phe Thr Arg Ala Gln Val Tyr
 195 200 205
 Val Gly Lys Pro Asp Ile Asp Phe Phe Phe Asn Asp Glu Asn Gln Lys
 210 215 220
 Lys Ser Gly Tyr Asp Gln Asn Tyr Phe Asp Val Ala His Lys Thr Leu
 225 230 235 240
 Lys Pro Tyr Leu Asp Ala Gly Lys Val Thr Thr Phe Ser Gly Thr Glu
 245 250 255
 Gln Leu Leu Pro Gly Ile Ser Gly Thr Val His Pro Gly His Thr Pro
 260 265 270
 Gly Ser Ala Phe Tyr Thr Leu Glu Ser Lys Gly Glu Lys Met Thr Phe
 275 280 285
 Val Gly Asp Ile Ile His Val Ala Ala Val Gln Phe Pro Gln Pro Asn
 290 295 300
 Val Thr Ile Ala Tyr Asp Glu Asp Gln Asp Gly Ala Ala Arg Val Arg
 305 310 315 320
 Asn Ala Ala Phe Ala Glu Phe Val Lys Asn Lys Ala Leu Ile Ala Ala
 325 330 335
 Pro His Leu Pro Phe Pro Gly Ile Gly Tyr Val Thr Lys Gly Glu Arg
 340 345 350
 Asp Gly Tyr Ala Trp Val Pro Val Thr Tyr Thr Asn Arg Asp Ala Lys
 355 360 365

<210> 7218

<211> 123

<212> PRT

<213> Enterobacter cloacae

<400> 7218

Arg His Leu Gln Glu Gly Ala Val Ile Ile Asn Thr Thr Ser Val Gln
 1 5 10 15
 Ala Phe Lys Pro Ser Ala Ile Leu Val Asp Tyr Ala Gln Thr Lys Ala
 20 25 30
 Cys Asn Val Ala Phe Thr Lys Ser Leu Ala Gln Gln Leu Gly Pro Arg
 35 40 45
 Gly Ile Arg Val Asn Ala Val Ala Pro Gly Pro Tyr Trp Thr Pro Leu
 50 55 60
 Gln Ser Ser Gly Gly Gln Pro Gln Ser Lys Val Gln Lys Phe Gly Glu
 65 70 75 80
 Asp Thr Pro Leu Gly Arg Pro Gly Gln Pro Val Glu Ile Ala Pro Leu
 85 90 95
 Tyr Val Leu Phe Ala Ser Asp Thr Cys Ser Tyr Ala Ser Gly Gln Val
 100 105 110
 Trp Cys Ser Asp Gly Gly Thr Gly Val Leu
 115 120

<210> 7219

<211> 312

<212> PRT

<213> Enterobacter cloacae

<400> 7219

Pro Ile Pro Thr Val Thr Gln Asn Lys Met Ser Pro Ser Asp Met Asp
 1 5 10 15

Met Asp Leu Ile Leu Thr Leu Asp Ala Leu Leu Arg Asp Gln Asn Ile
 20 25 30
 Thr His Ala Ala Arg Leu Gly Ile Ser Gln Pro Ala Met Ser Ala
 35 40 45
 Arg Leu Ala Arg Leu Arg Val Leu Phe Gly Glu Pro Leu Phe Val Pro
 50 55 60
 Ser Pro His Gly Arg Gly Val Leu Pro Thr Pro Arg Ala Glu Ala Leu
 65 70 75 80
 Arg Pro Gln Val Ala Thr Val Leu Gln Gly Ile Ser Ala Met Leu Glu
 85 90 95
 Pro Thr Thr Phe Asn Ala Gln Asn Ser Asn Arg Thr Phe Val Ile Ala
 100 105 110
 Leu His Glu Asn Pro Ala Leu Met Leu Gly Ala Glu Leu Gln Asn Gln
 115 120 125
 Ile Ser Ser Ala Ala Pro Gly Ile Arg Leu Arg Phe Ala Leu Pro Glu
 130 135 140
 Thr Gln Leu Leu Pro Ala Gln Met Glu Asn Gly Asp Val Asp Ile Tyr
 145 150 155 160
 Val Gly Val Asn Ala Val Ala His Asp Ala Trp Val Arg Arg Lys Leu
 165 170 175
 Phe Asp Asp Glu Tyr Ala Thr Ala Gln Arg Lys Gly His Pro Arg Gly
 180 185 190
 Thr Gly Pro Met Asp Leu Asp Ser Tyr Cys Ser Leu Ser His Leu Val
 195 200 205
 Val Ser Ser Glu Gly Asp Pro Phe Ala Gly Phe Val Asp Gln His Leu
 210 215 220
 Ala Gly Leu Gly His Gln Arg Asn Val Val Met Ser Thr Gln Ser Tyr
 225 230 235 240
 Ala Met Ala Pro Ala Ile Val Ala Gly Thr Asp Leu Leu Cys Thr Leu
 245 250 255
 Pro Arg Arg Met Leu Leu Arg Phe Thr Gln Thr Leu Asp Ile Phe Pro
 260 265 270
 Pro Pro Leu Asp Leu Pro Pro Ile Val Ile Gly Met Tyr Trp His Pro
 275 280 285
 Lys Asn Ser Gln Asp Pro Ala Asn Arg Trp Leu Arg Glu Gln Leu Leu
 290 295 300
 Gln Ala Ala Gly Arg Gln Val
 305 310

<210> 7220

<211> 478

<212> PRT

<213> Enterobacter cloacae

<400> 7220

Ser Ser Cys Ala Ala Pro His Gly Arg Gly Arg Lys Leu Lys Pro Ser
 1 5 10 15
 Thr Ser Thr Pro Phe Thr Met Thr Val Thr Gly Ser Arg Thr Asn Arg
 20 25 30
 Arg Leu Ile Pro Gly Arg Ile Ala Gly His Pro Gly Ala Asn Thr Gln
 35 40 45
 Met Met Arg His Val Lys Arg Thr Gly Ala Leu Leu Gly Cys Ala Leu
 50 55 60
 Leu Leu Val Ser Cys Thr Ser Lys Pro Pro Lys Ser Leu Val Thr Pro
 65 70 75 80
 Leu Pro Gln Ala Lys Pro Val Gln Gln Thr Asn Glu Pro Met Arg Gly
 85 90 95
 Ile Trp Leu Ala Thr Val Ser Arg Leu Asp Trp Pro Pro Val Ser Ser
 100 105 110
 Val Asn Gly Arg Ser Ala Asp Gln Arg Ile Ala Gln Gln Gln Arg Ala
 115 120 125

Leu Thr Asp Lys Leu Asp Lys Leu Lys Asn Leu Gly Ile Asn Thr Val
 130 135 140
 Phe Phe Gln Val Lys Pro Asp Ser Thr Ala Leu Trp Ala Ser Lys Ile
 145 150 155 160
 Leu Pro Trp Ser Asp Thr Leu Thr Gly Thr Ile Gly Glu Asp Pro Gly
 165 170 175
 Tyr Asp Pro Leu Gln Phe Met Leu Asp Glu Ala His Lys Arg Gly Met
 180 185 190
 Lys Val His Ala Trp Phe Asn Pro Tyr Arg Val Ser Thr Asn Thr Lys
 195 200 205
 Pro Ser Thr Ile Ala Ala Leu Asn Arg Thr Ser Ser Leu His Pro Ser
 210 215 220
 Ser Val Tyr Val Leu His Pro Glu Trp Ile Arg Thr Ser Gly Asp Arg
 225 230 235 240
 Phe Val Leu Asp Pro Gly Ile Pro Glu Val Arg Asp Trp Ile Thr Gln
 245 250 255
 Val Val Met Glu Val Val Asn His Tyr Pro Val Asp Gly Val Gln Phe
 260 265 270
 Asp Asp Tyr Phe Tyr Thr Glu Thr Pro Gly Ser Pro Leu Asn Asp Ala
 275 280 285
 Trp Thr Phe Arg Arg Tyr Gly Glu Gly Phe Ser Ser Lys Ala Asp Trp
 290 295 300
 Arg Arg His Asn Thr Gln Gln Leu Ile Val Gln Val Ser Arg Ala Ile
 305 310 315 320
 Lys Gln Ala Lys Pro Glu Val Glu Phe Gly Val Ser Pro Ala Gly Val
 325 330 335
 Trp Arg Asn Arg Ser Phe Asp Pro Ala Gly Ser Asp Thr Arg Gly Ala
 340 345 350
 Ala Ala Tyr Asp Glu Ser Tyr Ala Asp Thr Arg Lys Trp Val Gln Gln
 355 360 365
 Gly Leu Leu Asp Tyr Ile Ala Pro Gln Ile Tyr Trp Pro Phe Ala Arg
 370 375 380
 Asp Ala Ala Arg Tyr Asp Val Leu Thr Lys Trp Trp Ala Asp Val Val
 385 390 395 400
 Lys Pro Thr His Thr Arg Leu Tyr Ile Gly Ile Ala Phe Tyr Lys Val
 405 410 415
 Gly Ala Pro Ser Arg Asn Glu Pro Asp Trp Thr Val Asn Gly Gly Ile
 420 425 430
 Pro Glu Leu Lys Lys Gln Leu Asp Leu Asn Asp Ser Leu Pro Asp Val
 435 440 445
 Lys Gly Thr Ile Leu Phe Arg Glu Asp Tyr Leu Asn Gln Pro Gln Thr
 450 455 460
 Gln Glu Ala Val Asn Tyr Leu Arg Gly Arg Trp Gly Ser
 465 470 475

<210> 7221

<211> 106

<212> PRT

<213> Enterobacter cloacae

<400> 7221

Leu His Gly Leu Pro Leu His Arg Tyr Gly His Phe Ser Arg His Pro
 1 5 10 15
 Ala Pro Ala Tyr Arg Pro Gly Lys Arg Cys Arg Cys Tyr Ser Pro Pro
 20 25 30
 Ser Arg Ser Ala Leu Pro Cys Trp Arg Pro Ser Gly Ser Gly Pro Lys
 35 40 45
 Pro Val Ala Arg Tyr Gly Arg Pro Gly Arg Tyr Cys Arg Arg Gln Phe
 50 55 60
 Pro Ala Leu His Ala Ser Arg Phe Gly Trp His Arg Ala Pro Glu Lys
 65 70 75 80

Trp Trp Arg Ala Ala Pro Gly Ala Ser Ala Pro Ser Arg Thr Ser Gly
 85 90 95
 Asp Arg Phe His Ser Arg Asn His Ala
 100 105

<210> 7222

<211> 203

<212> PRT

<213> Enterobacter cloacae

<400> 7222

Gln Glu Leu Arg Lys Arg Ser Arg Ile Met Ala Val Gln Thr Lys Val
 1 5 10 15
 Val Arg Phe Phe Met Ala Gly Ala Val Ala Ile Ala Leu Ser Gly Cys
 20 25 30
 Val Thr Val Pro Asp Ala Ile Lys Gly Thr Ser Pro Thr Pro Gln Gln
 35 40 45
 Asp Leu Val Arg Val Met Asn Ala Pro Glu Leu Tyr Val Gly Gln Glu
 50 55 60
 Ala Arg Phe Gly Gly Lys Val Val Glu Val Leu Asn Gln Gln Gly Lys
 65 70 75 80
 Thr Arg Leu Glu Ile Ala Thr Val Pro Leu Asp Asp Gly Ala Arg Pro
 85 90 95
 Val Leu Gly Glu Ala Ser Arg Gly Arg Ile Tyr Ala Asp Val Ser Gly
 100 105 110
 Phe Leu Asp Pro Val Asp Phe Arg Gly Gln Leu Val Thr Val Val Gly
 115 120 125
 Pro Ile Thr Gly Ser Val Ala Gly Lys Ile Gly Asn Thr Pro Tyr Lys
 130 135 140
 Phe Met Thr Met Gln Val Asn Gly Tyr Lys Arg Trp Arg Ile Ala Gln
 145 150 155 160
 Gln Val Val Met Pro Pro Gln Pro Ile Asp Pro Trp Met Trp Gly Pro
 165 170 175
 His Pro Tyr Arg Tyr Gly Tyr Gly Gly Trp Gly Trp Tyr Asn Pro Gly
 180 185 190
 Pro Ala Gln Val Gln Thr Ile Val Thr Glu
 195 200

<210> 7223

<211> 524

<212> PRT

<213> Enterobacter cloacae

<400> 7223

Gln Glu Arg Val Met Glu Phe Leu Met Asp Pro Ser Ile Trp Val Gly
 1 5 10 15
 Leu Leu Thr Leu Val Val Leu Glu Ile Val Leu Gly Ile Asp Asn Leu
 20 25 30
 Val Phe Ile Ala Ile Leu Ala Asp Lys Leu Pro Pro Lys Gln Arg Asp
 35 40 45
 Lys Ala Arg Leu Ile Gly Leu Ser Leu Ala Leu Ile Met Arg Leu Gly
 50 55 60
 Leu Leu Ser Val Ile Ser Trp Met Val Thr Leu Thr Lys Pro Leu Phe
 65 70 75 80
 Thr Val Met Asp Phe Thr Phe Ser Gly Arg Asp Leu Ile Met Leu Val
 85 90 95
 Gly Gly Leu Phe Leu Leu Phe Lys Ala Thr Thr Glu Leu His Glu Arg
 100 105 110
 Leu Glu Asn Arg Gln His Asp Asp Gly His Gly Lys Gly Tyr Ala Ser
 115 120 125
 Phe Trp Val Val Val Leu Gln Ile Val Val Leu Asp Ala Val Phe Ser

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      130                      135                      140
Leu Asp Ala Val Ile Thr Ala Val Gly Met Val Asn His Leu Pro Val
145                      150                      155                      160
Met Met Ala Ala Val Val Ile Ala Met Ala Val Met Leu Leu Ala Ser
      165                      170                      175
Lys Pro Leu Thr Arg Phe Val Asn Gln His Pro Thr Val Val Val Leu
      180                      185                      190
Cys Leu Ser Phe Leu Leu Met Ile Gly Leu Ser Leu Val Ala Glu Gly
      195                      200                      205
Phe Gly Phe His Ile Pro Lys Gly Tyr Leu Tyr Ala Ala Ile Gly Phe
      210                      215                      220
Ser Ile Leu Ile Glu Leu Phe Asn Gln Ile Ala Arg Arg Asn Phe Ile
      225                      230                      235                      240
Lys Gln Gln Ser Asn Gln Pro Leu Arg Ala Arg Thr Ala Asp Ala Ile
      245                      250                      255
Leu Arg Leu Met Gly Gly Arg Arg Gln Val Asn Val Gln Ala Asp Asn
      260                      265                      270
Glu Asn Arg Asn Pro Val Pro Val Pro Glu Gly Ala Phe Val Glu Glu
      275                      280                      285
Glu Arg Tyr Met Ile Asn Gly Val Leu Ser Leu Ala Ser Arg Ser Leu
      290                      295                      300
Arg Gly Ile Met Thr Pro Arg Gly Glu Ile Ser Trp Val Asp Ala Asn
      305                      310                      315                      320
Leu Ser Val Asp Glu Ile Arg Gln Gln Leu Leu Ser Ser Pro His Ser
      325                      330                      335
Leu Phe Pro Val Cys Arg Gly Glu Leu Asp Glu Ile Ile Gly Val Val
      340                      345                      350
Arg Ala Lys Glu Met Leu Val Ala Leu Glu Glu Gly Val Asn Val Glu
      355                      360                      365
Ala Val Ala Ala Ala Ser Pro Ala Ile Val Val Pro Glu Thr Leu Asp
      370                      375                      380
Pro Ile Asn Leu Leu Gly Val Leu Arg Arg Ala Arg Gly Ser Phe Val
      385                      390                      395                      400
Ile Val Thr Asn Glu Phe Gly Val Val Gln Gly Leu Val Thr Pro Leu
      405                      410                      415
Asp Val Leu Glu Ala Ile Ala Gly Glu Phe Pro Asp Ala Asp Glu Thr
      420                      425                      430
Pro Glu Ile Val Ala Asp Gly Asp Gly Trp Leu Val Lys Gly Thr Thr
      435                      440                      445
Asp Leu His Ala Leu Ser His Thr Leu Gly Val Glu Asn Val Val Asn
      450                      455                      460
Asp Asp Glu Asp Ile Ala Thr Val Ala Gly Leu Val Ile Ser Val Asn
      465                      470                      475                      480
Gly Gln Ile Pro Arg Ile Gly Asp Val Leu Glu Leu Pro Pro Leu Gln
      485                      490                      495
Ile Thr Ile Val Glu Ala Asn Asp Tyr Arg Val Asp Met Val Arg Ile
      500                      505                      510
Val Lys Glu His Ser Ala His Asp Glu Glu Glu
      515                      520

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<210> 7224

<211> 402

<212> PRT

<213> Enterobacter cloacae

<400> 7224

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Gly Leu Ser Phe Thr Leu Ile Ala Gln Thr Pro Val Lys Pro Ala Phe
1      5      10      15
Phe Met Gly Ala Asn Lys Arg Glu Ser Asp Leu Asn Tyr Gln Met Ile
      20      25      30
Thr Thr Asn Asp Glu Leu Ala Ser Leu Cys Glu Val Thr Arg Glu Phe

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35 40 45
 Pro Ala Ile Ala Leu Asp Thr Glu Phe Val Arg Thr Arg Thr Tyr Tyr
 50 55 60
 Pro Gln Leu Gly Leu Ile Gln Met Tyr Asp Gly Lys His Val Ser Leu
 65 70 75 80
 Ile Asp Pro Leu Gly Ile Thr Asp Trp Ala Pro Met Arg Glu Leu Leu
 85 90 95
 Leu Asp Thr Ala Val Thr Lys Tyr Leu His Ala Gly Ser Glu Asp Leu
 100 105 110
 Glu Val Phe Leu Asn Thr Phe Gly Ile Met Pro Gln Pro Leu Ile Asp
 115 120 125
 Thr Gln Ile Leu Ala Ala Phe Ser Gly Arg Pro Leu Ser Trp Gly Phe
 130 135 140
 Ala Ala Met Val Glu Glu Tyr Thr Gly Leu Thr Leu Asp Lys Ser Glu
 145 150 155 160
 Ser Arg Thr Asp Trp Leu Ala Arg Pro Leu Thr Ala Arg Gln Leu Glu
 165 170 175
 Tyr Ala Ala Ala Asp Val Phe Tyr Leu Leu Pro Ile Ala Gly Gln Leu
 180 185 190
 Met Lys Glu Ala Glu Ala Ser Gly Trp Leu Ser Ala Ala Leu Asp Glu
 195 200 205
 Cys Arg Met Thr Gln Gln Arg Arg Gln Glu Val Val Asp Pro Lys Glu
 210 215 220
 Ala Trp Arg Asp Ile Thr Asn Ala Trp Gln Leu Arg Thr Arg Gln Leu
 225 230 235 240
 Ala Cys Leu Gln Leu Leu Ala Asp Trp Arg Leu Arg Lys Ala Arg Glu
 245 250 255
 Arg Asp Leu Ala Val Asn Phe Val Val Arg Glu Glu His Leu Trp Ala
 260 265 270
 Val Ala Arg Tyr Met Pro Gly Ser Leu Gly Glu Leu Asp Ser Ile Gly
 275 280 285
 Leu Ser Gly Ser Glu Ile Arg Phe His Gly Lys Thr Leu Leu Ala Leu
 290 295 300
 Val Glu Lys Ala Gln Gln Leu Pro Glu Asp Ala Leu Pro Glu Pro Leu
 305 310 315 320
 Leu Asn Leu Met Asp Met Pro Gly Tyr Arg Lys Ala Phe Lys Asp Ile
 325 330 335
 Lys Ala Leu Val Gln Thr Val Ala Gly Glu Ser Lys Leu Ser Ala Glu
 340 345 350
 Leu Leu Ala Ser Arg Arg Gln Ile Asn Gln Leu Leu Asn Trp His Trp
 355 360 365
 Lys Leu Lys Pro Gln Asn Gly Leu Pro Glu Leu Val Ala Gly Trp Arg
 370 375 380
 Gly Glu Leu Met Ala Glu Arg Leu Asn Thr Leu Leu Glu Gly Tyr Pro
 385 390 395 400
 Arg

<210> 7225

<211> 65

<212> PRT

<213> Enterobacter cloacae

<400> 7225

Gln Glu Leu Thr Met Phe Ala Gly Leu Pro Ser Leu Ser His Asp Gln
 1 5 10 15
 Gln Gln Lys Ala Val Glu Arg Ile Gln Glu Leu Met Ser Gln Gly Met
 20 25 30
 Ser Ser Gly Gln Ala Ile Ser Gln Val Ala Glu Glu Leu Arg Ala Thr
 35 40 45
 His Thr Gly Glu Arg Ile Val Ala Arg Phe Glu Asp Glu Asp Glu Glu

50

55

60

65

<210> 7226

<211> 640

<212> PRT

<213> Enterobacter cloacae

<400> 7226

Glu Asn Thr Val Ala Asp Asp Phe Ser Pro Glu Gly Gln Leu Ala Gln
 1 5 10 15
 Ala Ile Pro Gly Phe Lys Pro Arg Glu Pro Gln Arg Gln Met Ala His
 20 25 30
 Ala Val Ala His Ala Ile Asp Lys Ala Gln Pro Leu Val Val Glu Ala
 35 40 45
 Gly Thr Gly Thr Gly Lys Thr Tyr Ala Tyr Leu Ala Pro Ala Leu Arg
 50 55 60
 Ala Lys Lys Lys Val Ile Ile Ser Thr Gly Ser Lys Ala Leu Gln Asp
 65 70 75 80
 Gln Leu Tyr Ser Arg Asp Leu Pro Thr Val Ala Lys Ala Leu Lys Tyr
 85 90 95
 Lys Gly Arg Leu Ala Leu Leu Lys Gly Arg Ser Asn Tyr Leu Cys Leu
 100 105 110
 Glu Arg Leu Glu Gln Gln Ala Leu Ala Gly Gly Asp Leu Pro Val Gln
 115 120 125
 Thr Leu Ser Asp Val Ile Val Leu Arg Ala Trp Ala Asn Gln Thr Glu
 130 135 140
 Glu Gly Asp Ile Ser Thr Cys Ala Ser Val Pro Glu Asp Ser Pro Ala
 145 150 155 160
 Trp Pro Leu Val Thr Ser Thr Asn Asp Asn Cys Leu Gly Ser Asp Cys
 165 170 175
 Pro Leu Tyr Lys Asp Cys Phe Val Val Lys Ala Arg Lys Thr Ala Met
 180 185 190
 Asp Ala Asp Val Val Val Val Asn His His Leu Phe Leu Ala Asp Met
 195 200 205
 Val Val Lys Asp Ser Gly Phe Gly Glu Leu Ile Pro Glu Ala Glu Val
 210 215 220
 Met Ile Phe Asp Glu Ala His Gln Leu Pro Asp Ile Ala Ser Gln Tyr
 225 230 235 240
 Phe Gly Gln Ser Leu Ser Ser Arg Gln Leu Gln Asp Leu Ala Lys Asp
 245 250 255
 Ile Thr Ile Ala Tyr Arg Thr Glu Leu Lys Asp Thr Gln Gln Leu Gln
 260 265 270
 Lys Cys Ala Asp Arg Leu Ala Gln Cys Ala Gln Asp Phe Arg Leu Gln
 275 280 285
 Leu Gly Glu Pro Gly Tyr Arg Gly Asn Leu Arg Glu Leu Leu Ala Asp
 290 295 300
 Lys Asn Ile Gln Arg Ala Leu Leu Leu Leu Asp Asp Ala Leu Glu Leu
 305 310 315 320
 Cys Tyr Asp Val Ala Lys Leu Ser Leu Gly Arg Ser Ala Leu Leu Asp
 325 330 335
 Ala Ala Phe Glu Arg Ala Thr Leu Tyr Arg Gly Arg Leu Lys Arg Leu
 340 345 350
 Lys Glu Ile Asn Gln Pro Gly Tyr Ser Tyr Trp Tyr Glu Cys Thr Ser
 355 360 365
 Arg His Phe Thr Leu Ala Leu Thr Pro Leu Thr Val Ala Asp Lys Phe
 370 375 380
 Lys Glu Val Met Ala Gln Lys Pro Gly Thr Trp Val Phe Thr Ser Ala
 385 390 395 400
 Thr Leu Ser Val Asn Asp Asp Leu His His Phe Thr Glu Arg Leu Gly

405 410 415
 Ile Glu Gln Ala Glu Ser Leu Leu Leu Pro Ser Pro Phe Asp Tyr Glu
 420 425 430
 Arg Gln Ala Leu Leu Cys Val Pro Arg Asn Leu Pro Leu Pro Asn Gln
 435 440 445
 Pro Gly Ala Ala Arg His Leu Ala Ala Met Leu Lys Pro Met Ile Glu
 450 455 460
 Ala Asn Asn Gly Arg Cys Phe Met Leu Cys Thr Ser His Ala Met Met
 465 470 475 480
 Arg Asp Leu Ala Glu Gln Phe Arg Ala Thr Met Thr Leu Pro Val Leu
 485 490 495
 Leu Gln Gly Glu Thr Ser Lys Gly Gln Leu Leu Gln Gln Phe Val Ser
 500 505 510
 Ala Gly Asn Ala Leu Leu Val Ala Thr Ser Ser Phe Trp Glu Gly Val
 515 520 525
 Asp Val Arg Gly Asp Thr Leu Ser Leu Val Ile Ile Asp Lys Leu Pro
 530 535 540
 Phe Thr Ser Pro Asp Asp Pro Leu Leu Lys Ala Arg Met Glu Asp Cys
 545 550 555 560
 Arg Leu Arg Gly Gly Asp Pro Phe Asp Asp Val Gln Leu Pro Asp Ala
 565 570 575
 Val Ile Thr Leu Lys Gln Gly Val Gly Arg Leu Ile Arg Asp Val Thr
 580 585 590
 Asp Arg Gly Val Leu Val Ile Cys Asp Asn Arg Leu Val Met Arg Pro
 595 600 605
 Tyr Gly Ala Thr Phe Leu Ala Ser Leu Pro Pro Ala Pro Arg Thr Arg
 610 615 620
 Asp Ile Lys Arg Ala Val Arg Phe Leu Ala Asn Pro Thr Ala Glu
 625 630 635 640

<210> 7227

<211> 241

<212> PRT

<213> Enterobacter cloacae

<400> 7227

Leu Thr Ile Ala Arg Ala Arg Arg Leu Met Arg Ile Leu Ala Ile Asp
 1 5 10 15
 Thr Ala Thr Glu Ala Cys Ser Val Ala Leu Trp Asn Asp Gly Thr Ile
 20 25 30
 Phe Ala His Phe Glu Glu Cys Pro Arg Glu His Thr Gln Arg Ile Leu
 35 40 45
 Pro Leu Val Lys Thr Ile Leu Thr Glu Gly Asn Thr Ala Leu Thr Asp
 50 55 60
 Leu Asp Ala Leu Ala Tyr Gly Arg Gly Pro Gly Ser Phe Thr Gly Val
 65 70 75 80
 Arg Ile Gly Ile Gly Ile Ala Gln Gly Leu Ala Leu Gly Ala Asp Leu
 85 90 95
 Pro Met Ile Gly Val Ser Thr Leu Ala Thr Met Ala Gln Gly Ala Trp
 100 105 110
 Arg Met Thr Gly Ala Thr Arg Val Leu Ala Ala Ile Asp Ala Arg Met
 115 120 125
 Gly Glu Val Tyr Trp Ala Glu Tyr Thr Arg Asp Glu Asn Gly Val Trp
 130 135 140
 His Gly Glu Glu Thr Glu Ala Val Leu Lys Pro Glu Ala Val Thr Gly
 145 150 155 160
 Arg Leu Lys Gln Leu Ser Gly Glu Trp Ala Thr Val Gly Thr Gly Trp
 165 170 175
 Ala Ala Trp Pro Glu Met Ala Lys Asp Thr Gly Leu Thr Leu Val Asp
 180 185 190
 Gly Asn Met Leu Leu Pro Ala Ala Glu Asp Met Leu Pro Ile Ala Cys

	195		200		205
Gln	Leu Phe	Ala Ala	Gly Lys	Thr Val	Ala Val
210			215		220
Val	Tyr Leu	Arg Asn	Thr Val	Ala Trp	Lys Lys
225			230		235
					240
					Leu Pro
					Gly Arg
					Glu

<210> 7228

<211> 585

<212> PRT

<213> Enterobacter cloacae

<400> 7228

Tyr	Asn	Val	Asn	Lys	Leu	Phe	Ile	Ile	Gly	Ala	Val	Met	Thr	Thr	Asn
1			5						10					15	
Thr	His	Phe	Arg	Gly	Asp	Ala	Leu	Lys	Lys	Val	Trp	Leu	Asn	Arg	Tyr
			20					25					30		
Pro	Ala	Asp	Val	Pro	Ala	Glu	Ile	Asn	Pro	Asp	Arg	Tyr	Gln	Ser	Leu
		35					40					45			
Ile	Glu	Leu	Phe	Glu	His	Ser	Val	Arg	Arg	Tyr	Ala	Asp	Gln	Pro	Ala
50						55					60				
Phe	Val	Asn	Met	Gly	Glu	Val	Met	Thr	Phe	Arg	Lys	Leu	Glu	Glu	Arg
65				70						75					80
Ser	Arg	Ala	Phe	Ala	Ala	Tyr	Leu	Gln	Glu	Gly	Leu	Gly	Leu	Gln	Lys
				85					90					95	
Gly	Asp	Arg	Val	Ala	Leu	Met	Met	Pro	Asn	Leu	Leu	Gln	Tyr	Pro	Val
			100					105					110		
Ala	Leu	Phe	Gly	Ile	Leu	Arg	Ala	Gly	Met	Ile	Val	Val	Asn	Val	Asn
		115				120						125			
Pro	Leu	Tyr	Thr	Pro	Arg	Glu	Leu	Glu	His	Gln	Leu	Asn	Asp	Ser	Gly
		130				135					140				
Ala	Ala	Ala	Ile	Val	Ile	Val	Ser	Asn	Phe	Ala	His	Thr	Leu	Glu	Lys
145					150				155						160
Val	Val	Glu	Lys	Thr	Gln	Val	Lys	His	Val	Ile	Leu	Thr	Arg	Met	Gly
			165					170						175	
Asp	Gln	Leu	Ser	Thr	Ala	Lys	Gly	Thr	Leu	Val	Asn	Phe	Val	Val	Lys
		180					185						190		
Tyr	Val	Lys	Arg	Leu	Val	Pro	Lys	Thr	His	Leu	Pro	Asp	Ala	Ile	Ser
		195				200						205			
Phe	Arg	Arg	Ala	Leu	His	Ala	Gly	Tyr	Arg	Met	Gln	Tyr	Val	Lys	Pro
	210				215						220				
Glu	Ile	Val	Ser	Glu	Asp	Leu	Ala	Phe	Leu	Gln	Tyr	Thr	Gly	Gly	Thr
225					230				235						240
Thr	Gly	Val	Ala	Lys	Gly	Ala	Met	Leu	Thr	His	Arg	Asn	Met	Leu	Ala
			245					250						255	
Asn	Leu	Glu	Gln	Val	Asn	Ala	Thr	Tyr	Gly	Pro	Leu	Leu	His	Pro	Gly
		260					265						270		
Lys	Glu	Leu	Val	Ile	Thr	Ala	Leu	Pro	Leu	Tyr	His	Ile	Phe	Ala	Leu
		275				280						285			
Thr	Met	Asn	Cys	Leu	Leu	Phe	Ile	Glu	Leu	Gly	Gly	Gln	Asn	Val	Leu
	290				295					300					
Ile	Thr	Asn	Pro	Arg	Asp	Ile	Pro	Gly	Leu	Val	Lys	Glu	Leu	Ala	Lys
305				310					315						320
Tyr	Pro	Phe	Thr	Ala	Met	Thr	Gly	Val	Asn	Thr	Leu	Phe	Asn	Ala	Leu
			325					330						335	
Leu	Asn	Asn	Lys	Glu	Phe	Gln	Gln	Leu	Asp	Phe	Ser	Thr	Leu	His	Leu
		340					345						350		
Ser	Ala	Gly	Gly	Gly	Met	Pro	Val	Gln	Gln	Ala	Val	Ala	Glu	Arg	Trp
	355					360						365			
Val	Lys	Leu	Thr	Gly	Gln	Tyr	Leu	Leu	Glu	Gly	Tyr	Gly	Leu	Thr	Glu

370 375 380
 Cys Ala Pro Leu Val Ser Val Asn Pro His Asp Ile Asp Tyr His Ser
 385 390 395 400
 Gly Ser Ile Gly Leu Pro Val Pro Ser Thr Glu Ala Lys Leu Val Asp
 405 410 415
 Asp Glu Asp Asn Glu Val Pro His Gly Glu Pro Gly Glu Leu Cys Val
 420 425 430
 Arg Gly Pro Gln Val Met Leu Gly Tyr Trp Gln Arg Pro Asp Ala Thr
 435 440 445
 Asp Glu Ile Ile Lys Asp Gly Trp Leu His Thr Gly Asp Ile Ala Val
 450 455 460
 Met Asp Asp Glu Gly Phe Leu Arg Ile Val Asp Arg Lys Lys Asp Met
 465 470 475 480
 Ile Leu Val Ser Gly Phe Asn Val Tyr Pro Asn Glu Ile Glu Asp Val
 485 490 495
 Val Met Gln His Ser Gly Val Leu Glu Val Ala Ala Val Gly Val Pro
 500 505 510
 Ser Gly Ser Ser Gly Glu Ala Val Lys Ile Phe Val Val Lys Lys Asp
 515 520 525
 Pro Ser Leu Thr Glu Asp Ala Leu Ile Thr Phe Cys Arg Arg Gln Leu
 530 535 540
 Thr Gly Tyr Lys Val Pro Lys Leu Val Glu Phe Arg Asp Glu Leu Pro
 545 550 555 560
 Lys Ser Asn Val Gly Lys Ile Leu Arg Arg Glu Leu Arg Asp Glu Ala
 565 570 575
 Arg Ala Lys Val Asp Asn Lys Ala
 580 585

<210> 7229

<211> 90

<212> PRT

<213> Enterobacter cloacae

<400> 7229

Val Met Ala Leu Leu Asp Phe Phe Leu Ser Arg Lys Lys Ser Thr Ala
 1 5 10 15
 Asn Ile Ala Lys Glu Arg Leu Gln Ile Val Ala Glu Arg Arg Arg
 20 25 30
 Ser Asp Ala Glu Pro His Tyr Leu Pro Gln Leu Arg Lys Asp Ile Leu
 35 40 45
 Glu Val Ile Cys Lys Tyr Val Gln Ile Asp Pro Glu Met Val Thr Val
 50 55 60
 Gln Leu Glu Gln Lys Asp Gly Asp Ile Ser Ile Leu Glu Leu Asn Val
 65 70 75 80
 Thr Leu Pro Glu Ala Glu Glu Ser Arg
 85 90

<210> 7230

<211> 322

<212> PRT

<213> Enterobacter cloacae

<400> 7230

Gln Val Thr Ile Ala Ile Val Ile Gly Thr His Gly Trp Ala Ala Glu
 1 5 10 15
 Gln Leu Leu Lys Thr Ala Glu Met Leu Leu Gly Glu Gln Glu Asn Val
 20 25 30
 Gly Trp Ile Asp Phe Val Pro Gly Glu Asn Ala Glu Thr Leu Ile Glu
 35 40 45
 Lys Tyr Thr Ala Gln Leu Glu Lys Leu Asp Thr Ser Lys Gly Val Leu
 50 55 60

Phe Leu Val Asp Thr Trp Gly Gly Ser Pro Phe Asn Ala Ala Ser Arg
 65 70 75 80
 Ile Val Val Asp Lys Glu His Tyr Glu Val Val Ala Gly Val Asn Ile
 85 90 95
 Pro Met Leu Val Glu Thr Phe Met Ala Arg Asp Asp Asn Pro Gly Phe
 100 105 110
 Asp Glu Leu Val Ala Leu Ala Val Glu Thr Gly Arg Glu Gly Val Lys
 115 120 125
 Ala Leu Lys Ala Gln Pro Val Glu Lys Pro Ala Pro Ala Pro Ala Ala
 130 135 140
 Pro Lys Ala Val Ala Pro Ala Lys Pro Met Gly Pro Asn Asp Tyr Met
 145 150 155 160
 Val Ile Gly Leu Ala Arg Ile Asp Asp Arg Leu Ile His Gly Gln Val
 165 170 175
 Ala Thr Arg Trp Thr Lys Glu Thr Asn Val Gln Arg Ile Ile Val Val
 180 185 190
 Ser Asp Glu Val Ala Ala Asp Thr Val Arg Lys Thr Leu Leu Thr Gln
 195 200 205
 Val Ala Pro Pro Gly Val Thr Ala His Val Val Asp Val Ala Lys Met
 210 215 220
 Ile Arg Val Tyr Asn Asn Pro Lys Tyr Ala Gly Glu Arg Val Met Leu
 225 230 235 240
 Leu Phe Thr Asn Pro Thr Asp Val Glu Arg Ile Val Glu Gly Gly Val
 245 250 255
 Lys Ile Thr Ser Val Asn Ile Gly Gly Met Ala Phe Arg Gln Gly Lys
 260 265 270
 Thr Gln Val Asn Asn Ala Ile Ser Val Asp Ala Lys Asp Ile Glu Ala
 275 280 285
 Phe Asn Lys Leu Asn Ala Arg Gly Ile Glu Leu Glu Ala Arg Lys Val
 290 295 300
 Ser Thr Asp Gln Lys Leu Lys Met Met Asp Leu Ile Gly Lys Val Gly
 305 310 315 320
 Lys

<210> 7231

<211> 205

<212> PRT

<213> Enterobacter cloacae

<400> 7231

Ser Glu Ser Tyr Pro Glu Thr Thr Gly Glu Leu Thr Val Lys Lys Asp
 1 5 10 15
 Asn Leu Thr Leu Asp Asp Phe Leu Ser Arg Phe Gln Leu Leu Arg Pro
 20 25 30
 Gln Val Ser Arg Ala Thr Leu Asn Gln Arg Gln Ala Ala Val Leu Ile
 35 40 45
 Pro Val Val Arg Arg Glu Gln Pro Gly Leu Leu Leu Thr Gln Arg Ser
 50 55 60
 Pro His Met Arg Lys His Ala Gly Gln Val Ala Phe Pro Gly Gly Ala
 65 70 75 80
 Val Asp Ser Thr Asp Ala Ser Leu Ile Ala Ala Ala Leu Arg Glu Ala
 85 90 95
 His Glu Glu Val Ala Ile Pro Pro Glu Thr Val Glu Val Ile Gly Val
 100 105 110
 Leu Pro Pro Val Asp Ser Val Thr Gly Phe Gln Val Thr Pro Val Val
 115 120 125
 Gly Ile Ile Pro Pro Asp Leu Gln Tyr His Ala Ser Val Asp Glu Val
 130 135 140
 Ser Ala Val Phe Glu Met Pro Leu Glu Glu Ala Leu Arg Leu Gly Arg
 145 150 155 160

Tyr His Pro Leu Asp Ile His Arg Arg Gly His Asp His Arg Val Trp
 165 170 175
 Leu Ser Trp Tyr Gln His Tyr Phe Val Trp Gly Met Thr Ala Gly Ile
 180 185 190
 Ile Arg Glu Leu Ala Leu Gln Ile Gly Leu Lys Pro
 195 200 205

<210> 7232

<211> 168

<212> PRT

<213> Enterobacter cloacae

<400> 7232

Pro Ser Gly Glu Lys Ser Ser Ala Thr Val Phe Ser His Cys Ile Phe
 1 5 10 15
 Ala Gln Gly Leu Cys Gln Pro Leu Leu Ser Gly Ala Thr Pro Asn Ser
 20 25 30
 Asp Asp Gly Gly Thr Leu Trp Gln Ser Cys Arg Leu Thr Thr Lys Asp
 35 40 45
 Asn Glu Asp Thr Phe Met Thr Ile Thr Arg Ile Asp Ala Glu Ala Arg
 50 55 60
 Trp Ser Asp Val Val Ile His Asn Gln Thr Leu Tyr Tyr Thr Gly Val
 65 70 75 80
 Pro Ala Asn Leu Asp Ala Asp Ala Phe Glu Gln Thr Ala Asn Thr Leu
 85 90 95
 Ala Gln Ile Asp Ala Val Leu Glu Lys Gln Gly Ser Asp Lys Ser Arg
 100 105 110
 Ile Leu Asp Ala Thr Ile Phe Leu Ala Asn Lys Asp Asp Phe Ala Ala
 115 120 125
 Met Asn Lys Ala Trp Asp Ala Trp Val Val Ala Gly His Ala Pro Val
 130 135 140
 Arg Cys Thr Val Gln Ala Thr Leu Met Lys Pro Glu Tyr Lys Val Glu
 145 150 155 160
 Ile Lys Ile Ile Ala Ala Val
 165

<210> 7233

<211> 460

<212> PRT

<213> Enterobacter cloacae

<400> 7233

Ile Ile Arg Ala Asn Tyr Phe Thr Leu Pro Gly Ser Met Pro Tyr Met
 1 5 10 15
 Asn Met Arg Phe Pro Thr Val Met Thr Leu Pro Trp Arg Ala Asp Ala
 20 25 30
 Ala Glu Phe Trp Phe Ala Arg Leu Ser His Leu Pro Phe Ala Met Leu
 35 40 45
 Leu His Ser Gly His Ala Asp His Pro Tyr Ser Arg Phe Asp Ile Leu
 50 55 60
 Val Ala Asp Pro Val Lys Thr Leu Thr Thr Asp Ala Leu Ser Pro Thr
 65 70 75 80
 Asp Asp Pro Leu Met Arg Leu Gln Asn Glu Ile Asp Ala Leu Gly Leu
 85 90 95
 Thr Ala Thr Pro Asp Pro Asp Leu Pro Phe Gln Gly Gly Ala Leu Gly
 100 105 110
 Leu Phe Gly Tyr Asp Leu Gly Arg Arg Phe Glu Lys Leu Pro Glu His
 115 120 125
 Ala Gln Ala Asp Ile Ser Leu Pro Asp Met Ala Val Gly Leu Tyr Asp
 130 135 140
 Trp Ala Leu Ile Val Asp His Arg Lys Gln Thr Val Ser Leu Leu Ser

145 150 155 160
 His Arg Asp Val Gln Ala Arg Leu Ala Trp Leu Glu Ala Gln Arg Pro
 165 170 175
 Ala Ala Pro Glu His Phe Met Leu Thr Ser Gly Trp Arg Ser Asn Met
 180 185 190
 Ser Ala Glu Glu Tyr Ala Glu Lys Phe Ser Arg Val Gln Ala Tyr Leu
 195 200 205
 His Ser Gly Asp Cys Tyr Gln Val Asn Leu Ala Gln Arg Phe Gln Ala
 210 215 220
 Ala Tyr Lys Gly Asp Glu Trp Gln Ala Phe Thr Arg Leu Asn Ala Ser
 225 230 235 240
 Asn Lys Ala Pro Phe Ser Ala Phe Leu Arg Phe Glu His Gly Ala Ile
 245 250 255
 Leu Ser Leu Ser Pro Glu Arg Phe Ile His Leu Ala Asp Gly Met Ile
 260 265 270
 Gln Thr Arg Pro Ile Lys Gly Thr Leu Pro Arg Leu Ala Asn Ala Asp
 275 280 285
 Ala Asp Arg Gln Gln Ala Glu Thr Leu Ala Ala Ser Pro Lys Asp Arg
 290 295 300
 Ala Glu Asn Leu Met Ile Val Asp Leu Met Arg Asn Asp Ile Gly Arg
 305 310 315 320
 Val Ala Glu Pro Gly Ser Val Arg Val Pro Glu Leu Phe Val Val Glu
 325 330 335
 Pro Phe Pro Ala Val His His Leu Val Ser Thr Ile Thr Ala Arg Leu
 340 345 350
 Pro Ala Ser Arg Thr Ala Cys Asp Leu Leu Arg Ala Ala Phe Pro Gly
 355 360 365
 Gly Ser Ile Thr Gly Ala Pro Lys Val Arg Ala Met Glu Ile Ile Asp
 370 375 380
 Glu Leu Glu Pro His Arg Asn Ala Trp Cys Gly Ser Ile Gly Tyr
 385 390 395 400
 Val Ser Leu Cys Gly Thr Met Asp Thr Ser Ile Thr Ile Arg Thr Leu
 405 410 415
 Thr Ala Cys Asp Gly Asn Leu Tyr Cys Ser Ala Gly Gly Gly Ile Val
 420 425 430
 Ala Asp Ser Gln Val Glu Ala Glu Tyr Gln Glu Thr Phe Asp Lys Val
 435 440 445
 Asn Arg Ile Leu Lys Gln Leu Glu Asn Ser Arg
 450 455 460

<210> 7234

<211> 469

<212> PRT

<213> Enterobacter cloacae

<400> 7234

His Arg Tyr Trp Asn Pro Ser Asn Pro Val Arg Ser Val Lys Val Ile
 1 5 10 15
 Ser Ile Phe Asp Met Phe Lys Val Gly Ile Gly Pro Ser Ser Ser His
 20 25 30
 Thr Val Gly Pro Met Lys Ala Gly Lys Gln Phe Val Asp Asp Leu Val
 35 40 45
 Glu Lys Gly Leu Leu Glu Ser Val Thr Arg Val Ala Val Asp Val Tyr
 50 55 60
 Gly Ser Leu Ser Leu Thr Gly Lys Gly His His Thr Asp Ile Ala Ile
 65 70 75 80
 Ile Met Gly Leu Ala Gly Asn Met Pro Asp Thr Val Asp Ile Asp Ala
 85 90 95
 Ile Pro Ala Phe Ile Arg Asp Val Glu Thr Arg Gly Arg Leu Leu Leu
 100 105 110
 Ala Asn Gly Gln His Glu Val Asp Phe Pro Gln Asp Asp Gly Met Arg

115 120 125
 Phe Arg Ser Asp Asn Leu Pro Leu His Glu Asn Gly Met Thr Ile His
 130 135 140
 Ala Trp Ser Gly Glu Lys Glu Ile Tyr Ser Lys Thr Tyr Tyr Ser Ile
 145 150 155 160
 Gly Gly Gly Phe Ile Val Asp Glu Glu His Phe Gly Lys Glu Ser Ala
 165 170 175
 Gly Asp Val Asn Val Pro Tyr Pro Phe Lys Ser Ala Thr Glu Met Leu
 180 185 190
 Gly Tyr Cys Lys Glu Thr Gly Leu Ser Leu Ser Gly Met Val Met Gln
 195 200 205
 Asn Glu Leu Ala Leu His Ser Lys Lys Glu Ile Glu Asp Tyr Phe Ala
 210 215 220
 Asn Val Trp Gln Thr Met Arg Ala Cys Ile Asp Arg Gly Met Asn Thr
 225 230 235 240
 Glu Gly Val Leu Pro Gly Pro Leu Arg Val Pro Arg Arg Ala Ser Ala
 245 250 255
 Leu Arg Arg Met Leu Val Thr Thr Asp Lys Phe Ser Asn Asp Pro Met
 260 265 270
 Asn Val Val Asp Trp Val Asn Met Phe Ala Leu Ala Val Asn Glu Glu
 275 280 285
 Asn Ala Ala Gly Gly Arg Val Val Thr Ala Pro Thr Asn Gly Ala Cys
 290 295 300
 Gly Ile Val Pro Ala Val Leu Ala Tyr Tyr Asp His Phe Ile Glu Pro
 305 310 315 320
 Val Thr Pro Asp Ile Tyr Ile Arg Tyr Phe Leu Ala Ala Gly Ala Ile
 325 330 335
 Gly Ala Leu Tyr Lys Met Asn Ala Ser Ile Ser Gly Ala Glu Val Gly
 340 345 350
 Cys Gln Gly Glu Val Gly Val Ala Cys Ser Met Ala Ala Gly Leu
 355 360 365
 Ala Glu Leu Leu Gly Ala Ser Pro Glu Gln Val Cys Val Ala Ala Glu
 370 375 380
 Ile Gly Met Glu His Asn Leu Gly Leu Thr Cys Asp Pro Val Ala Gly
 385 390 395 400
 Gln Val Gln Val Pro Cys Ile Glu Arg Asn Ala Ile Ala Ser Val Lys
 405 410 415
 Ala Ile Asn Ala Ser Arg Met Ala Met Arg Arg Thr Ser Glu Pro Arg
 420 425 430
 Val Ser Leu Asp Lys Val Ile Glu Thr Met Tyr Glu Thr Gly Lys Asp
 435 440 445
 Met Asn Ala Lys Tyr Arg Glu Thr Ser Arg Gly Gly Leu Ala Ile Lys
 450 455 460
 Val Gln Cys Asp
 465

<210> 7235

<211> 576

<212> PRT

<213> Enterobacter cloacae

<400> 7235

Ala Phe Leu Ser Pro Ile Cys Asn Arg Trp Ala Asn Phe Pro Leu Ser
 1 5 10 15
 Ser Arg Arg Phe Thr Tyr Ser Pro Leu His Cys His Cys Cys Val Trp
 20 25 30
 Leu Phe Trp Pro Val Leu Asn Arg Arg Pro Phe Met Gln Thr Ala Gln
 35 40 45
 Thr Ile Ile Lys Asp Tyr Arg Arg Lys Arg Val Ile Val Cys Val Thr
 50 55 60
 Val Ala Leu Val Thr Leu Val Leu Thr Leu Gly Ile Arg Phe Ile Ser

65					70					75					80
Gln	Arg	Asn	Ile	Asn	Gln	Asp	Arg	Ile	His	Asp	Phe	Thr	His	His	Thr
				85					90					95	
Val	Arg	Ala	Leu	Asp	Lys	Val	Leu	Leu	Ser	Leu	Glu	Ala	Gln	Arg	Glu
			100					105					110		
Thr	Leu	Leu	Ser	Leu	Val	Gly	Ile	Pro	Cys	Ser	Glu	Ala	Asn	Leu	Ile
		115					120					125			
Leu	Arg	Lys	Gln	Ala	Ala	Ile	Leu	Gln	Thr	Val	Arg	Ser	Ile	Ala	Leu
	130					135					140				
Ile	Lys	Asp	Gly	Ile	Leu	Tyr	Cys	Ser	Ser	Val	Phe	Gly	Ser	Arg	Asn
145					150					155					160
Val	Pro	Val	Ser	Glu	Phe	Val	Pro	Glu	Leu	Pro	Val	Ser	Glu	Ser	Arg
				165					170					175	
Leu	Leu	Leu	Ser	Thr	Asp	Arg	Trp	Leu	Val	Lys	Gly	Ser	Pro	Val	Leu
			180					185					190		
Ile	Gln	Trp	Ser	Pro	Val	Ala	Gly	Asp	Gly	Asn	Asp	Gly	Val	Met	Glu
	195						200					205			
Val	Val	Asn	Ile	Asp	Leu	Ile	Thr	Lys	Met	Ile	Leu	Glu	Pro	Gln	Arg
	210					215					220				
Pro	Gln	Ile	Thr	Asp	Val	Val	Leu	Arg	Val	Gly	Asp	Asn	Phe	Leu	Arg
225					230					235					240
Asp	Gly	Gln	Gln	Val	Thr	Thr	Thr	Pro	Thr	Phe	Asp	Glu	Asn	Ala	Ser
				245					250					255	
Leu	Leu	Glu	Gln	Ser	Ser	Gln	His	Tyr	Pro	Phe	Ser	Val	Thr	Val	Ser
			260					265					270		
Gly	Pro	Gly	Pro	Gly	Glu	Met	Ala	Leu	Lys	Asn	Leu	Pro	Thr	Gln	Leu
	275					280						285			
Pro	Leu	Ala	Leu	Met	Leu	Ser	Leu	Leu	Met	Gly	Tyr	Ile	Ala	Trp	Leu
	290					295					300				
Ala	Thr	Ala	Arg	Arg	Ile	Ser	Phe	Thr	Trp	Glu	Ile	Asn	Met	Gly	Ile
305					310					315					320
Ala	Ala	Arg	Glu	Phe	Glu	Leu	Phe	Cys	Gln	Pro	Leu	Val	Asn	Ala	Arg
				325					330					335	
Thr	Arg	Glu	Cys	Val	Gly	Val	Glu	Ile	Leu	Leu	Arg	Trp	Asn	Asn	Pro
			340					345					350		
Arg	Gln	Gly	Trp	Ile	Ser	Pro	Asp	Val	Phe	Ile	Pro	Leu	Ala	Glu	Glu
	355						360					365			
His	Asn	Leu	Ile	Val	Pro	Leu	Thr	Arg	Tyr	Val	Ile	Ser	Glu	Thr	Val
	370					375					380				
Arg	Gln	Ile	Gly	Tyr	Phe	Pro	Ala	Ser	Arg	Asp	Phe	His	Ile	Gly	Ile
385					390					395					400
Asn	Val	Ala	Ala	Ser	His	Phe	Arg	Arg	Ala	Ala	Leu	Ile	Gln	Asp	Leu
				405					410					415	
Asn	Arg	Ile	Trp	Phe	Asn	Ala	Ser	Pro	Val	Gln	Gln	Leu	Ile	Val	Glu
			420					425					430		
Leu	Thr	Glu	Arg	Asp	Ala	Leu	Leu	Asp	Val	Asp	Tyr	Arg	Ile	Val	Arg
	435						440					445			
Glu	Leu	His	Arg	Lys	Gly	Val	Lys	Leu	Ala	Ile	Asp	Asp	Phe	Gly	Thr
	450					455					460				
Gly	Asn	Ser	Ser	Leu	Ser	Trp	Leu	Glu	Lys	Leu	His	Pro	Asp	Val	Leu
465					470					475					480
Lys	Ile	Asp	Lys	Ser	Phe	Thr	Thr	Ala	Ile	Gly	Thr	Asp	Ala	Val	Asn
				485					490					495	
Ser	Thr	Val	Thr	Asp	Ile	Ile	Ile	Ala	Leu	Gly	Gln	Arg	Leu	Asn	Ile
			500					505					510		
Glu	Leu	Val	Ala	Glu	Gly	Val	Glu	Thr	Glu	Glu	Gln	Ser	Arg	Tyr	Leu
	515						520					525			
Arg	Arg	His	Ser	Val	His	Ile	Leu	Gln	Gly	Tyr	Leu	Tyr	Ala	Arg	Pro
	530					535					540				
Met	Pro	Leu	Arg	Glu	Phe	Pro	Lys	Trp	Leu	Ala	Glu	Ser	His	Ser	Pro
545					550					555					560

Pro Ala Arg His Asn Gly His Ile Val Pro Leu Leu Pro Leu Arg
 565 570 575

<210> 7236

<211> 191

<212> PRT

<213> Enterobacter cloacae

<400> 7236

Leu Arg Ser Asn Ile Leu Ser Ser Ser Ala Arg Asn Leu Phe Lys Ile
 1 5 10 15
 Leu Ser Ser Phe Leu Ile Gln Lys Asn Pro His His Glu Glu Val Cys
 20 25 30
 Val His Glu Glu Thr Thr Ala Gly Leu Trp Ala Pro Leu Pro Asp Ser
 35 40 45
 His Val Val Leu Phe Leu Asp Phe Asp Gly Val Cys His Arg Cys Lys
 50 55 60
 Asn Glu Thr Phe Glu Arg Met Pro Leu Leu Glu Lys Leu Leu Asp Asn
 65 70 75 80
 Cys Pro Ala Met Val Ile Val Ile Ser Ser Trp Arg Glu Cys Ala
 85 90 95
 Asn Thr Ser Tyr Leu Lys Ser Leu Phe Arg Val Pro Tyr Arg Asp Lys
 100 105 110
 Ile Ile Gly Ala Thr Gly Ser Val Tyr Leu Lys His Gly Gln Thr Gly
 115 120 125
 Val Arg Ala Ala Glu Cys Glu Asp Phe Val Phe Ser His Arg Val Lys
 130 135 140
 Ala Phe Ile Cys Leu Asp Asp Asp Glu Ser Leu Phe Pro Ala Gly Tyr
 145 150 155 160
 Pro His Leu His Lys Thr Asp Tyr Tyr Thr Gly Leu Thr Glu Ser Asp
 165 170 175
 Leu Ala Ala Leu Asn Ala Arg Tyr His Gln Leu Met Gly Arg
 180 185 190

<210> 7237

<211> 264

<212> PRT

<213> Enterobacter cloacae

<400> 7237

Ile Arg Gln Glu Arg Asp Ile Met Leu His His Cys Gln Ala Lys Ser
 1 5 10 15
 Leu Asp Asp Ile Tyr Leu Glu Asp Ile Pro His Ile Ile His Pro Ala
 20 25 30
 Thr Ala Val His Asp Leu Glu Asp Thr Ala Leu Pro Asn Arg Ile Ile
 35 40 45
 Gln Glu Trp Asn Leu Pro Gln Gly Tyr Thr Gln Phe Val Ser Arg Tyr
 50 55 60
 His Gln Phe His His Gln Arg Pro Trp Leu Ala Tyr Arg Asp Thr Leu
 65 70 75 80
 Asp Asp Ile Arg Tyr Gly Lys Ile Val Leu Leu Arg Lys Asp Ile Thr
 85 90 95
 Gly Asn Ala Gly Pro Gly Val Ile Ser Asn Gly Asn Leu Arg Asn Asp
 100 105 110
 Leu Pro Leu Ser Leu Phe Thr Arg Leu Arg Asp Ile Ile Ser Arg Gln
 115 120 125
 Leu Lys Arg Pro Gly Tyr Tyr Val Arg Ser Thr Thr Pro Ala Gln His
 130 135 140
 Ala Gln Ser Thr Lys Thr Ile Asn Ser Lys Ala Ala Gly Arg Leu Leu
 145 150 155 160
 Ala Ala Gly Gly Leu Tyr Asn Gly Asn Val Glu Gly Phe Arg His Thr

```

                165                170                175
Ala Glu Gln Leu Gly Gly Glu Ala Val Glu Gly Tyr Asp Gln Val Leu
                180                185                190
Asn Glu Thr Thr Ser Gly Met Leu Val Ala Ala Ala Ser Leu Leu Val
                195                200                205
Ile Arg Asn Pro Arg Ser Ala Asp Glu Leu Thr Ser Tyr Leu Gly Lys
                210                215                220
Tyr Lys Lys Ala His Val Leu Leu Asp Asp Met Asn Val Ser Glu Leu
225                230                235                240
Asn Tyr Met Arg Arg Asp Arg Ala Glu Tyr Leu Pro Leu Arg Gly Thr
                245                250                255
Ile Gln Gln Tyr Cys Thr Pro
                260

```

<210> 7238

<211> 165

<212> PRT

<213> Enterobacter cloacae

<400> 7238

```

Ser Phe Leu Phe Asn Ser Gln Tyr Cys Leu Tyr Ile Gln Tyr Lys Asn
1                5                10                15
Ser Ser Val Ala Met Ser Val Ile Leu Glu His Ile Ser Asn Lys Pro
                20                25                30
Tyr Glu Met Ala Pro Phe Phe Ser Asp Leu Leu Ser Cys Gly Val Met
                35                40                45
Ser Pro Cys Ala Gly His Glu Asp Asn Glu Leu Asn Leu His Glu Tyr
50                55                60
Val Val Arg Asn Arg Pro Ser Thr Phe Phe Val Arg Ala Ala Gly Leu
65                70                75                80
Ser Met Ile Asn Ala Gly Ile Asn Asp Gly Ala Ile Leu Val Val Asp
                85                90                95
Arg Ser Leu Thr Ala Arg His Gly Ser Ile Val Val Ala Leu Val Asp
                100                105                110
Gly Glu Phe Thr Val Lys Ile Leu His Thr Tyr Pro Glu Leu Leu Leu
115                120                125
Met Pro Ser Asn Pro Ala Tyr Lys Pro Ile Arg Val Asn Pro Glu Ser
130                135                140
Leu Glu Ile Trp Gly Val Val Thr Phe Ala Leu Asn Gln Phe Ser His
145                150                155                160
Val His Ala Arg
                165

```

<210> 7239

<211> 99

<212> PRT

<213> Enterobacter cloacae

<400> 7239

```

Cys Pro Met Thr Leu Ser Cys Ser Ser Thr Asp Phe Glu Asn Asp Ser
1                5                10                15
Asp Phe Arg Pro Ser Arg Ala Arg Cys Cys Leu Arg Phe Arg Leu Cys
20                25                30
Arg Ser Ile Arg Cys Val Tyr Arg Leu Leu Ile Thr Cys Ser Phe Pro
35                40                45
Phe Arg Arg Asp Ser Tyr Ser Gly Gln Pro Ser Val Ile His Ile Thr
50                55                60
Thr Ser Lys Gly Asp Ser Arg Leu Ile Arg Arg Pro Ser Val Ala Ile
65                70                75                80
Val Arg Ser Pro Asn Thr Cys Ala Thr Thr Val Phe Arg Ser Leu Ser
85                90                95

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Tyr Ala

<210> 7240

<211> 424

<212> PRT

<213> Enterobacter cloacae

<400> 7240

```

Ile Ser Ser Ala Met Tyr Met His Val Asp Ile Asn Gly Ala Tyr Ala
1          5          10          15
Ala Phe Glu Cys Ala Met Asp Pro Lys Leu Ser Lys Lys Pro Leu Ile
20          25          30
Ile Ala Ser Asn Asn Asp Ser Ser Val Ile Ala Met Asn Lys Leu Ala
35          40          45
Lys Ser Val Gly Ile Lys Arg Gly Thr Pro Ile Phe Lys Cys Arg Asp
50          55          60
Leu Ile Gln Gln His Arg Ile Glu Val Arg Ser Ser Asn Phe Thr Leu
65          70          75
Tyr Glu Asp Tyr Ser Asn Arg Phe His Glu Thr Leu Glu Ser Phe Ala
85          90          95
Pro Gln Ser Ser Arg Tyr Ser Ile Asp Glu Asn Phe Met Leu Leu Lys
100         105         110
Asn Met Asn Lys Ile Ile Asp Tyr Glu Asp Tyr Gly Arg Leu Ile Arg
115         120         125
Ser Thr Leu Leu His Asn Leu Ser Leu Thr Cys Gly Val Gly Cys Ser
130         135         140
Ser Thr Lys Thr Leu Ala Lys Leu Cys Thr Tyr Ala Ser Lys Arg Trp
145         150         155
Ala Ala Thr Gly Gly Val Val Val Leu Thr Asp Gln Ala Arg Ile Arg
165         170         175
Lys Leu Leu Ser Leu Ile Ser Thr Arg Glu Ile Trp Gly Ile Gly Arg
180         185         190
Lys Ile Ser Glu Arg Leu Ser Ala Phe Gly Ile Ile Thr Ala Gly Asp
195         200         205
Phe Tyr Asn Ser Asp Val Arg Phe Leu Arg Lys Ser Phe Gly Val Glu
210         215         220
Ile Glu Arg Thr Trp Arg Glu Leu His Gly Glu Pro Cys Phe Arg Leu
225         230         235
His Glu Ser Pro Pro Val Arg Gln Gln Ile Ile Val Ser Arg Ser Phe
245         250         255
Gly Gln Arg Leu Asn Glu Ile Gly Lys Leu His Glu Ala Val Ser Phe
260         265         270
Phe Thr Ala Arg Ala Ala Glu Gln Leu Arg Lys Asp Gly Ser Trp Thr
275         280         285
Arg Gln Ile Thr Val Phe Ile Gln Ser Ser Asn Tyr Ala Gln Gly Glu
290         295         300
Asn Arg Tyr Ser Asn Cys Gly Ile Glu Pro Leu Thr Ala Thr Gln Asp
305         310         315
Thr Arg Asp Leu Val Asp Ala Ala Met Thr Ile Leu Asn Arg Ile Tyr
325         330         335
Arg Pro Gly Ile Ala Tyr Ala Lys Ala Gly Val Met Leu Ser Ala Met
340         345         350
Thr Asp Gly Thr Glu Gln Leu Ser Leu Phe Asp Thr Arg Pro Ala Arg
355         360         365
Pro Gly Ser Gln Ala Leu Met Lys Val Met Asp Arg Phe Asn Lys Glu
370         375         380
Lys Arg Gly Ala Leu Phe Leu Leu Gly Glu Gly Ile Gln Gln Asp Phe
385         390         395
Arg Met Lys Gln Ala Met Leu Ser Pro Arg Tyr Thr Thr Arg Trp Asp
405         410         415

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Glu Leu Leu Val Val Lys Ala
420

<210> 7241

<211> 190

<212> PRT

<213> Enterobacter cloacae

<400> 7241

Ile	Lys	Arg	Arg	Phe	Ser	Gly	Glu	Ile	Val	Val	Phe	Thr	Pro	Pro	Ala
1				5					10					15	
Asp	Asp	Val	Lys	Pro	Ile	Pro	Val	Pro	Asp	Glu	Ile	Tyr	Thr	Gln	Cys
		20						25				30			
Ile	Thr	Asp	Ala	Ala	Arg	Tyr	Phe	Gly	Ile	Asp	Ala	Glu	Leu	Val	Phe
		35					40					45			
Thr	Leu	Phe	Asp	Asn	Glu	Gly	Gly	Lys	Val	Gly	Thr	Phe	Ser	Arg	Asn
		50				55					60				
Thr	Asn	Gly	Thr	Tyr	Asp	Ile	Gly	Pro	Met	Gln	Ile	Asn	Ser	Ser	Asn
65				70					75					80	
Leu	Pro	Glu	Ile	Lys	Lys	His	Phe	Pro	Thr	Val	Thr	Trp	Arg	Val	Leu
				85					90					95	
Ala	Tyr	Asp	Ala	Cys	Ala	Ser	Phe	Trp	Val	Gly	Thr	Trp	Trp	Leu	Tyr
			100					105					110		
Arg	Lys	Ile	Val	Asp	Arg	Lys	Gly	Asn	Val	Phe	Glu	Gly	Ile	Ala	Asp
		115					120					125			
Tyr	Asn	Ser	Lys	Thr	Pro	Lys	Val	Arg	Ala	Lys	Tyr	Ile	Phe	Asn	Phe
	130					135					140				
Met	Val	Lys	Tyr	Asn	Arg	Arg	Ile	Gln	Gln	Arg	Asn	Gly	Met	Gly	Glu
145				150						155					160
Leu	Tyr	Gln	Trp	Thr	Gln	Gln	Pro	Pro	Arg	Tyr	Asn	Gly	His	Ile	Ala
				165					170					175	
Lys	Asn	Val	Pro	Glu	Gln	Asn	Pro	Thr	Pro	Val	Val	Lys			
			180					185					190		

<210> 7242

<211> 76

<212> PRT

<213> Enterobacter cloacae

<400> 7242

Asn	Phe	Ala	Thr	Gly	Lys	Val	Pro	Ser	Gly	Trp	Gln	Val	His	His	Lys
1				5					10					15	
Ile	Pro	Leu	Asp	Asp	Gly	Gly	Thr	Asn	Ala	Ile	Asp	Asn	Leu	Val	Leu
		20						25				30			
Ile	Gln	Asn	Ser	Pro	Tyr	His	Ser	Ala	Leu	Ser	Lys	Ala	Gln	Ser	Ile
		35					40					45			
Ile	Thr	Lys	Asp	Leu	Pro	Tyr	Asn	Ser	Ser	Thr	Lys	Val	Leu	Trp	Pro
	50					55					60				
Ser	Pro	Asn	Gly	Val	Ile	Tyr	Pro	Val	Gly	Lys					
65					70					75					

<210> 7243

<211> 172

<212> PRT

<213> Enterobacter cloacae

<400> 7243

Glu	Ala	Leu	Met	Lys	Asp	Leu	Thr	Gln	Leu	Leu	Ser	Ser	Leu	Lys	Arg
1				5					10					15	
Leu	Met	Val	Ala	Asp	His	Tyr	Pro	Leu	Ala	Ser	Pro	Val	Ala	Pro	Glu
			20					25					30		

Val Leu Lys Asp Leu Ile Cys Asn Pro Pro Pro Val Glu Trp Ala Asp
 35 40 45
 His Lys Lys Ser Ala Tyr Ile Asp Ile Gln Lys Leu Ile Lys Thr Arg
 50 55 60
 Leu Asp Tyr Ala Gln Val Phe Asn Ala Met Asp Gly Phe Glu Tyr Asn
 65 70 75 80
 Gly Leu Thr Phe Tyr Asn Leu Val Gln Ala Glu Asn Glu Asn Leu Leu
 85 90 95
 Trp Ser Asn Ile Tyr Ile Arg Asn Phe Glu Ala Arg Asp Asn Glu Ile
 100 105 110
 Tyr Val Asp Pro Asn Leu Thr Asp Lys Val Leu Ile Gly Glu Asp Gly
 115 120 125
 Met Ser Leu Phe Ala Tyr Ser Phe Ala Asp Asp Cys Phe Gln Ile Arg
 130 135 140
 Asp Lys Ala Ser Thr Asp Tyr Val Ile Glu Ser His Thr Glu Phe Asp
 145 150 155 160
 Arg Phe Leu Ser Ser Leu Ile Gln Thr Val Ser
 165 170

<210> 7244

<211> 500

<212> PRT

<213> Enterobacter cloacae

<400> 7244

Trp Thr Lys Asn Ser Lys Ala Met Thr Cys Leu Arg Pro Ile Arg Ser
 1 5 10 15
 Ile Ile Ser Met Leu Ala Ala Val Leu Glu Ala Leu Met Arg Ser Asn
 20 25 30
 Ala Val Phe Asn Phe Lys Lys Leu Leu Ser Leu Ser Val Cys Ala
 35 40 45
 Ala Ile Leu Ala Pro Thr Ala Asn Ala Asp Asn Ala Met Arg Asn Ile
 50 55 60
 Phe Asn Gly Met Met Thr Ser Thr Ser Pro Ala Thr Phe Ser Thr Ala
 65 70 75 80
 Thr Arg Thr Gly Ile Val Gly Gly Ser Met Ser Tyr Arg Thr Thr Asn
 85 90 95
 Val Asn Thr Asn Leu Val Ser Met Ser Phe Pro Lys Ala Ser Val Gly
 100 105 110
 Cys Asn Gly Ile Asp Val Phe Leu Gly Ser Phe Ser Met Ile Asn Gly
 115 120 125
 Asp Gln Leu Val Gln Val Ala Arg Gly Ile Ala Gln Gly Ala Ala Ile
 130 135 140
 Tyr Ala Phe Asn Val Ala Val Ser Ala Ile Cys Ala Asp Cys Ala Ala
 145 150 155 160
 Thr Ile Asn Asp Ile Gln Asn Lys Leu Gln Ala Leu Asn Lys Phe Ala
 165 170 175
 Lys Asp Ser Cys Asn Ala Thr Tyr Ser Phe Leu Ser Glu Asn Val Gly
 180 185 190
 Thr Pro Ser Gln Phe Ala Asn Ser Val Ser Ser Gly Pro Ala Ser Ile
 195 200 205
 Leu Gly Ser Ile Asn Gly Leu Ile Pro Asp Phe Gly Ser Ser Met Thr
 210 215 220
 Lys Ser Pro Glu Ala Val Thr Ser Gln Val Lys Ala Lys Asp Pro Glu
 225 230 235 240
 Glu Phe Ala Glu Lys Phe Ser Gly Asn Leu Phe Tyr Met Ser Phe Met
 245 250 255
 Asp Ile Asp Lys Gly Thr Met Asn Ile Gly Gly Val Thr Glu Leu Ser
 260 265 270
 Gly Tyr Lys Leu Ala Glu Gln Leu Met Ser Leu Val Gly Thr Val Ile
 275 280 285

Ile Asn Trp Asp Ser Lys Gly Glu Lys Ala Gly Met Glu Val Arg Pro
 290 295 300
 Ser Thr Met Thr Val Thr Asp Tyr Ile Met Gly Pro Pro Ala Gly Gly
 305 310 315 320
 Ser Ile Lys Met Leu Lys Cys Ser Pro Ala Pro Asp Pro Ser Ser Pro
 325 330 335
 Arg Lys Ala Gln Cys Leu Val Met Ser Glu Val Asn Asp Gly Gly Phe
 340 345 350
 Lys Gly Leu Lys Asp Thr Ile Ser Asp Leu Leu Leu Asn Val Gln Lys
 355 360 365
 Lys Ile Ile Asn Asp Val Arg Val Ser Asp Asp Glu Leu Arg Ile Ile
 370 375 380
 Ser Tyr Ile Gly Ile Pro Thr Ile Ile Asp Ser Leu Gln Thr Phe Glu
 385 390 395 400
 Ala Pro Glu Gly Tyr Ala Tyr Ile Gln Asp Ile Ser Thr Ile Ala Ala
 405 410 415
 Thr Ser Leu Val Ile Asn Met Leu Arg Gln Val Glu Ala Lys Ile Ser
 420 425 430
 Thr Met Ser Ile Pro Ser Glu Ser Leu Ser Gly Lys Arg Asp Asp Leu
 435 440 445
 Asn Arg Leu Thr Asp Asn Leu Ser Lys Gln Val Lys Ala Ala Tyr Glu
 450 455 460
 Leu Ser His Ser Gln Val Gly Thr Ser Ser Asp Val Ile Ser Thr Trp
 465 470 475 480
 Asp Asn Arg Arg Leu Gln Arg Lys Ala Phe Thr Glu Ser Ile Arg Gly
 485 490 495
 Thr Arg Asn
 500

<210> 7245

<211> 95

<212> PRT

<213> Enterobacter cloacae

<400> 7245

Gly Ala Pro Val Ala Ser Val Ser Ile Ser Cys Pro Ser Cys Ser Ala
 1 5 10 15
 Thr Asp Gly Val Val Arg Asn Gly Lys Ser Thr Ala Gly His Gln Arg
 20 25 30
 Tyr Leu Cys Ser His Cys Arg Lys Thr Trp Gln Leu Gln Phe Thr Tyr
 35 40 45
 Thr Ala Ser Gln Pro Gly Thr His Gln Lys Ile Ile Asp Met Ala Met
 50 55 60
 Asn Gly Val Gly Cys Arg Ala Thr Ala Arg Ile Met Gly Val Gly Leu
 65 70 75 80
 Asn Thr Ile Phe Arg His Leu Lys Asn Ser Gly Arg Ser Arg
 85 90 95

<210> 7246

<211> 653

<212> PRT

<213> Enterobacter cloacae

<400> 7246

Thr Val Ser Ala Ile Trp Tyr Asp Ser Pro Asn Ile Arg Ile Trp Lys
 1 5 10 15
 Glu Arg Tyr Met Gly Asp Leu Val Ser Lys Asn Asn Ile Asp Arg Leu
 20 25 30
 Glu Arg Phe His Ser Leu Leu Ala Gly Gln Tyr Trp Thr Ser Thr Asp
 35 40 45
 Ser Ile Pro Glu Glu Gly Ile Val Ala Gly Asp Thr Leu Leu Ile Thr

50	55	60
Ser Leu Arg Tyr Val	Glu Asp Lys Leu His Thr	Val Ile Leu Arg Ala
65	70	75
His Pro Arg Val Tyr	Gly Gln Thr Val Ala Ile Val Thr	Glu Asp Ser
85	90	95
Ser Gly Asn Arg Arg	Glu Arg Gly Lys Glu Met Arg Glu	His Arg Phe
100	105	110
Leu Val Lys Asp Phe	Leu Ser Ser Phe Val Phe Glu Pro	Asp His Lys
115	120	125
Val Ile Arg Asp Ala	Glu Leu Arg Gln Ala Gln Glu Val	Asn Ser
130	135	140
Leu Gln Ala Ser Leu	Thr Ala Leu Val Ser Asp Ala Gln	Gly Leu Arg
145	150	155
Asp Leu Ala Ile Glu	Gln Leu Gly Thr Asp Asp Arg Glu	Asn Pro Val
165	170	175
Thr Gly Leu Ser Val	Ala Leu Val Pro Pro Gln Glu Gln	Gln Ala Val
180	185	190
Thr Ser Leu Ala Ile	Gly Ser Val Gln Asn Ala Leu Ser	Ser Gly Ile
195	200	205
Ser Asp Thr Arg Ile	Glu Gln Ile Arg Glu Ala Ala Leu	Lys Glu Gly
210	215	220
Gln Ile Ser Thr Ala	Ile Ser Lys Ile Ile Thr Gln Arg	Thr Gln Ala
225	230	235
Ile Ala Asn Ala Ser	Lys Arg Met Leu Pro Tyr Phe Glu	Glu Val Ala
245	250	255
Ala Ala Ser Leu Ala	Thr Thr Glu Glu Ala Met Glu Tyr	Val Lys Lys
260	265	270
Ile His Asp Gly Val	Gly Ser Leu Glu Leu Tyr Thr Gly	Lys Asp Val
275	280	285
Glu Val Val Asn Ile	Val Lys Gly Glu Ser Ala Pro Ser	His Leu Pro
290	295	300
Leu Gln Val Val Gln	Ala Lys Leu Met Val Asp Glu Glu	Leu Ala Val
305	310	315
Trp Cys Asp Leu Asp	Ser Trp Phe Asp Phe Ser Asp Met	Glu Lys Phe
325	330	335
His Glu Thr Leu Arg	Thr Ser Pro Gly Leu Val Glu Gln	Ile Phe Pro
340	345	350
Ser Glu Arg Ser Ile	Val Cys Met Ala Thr Thr Arg Arg	Tyr Ile Asp
355	360	365
Tyr Arg Asp Pro Trp	Glu Asn His Val Arg Asn Asp Arg	Asn Arg Val
370	375	380
Val Phe Leu Leu Val	Arg Asp Gly Gln Asn Ile His Gln	Val Tyr Cys
385	390	395
Ser Val Glu Ser His	Leu Gly Ala Ser Gln Leu Phe Pro	Ser Ala Ser
405	410	415
Glu Gln Glu Ala His	Phe Gln Gly Ile Asp Gly Ser Thr	Ile Lys Phe
420	425	430
Glu Asp Val Ser Tyr	Thr Asp Arg Leu Lys Gln His Asp	Leu Met Ala
435	440	445
Leu His Tyr Arg Arg	Phe Leu Ile Leu Ile Cys Gly Leu	Asp His Arg
450	455	460
Leu Lys Leu Phe Gly	Asp Phe Tyr Asp Thr Asn Thr Pro	Tyr Ser Phe
465	470	475
Leu Ser Leu Glu Phe	Gln Glu Arg Tyr Phe Gln Phe Leu	His Asp Lys
485	490	495
Asp Gly Ser Gly Leu	Leu Gly Met Ala Glu Thr Arg Pro	Ser Leu Gln
500	505	510
Ser Tyr Leu Glu Gln	Ala Asn Ser Cys Leu Gln Ser Gly	Ser Arg Val
515	520	525
Met Cys Asn Trp Asp	Ser Leu Met Asn Pro Val Thr Ala	Pro Gly Ala
530	535	540

Val Gln Glu Asp Asn Ser Tyr Ser Gly Tyr Lys Trp Leu Gly Arg Thr
 545 550 555 560
 His Lys Asn Tyr Glu Pro Val Ile Ala Phe Arg Gln Gly Asp Asp Ile
 565 570 575
 Cys Val Asn Ala Thr Val Asn Arg Tyr Ser Thr Asp Arg Asp Phe Asn
 580 585 590
 Cys Lys Val Asn Leu Ser Leu Phe Lys Glu Ser Ser Arg Asn Asp Ala
 595 600 605
 Glu Leu Gly Phe Leu Cys Met Asp Thr Ile Lys Ala Glu Glu Leu Glu
 610 615 620
 Trp Tyr Ile His Arg Arg Lys Phe Arg Ser Asn His Leu Phe Tyr Ile
 625 630 635 640
 Arg Phe Phe Lys Met Val Leu Pro Thr Val Gln Asn
 645 650

<210> 7247

<211> 105

<212> PRT

<213> Enterobacter cloacae

<400> 7247

Ser Ala Pro Leu Asn Thr Gly Glu Leu Met Ile Thr Phe Glu Ile Arg
 1 5 10 15
 Met Glu Ile Lys Val Leu His Lys Arg Gly Met Ser Ile Arg Ala Ile
 20 25 30
 Ala Arg Glu Leu Gly Ile Ser Arg Asn Thr Val Arg Ser His Leu Lys
 35 40 45
 Ala Lys Ser Glu Lys Pro Gln Tyr Ser Pro Arg Pro Ala Pro Ser Ser
 50 55 60
 Leu Leu Asp Glu Tyr Arg Asp Tyr Ile Ser Lys Arg Ile Ser Asp Ala
 65 70 75 80
 His Pro Tyr Lys Ile Pro Ala Thr Val Ile Ala Arg Glu Ile Met Glu
 85 90 95
 Leu Gly Tyr Arg Gly Arg Ala Phe
 100 105

<210> 7248

<211> 253

<212> PRT

<213> Enterobacter cloacae

<400> 7248

Gly Ala Glu Met Lys Lys Ile Ile Lys Ala Ser Val Leu Leu Leu Ser
 1 5 10 15
 Leu Ser Thr Ala Phe Thr Met Asn Ala Glu Pro Val Asn Thr Met Val
 20 25 30
 Leu Pro Asp Ala Ala Arg Asp Lys Leu Lys Ala Ile Gly Leu Ser Ile
 35 40 45
 Glu His Val Glu Pro Ser Pro Val Lys Asp Ile Phe Thr Val Ile Ser
 50 55 60
 Arg Glu Gly Val Ser Tyr Val Ser Lys Asp Gly Asp Tyr Ile Phe Thr
 65 70 75 80
 Gly Ser Leu Phe His Val Lys Gly Lys Asp Val Val Asn Thr Thr Glu
 85 90 95
 Gln Ala Ile Leu Met Gly Val Arg Glu Phe Ala Ser Lys Thr Lys Ser
 100 105 110
 Ile Asp Tyr Lys Ser Pro Asn Glu Lys Tyr Arg Leu Ala Ile Phe Thr
 115 120 125
 Asp Ile Thr Cys Gly Tyr Cys Gln Lys Leu His His Asp Leu Lys Ser
 130 135 140
 Tyr Leu Asp Ala Gly Ile Ser Ile Lys Phe Leu Ala Phe Pro Arg Ala

145		150		155		160									
Gly	Leu	Asn	Ser	Val	Ala	Gly	Asn	Met	Ala	Lys	Ile	Trp	Cys	Ser	
		165						170					175		
Ala	Lys	Pro	Asn	Glu	Ala	Leu	Asp	Ala	Ala	Met	Asn	Pro	Val	Ser	Thr
		180						185					190		
Ile	Pro	Glu	Gly	Arg	Pro	Asp	Glu	Ala	Cys	Leu	Asn	Ile	Ile	Lys	Ser
		195					200					205			
His	Phe	Gln	Val	Ala	Ser	Thr	Ile	Pro	Leu	Gln	Gly	Thr	Pro	Thr	Met
	210					215					220				
Val	Thr	Leu	Ser	Gly	Lys	Pro	Gln	Leu	Phe	Thr	Gly	Trp	Leu	Ser	Pro
225					230					235					240
Glu	Asn	Leu	Val	Thr	Gln	Met	Gly	Ala	Ala	Gln	Lys				
			245						250						

<210> 7249

<211> 303

<212> PRT

<213> Enterobacter cloacae

<400> 7249

Ser	Pro	Lys	Ser	Ile	Val	Ser	Arg	Ile	Ile	Pro	Ile	Tyr	Arg	Ala	Ser
1			5						10					15	
Ile	Ile	His	Arg	Arg	Leu	Ile	Thr	Asn	Arg	Leu	Lys	Ser	Ile	Lys	Val
		20						25					30		
Ala	Met	Ser	Lys	Glu	Phe	Tyr	Leu	Lys	Pro	Met	Ala	Thr	Ile	Leu	Ile
	35						40				45				
Ser	Ala	Val	Ile	Ala	Thr	Ala	Ser	Ala	Leu	Ile	Thr	Ala	Thr	Tyr	
	50				55					60					
Phe	Lys	Pro	Lys	Val	Leu	Ser	Glu	Glu	Glu	Ile	Gly	Lys	Ile	Ala	Ala
65				70					75					80	
Thr	Tyr	Leu	Val	Lys	Asn	Pro	His	Tyr	Leu	Val	Glu	Ala	Gly	Lys	Ala
			85					90					95		
Leu	Glu	Asn	Gln	Asn	Val	Ser	Ala	Ser	Val	Glu	Arg	Ile	Ile	Pro	Tyr
		100					105						110		
Ala	Pro	Ala	Leu	Leu	Asp	Thr	Lys	Glu	Thr	Pro	Asn	Ile	Gly	Pro	Asp
	115					120						125			
Asp	Ala	Asp	Val	Ala	Val	Ile	Glu	Phe	Phe	Asp	Tyr	Gln	Cys	Ile	Tyr
	130				135					140					
Cys	Met	Arg	Val	Thr	Pro	Val	Val	Glu	Ser	Val	Met	Asn	Gln	Ser	Lys
145				150					155					160	
Asp	Val	Lys	Phe	Phe	Phe	Lys	Glu	Phe	Pro	Ile	Phe	Ala	Gly	Ser	Lys
			165					170					175		
Pro	Val	Ser	Ala	Met	Gly	Ala	Ala	Thr	Gly	Leu	His	Val	Tyr	Gln	Asn
		180					185						190		
Phe	Gly	Ala	Glu	Ala	Tyr	Arg	Lys	Tyr	His	Asn	Asn	Leu	Met	Ala	Val
	195					200					205				
Ala	His	Thr	Phe	Met	Thr	Ser	Gln	Arg	Lys	Phe	Glu	Leu	Thr	Asp	Phe
	210				215						220				
Asn	Thr	Val	Val	Glu	Lys	Ser	Gly	Phe	Asn	Ser	Thr	Phe	Ser	Asp	Arg
225					230				235						240
Glu	Lys	Asn	Arg	Tyr	Glu	Asn	Val	Ile	Ser	Gly	Asn	Met	Gln	Leu	Gly
			245						250					255	
Glu	Ala	Leu	Gly	Ile	Thr	Gly	Thr	Pro	Gly	Phe	Ile	Ile	Met	Asn	Met
		260					265					270			
Lys	Lys	Pro	Asn	Ala	Ala	Thr	Thr	Phe	Ile	Pro	Gly	Ala	Met	Asp	
		275				280					285				
Ala	Ala	Thr	Leu	Gln	Gly	Ala	Ile	Glu	Lys	Ala	Arg	Gly	Ala		
	290					295					300				

<210> 7250

<211> 78

<212> PRT

<213> Enterobacter cloacae

<400> 7250

Cys	Cys	Gln	Leu	Thr	Asp	Leu	Val	Tyr	Asp	Gly	Val	Phe	Glu	Val	Leu
1				5					10				15		
Gln	Trp	Leu	Leu	Phe	Leu	Ser	Ala	Val	Pro	Pro	Val	Gln	Leu	Leu	Thr
		20						25				30			
Gly	Trp	Cys	Val	Thr	Ala	Lys	Ala	Leu	Pro	Asp	Ile	Ser	Ala	Ile	Ser
		35					40					45			
Ala	Leu	Thr	Ala	Val	Lys	His	Gly	Asn	Cys	Ser	Ser	Leu	Thr	Pro	Leu
	50					55					60				
Leu	Asn	Pro	Val	Arg	Thr	Arg	Lys	Ser	Leu	Ile	Trp	Pro			
65					70					75					

<210> 7251

<211> 1321

<212> PRT

<213> Enterobacter cloacae

<400> 7251

Leu	Arg	Ser	Asp	Met	Asp	Tyr	Asn	Ile	Tyr	Thr	Leu	Gly	Asp	Ile	Asp
1				5					10				15		
Phe	Val	Trp	Ser	Ala	Phe	Thr	Gly	Ile	Ala	Leu	Ile	Phe	Ser	Gln	Tyr
		20					25					30			
Thr	Gly	Val	Lys	Glu	Phe	Leu	Thr	Ala	Ala	Val	Val	Ala	Gly	Val	
		35					40				45				
Ser	Leu	Phe	Tyr	Lys	Thr	Trp	Leu	Trp	Leu	Gln	Ala	Pro	Thr	Lys	Asn
	50					55				60					
Glu	Leu	Pro	Phe	Phe	Ser	Trp	Phe	Leu	Gly	Leu	Ile	Leu	Phe	Met	Met
65					70				75					80	
Ala	Met	Val	Arg	Val	Asp	Val	Thr	Ile	Glu	Ser	Val	Lys	Ser	Gly	Glu
				85					90					95	
Val	Arg	Asn	Val	Asp	Gly	Ile	Pro	Ile	Phe	Ile	Ala	Ala	Met	Ala	Thr
		100					105						110		
Val	Thr	Thr	Asn	Leu	Ser	Gln	Gly	Leu	Leu	Lys	Asp	Tyr	Lys	Thr	Ala
		115					120					125			
Phe	Asp	Pro	Leu	Ser	Pro	Val	Asp	Leu	Ser	Ala	Thr	Thr	Leu	Asp	Asp
	130						135				140				
Asp	Ile	Thr	Leu	Gly	Pro	Met	Ile	Arg	Phe	Val	Lys	Phe	Leu	Gln	Trp
145					150				155					160	
Gly	Gly	Asp	Ser	Gln	Gly	Tyr	Cys	Ser	Ala	Phe	Pro	Glu	Pro	Ala	Ser
			165						170					175	
Gly	Leu	Gly	Pro	Met	Asn	Val	Cys	Ala	Thr	Val	Gln	Ser	Leu	Ala	Tyr
		180					185					190			
Asn	Cys	Leu	Lys	Ala	Thr	Gln	Asn	Ser	Ser	Ala	Asn	Ile	Ala	Gly	Lys
		195					200					205			
Glu	Thr	Ile	Phe	Asn	Asp	Ile	Phe	Ser	Ala	Asn	Leu	Ala	Asp	Ser	Met
	210					215					220				
Asp	Arg	Ile	Asn	Gln	Ala	Met	Lys	Gly	Ala	Leu	Lys	Asn	Ala	Ser	Ala
225					230					235				240	
Ser	Ile	Val	Gly	Ala	Asn	Gly	Ser	Lys	Ser	Gly	Thr	Cys	Asp	Glu	Val
			245						250					255	
Trp	Ser	Thr	Val	Lys	Gln	Val	Thr	Ser	Thr	Ala	Glu	Ala	Arg	Gln	Thr
		260						265					270		
Ile	Ser	Leu	Ile	Gly	Gln	Thr	Asn	Gly	Ile	Leu	Thr	Pro	Asp	Glu	Ala
		275					280					285			
Asn	Gly	Ala	Pro	Thr	Gly	Ala	Ser	Phe	Thr	Asp	Val	Met	Ala	Ser	Ala
	290					295					300				
Asn	Gly	Met	Tyr	Gly	Lys	Ala	Ile	Gly	Ser	Tyr	Asp	Ala	Thr	Leu	Asn
305					310					315				320	

Leu	Phe	Ile	Met	Asn	Glu	Leu	Arg	Asn	Gly	Ala	Ser	Lys	Tyr	Lys	Thr
			325						330					335	
Pro	Leu	Gly	Leu	Ala	Ser	Asp	Met	Gln	Leu	Phe	Glu	Ala	Ser	Leu	Lys
			340					345					350		
Arg	Thr	Asn	Thr	Met	Ala	Ser	Gln	Gly	Gln	Leu	Trp	Leu	Gln	Leu	Ser
		355					360					365			
Gly	Ala	Ala	Ile	Ala	Phe	Leu	Glu	Met	Phe	Ala	Tyr	Met	Val	Ala	Pro
	370					375				380					
Phe	Ala	Leu	Leu	Met	Leu	Leu	Ala	Leu	Gly	Gly	Asn	Gly	Val	Ala	Ala
385				390						395					400
Ala	Ala	Lys	Tyr	Leu	Gln	Leu	Ile	Leu	Phe	Val	Asn	Met	Trp	Pro	Leu
			405						410					415	
Thr	Ala	Val	Met	Val	Asn	Ala	Tyr	Val	Lys	Lys	Val	Ala	Thr	Ala	Asp
			420					425					430		
Leu	Asp	Thr	Trp	Ser	Thr	Leu	Asn	Ser	Gln	Asn	Asn	Ala	Val	Thr	Trp
	435						440					445			
Met	Gly	Leu	Pro	Gly	Leu	Ala	Glu	Thr	Tyr	Ser	Ser	Tyr	Leu	Ser	Val
	450					455					460				
Ala	Ser	Ala	Leu	Tyr	Ala	Leu	Ile	Pro	Val	Leu	Thr	Leu	Phe	Leu	Met
465				470						475					480
Thr	Gln	Ser	Ile	His	Pro	Met	Met	Asn	Ala	Val	Lys	Gly	Val	Thr	Pro
				485					490					495	
Asp	Ala	Pro	Val	Asp	Thr	Gly	His	Val	Thr	Pro	Lys	Val	Trp	Asp	Gly
		500						505					510		
Pro	Asn	Ser	Gly	Lys	Ser	Ser	Phe	Gly	Asp	Val	Thr	Arg	Thr	Ala	Leu
	515						520					525			
Thr	Ser	Thr	Gly	Gln	Gly	Tyr	Ser	Asp	Gly	Gly	Ala	Val	Asp	Ser	Ser
	530					535					540				
Asn	Phe	Arg	Leu	Gly	Met	Trp	Asn	Ala	Gly	Ser	Ser	Ile	Ala	Asn	Ser
545					550					555					560
Gln	Gly	Gln	Gly	Ser	Ala	Val	Thr	Ser	Ser	Val	Met	Ser	Ala	Ala	Ser
			565						570					575	
Asn	Ser	Phe	Gln	Ala	Gly	Tyr	Ser	Gln	Met	Ser	Glu	Ile	Gly	Arg	Ser
		580						585					590		
Gly	Gln	Ser	Ser	Gln	Gln	Phe	Ser	Thr	Asn	Leu	Gln	Thr	Met	Lys	Gln
	595					600						605			
Ile	Ser	Asp	Lys	Ile	Gly	Ala	Ser	Val	Ala	Glu	Gly	Ile	Ala	Thr	Lys
610					615						620				
His	Gly	Val	Ser	Ala	Ser	Gln	Met	Ala	Ser	Ile	Ala	Ser	Asn	Val	Ile
625				630						635					640
Leu	Asn	Ala	Gly	Leu	Asn	Gly	Gly	Val	Gly	Thr	Gly	Asn	Gly	Ala	Gly
			645						650					655	
Leu	Lys	Ala	Ala	Val	Ala	Gly	Gln	Leu	Ser	Ser	Gly	Ala	Ser	Lys	Thr
		660						665					670		
Asn	Thr	Gly	Ser	Asp	Ser	Leu	Ser	Asn	Asp	Leu	Ser	Lys	Ala	Ile	Thr
	675						680					685			
Asn	Gln	Leu	Ser	Gln	Asp	Ser	Ala	Leu	Thr	Asp	Gln	Phe	Ser	Lys	Ala
	690				695						700				
Ala	Ser	Gln	Val	Ser	Ser	Asp	Gln	Ile	Ser	Asn	Thr	Asn	Ala	Phe	Lys
705				710						715					720
Glu	Ala	Ser	Ser	Lys	Met	Asn	Gln	Ala	Thr	Gln	Thr	Met	Ala	Gln	Asn
			725						730					735	
Ile	Ser	Thr	Ser	Val	Ser	Thr	Asn	Ala	Ser	Ser	Asn	Ser	Gly	Met	Ser
			740					745					750		
Leu	Asp	Ser	Lys	Gln	Ser	Ile	Asn	Leu	Asp	Arg	Phe	Ser	Asp	Ser	Ile
	755						760					765			
Arg	Asn	Lys	Asn	Phe	Ser	Asp	Asp	Asp	Val	Arg	Asn	Phe	Ala	Arg	Lys
	770					775					780				
Asn	Gly	Leu	Asp	Glu	Asn	Ala	Phe	Met	Glu	Lys	Phe	Asn	Ser	Tyr	Asn
785				790						795					800
Asp	Thr	Phe	Lys	Ala	Ser	Asn	Gln	Leu	Gly	Ser	Gln	Leu	Gln	Arg	Thr

															805			810			815		
Asp	Ala	Leu	Val	Ala	Ala	Thr	Arg	Asp	Phe	Ser	Glu	Gln	Lys	Ile	Ala								
			820					825					830										
Ile	Asp	Thr	Ala	Arg	Gly	Glu	Thr	Ala	Glu	Ser	Asn	Lys	Gln	Asp	Leu								
			835					840					845										
Arg	Glu	Thr	Ser	Ser	Leu	Leu	Lys	Ser	Leu	Val	Ser	Asp	Phe	Gly	Gly								
			850					855					860										
Asn	Ala	Gln	Gln	Leu	Leu	Pro	Ile	Thr	Asn	Gln	Leu	Asp	Arg	Ile	Ser								
			865					870					875										
Gly	Asp	Gly	Ser	Gly	Ile	Asn	Thr	Ile	Thr	Gln	Ala	Gln	Asp	Arg	Thr								
			885					890					895										
Pro	Asp	Ser	Val	Asn	Thr	Ser	Gly	Val	Met	Ser	Ala	Ser	Arg	Val	Gly								
			900					905					910										
Glu	Leu	Gly	Gly	Ser	Val	Asp	Ser	Gln	Ala	Lys	Leu	Gly	Leu	Ser	Ser								
			915					920					925										
Asn	Ala	Gln	Asp	Ala	Thr	Gln	His	Val	Pro	Gly	Lys	Ser	Glu	Ala	Gly								
			930					935					940										
Phe	Thr	Pro	Tyr	Asn	Leu	Asp	Asn	Ala	Gly	Lys	Gly	Asp	Ile	Gln	Gly								
			945					950					955										
Ile	His	Asn	Asn	Asn	Val	Gly	Arg	Thr	Tyr	Ser	Asp	Glu	Glu	Arg	Asn								
			965					970					975										
Val	Leu	Asn	Ser	Leu	Glu	Lys	Asn	Gly	Pro	Val	Leu	Asn	Asn	Gln	Gly								
			980					985					990										
Val	Glu	Lys	Val	Val	Asn	Ser	Gly	Gln	Asp	Val	Arg	Asn	Ala	Glu	Gly								
			995					1000					1005										
Thr	Phe	Asn	Asp	Leu	Glu	Lys	Val	Gly	Gly	Arg	Val	Val	Gly	Asp	Gly								
			1010					1015					1020										
Met	Asp	Gln	Arg	Ala	Thr	Ala	Leu	Asn	Ser	Met	Tyr	Gln	Ser	Gly	Gln								
			1025					1030					1035										
Val	Arg	Gly	Leu	Ser	Asn	Asn	Thr	Asp	Asn	Tyr	Phe	Ser	Arg	Val	Ala								
			1045					1050					1055										
Asn	Asn	Pro	Asn	Leu	Ser	Arg	Asp	Asp	Lys	Arg	Ala	Glu	Leu	Ala	Gln								
			1060					1065					1070										
Gln	Ala	Val	Phe	Thr	Tyr	Gly	Ala	Ser	Thr	Met	Ala	Thr	Gly	Ala	Glu								
			1075					1080					1085										
Arg	Glu	Gln	Leu	Lys	Ala	Asp	Thr	Gln	Lys	Ile	Leu	Asn	Glu	Leu	Gly								
			1090					1095					1100										
Asn	Tyr	Asn	Val	Asn	Trp	Ser	Met	Asn	Asp	Val	Lys	Ser	Ile	His	Ser								
			1105					1110					1115										
Ser	Phe	Asn	Thr	His	Asn	Arg	Ala	Asp	Gly	Ser	Leu	Glu	Ser	Val	Val								
			1125					1130					1135										
Arg	Ala	Asn	Leu	Gly	Glu	Gly	Gly	Ser	Gly	Gly	Gly	Leu	Val	Gly	Asn								
			1140					1145					1150										
Arg	Thr	Gln	Thr	Val	Thr	Asp	Arg	Leu	Val	Gly	Glu	Lys	Ile	Glu	Ala								
			1155					1160					1165										
Asn	Thr	Glu	Arg	Gly	Ala	Ile	Ser	Gly	Ala	Leu	Leu	Gly	Gly	Gln	Gln								
			1170					1175					1180										
Phe	Val	Ser	Asp	Thr	Leu	Thr	Ser	Val	Gly	Ala	Lys	Pro	Val	Asn	Glu								

Leu Ser Asn Thr Asn Glu Pro Tyr Gln Ser Arg Val Asp Lys Ala Asp
 1300 1305 1310
 Gln Trp Leu Asn Glu Asn Lys Lys
 1315 1320

<210> 7252
 <211> 175
 <212> PRT
 <213> Enterobacter cloacae

<400> 7252
 Tyr Gly His Glu Trp Arg Trp Met Pro Gly Asn Arg Pro His Tyr Gly
 1 5 10 15
 Arg Trp Pro Gln His Asp Phe Pro Pro Phe Lys Lys Leu Arg Pro Gln
 20 25 30
 Ser Val Thr Ser Arg Ile Gln Pro Gly Ser Asp Val Ile Val Cys Ala
 35 40 45
 Glu Met Asp Glu Gln Trp Gly Tyr Val Gly Ala Lys Ser Arg Gln Arg
 50 55 60
 Trp Leu Phe Tyr Ala Tyr Asp Arg Leu Arg Lys Thr Val Val Ala His
 65 70 75 80
 Val Phe Gly Glu Arg Thr Met Ala Thr Leu Gly Arg Leu Met Ser Leu
 85 90 95
 Leu Ser Pro Phe Asp Val Val Ile Trp Met Thr Asp Gly Trp Pro Leu
 100 105 110
 Tyr Glu Ser Arg Leu Lys Gly Lys Leu His Val Ile Ser Lys Arg Tyr
 115 120 125
 Thr Gln Arg Ile Glu Arg His Asn Leu Asn Leu Arg Gln His Leu Ala
 130 135 140
 Arg Leu Gly Arg Lys Ser Leu Ser Phe Ser Lys Ser Val Glu Leu His
 145 150 155 160
 Asp Lys Val Ile Gly His Tyr Leu Asn Ile Lys His Tyr Gln
 165 170 175

<210> 7253
 <211> 151
 <212> PRT
 <213> Enterobacter cloacae

<400> 7253
 Lys Arg Ile Thr Lys Leu Ser Leu His Trp Arg Ala Asn Val Val Glu
 1 5 10 15
 Gln Val Ser Gly Ile Leu Thr Arg Trp Arg Gln Phe Gly Arg Arg Tyr
 20 25 30
 Phe Trp Pro His Leu Leu Leu Gly Met Val Ala Ala Ser Leu Gly Leu
 35 40 45
 Pro Val Leu Ser Asn Ser Ala Asp Ala Ala Thr Pro Ala Arg Ser Thr
 50 55 60
 Thr Thr Lys His Asp Leu Thr Thr Arg Val Asn Phe Thr Asn Leu Ala
 65 70 75 80
 Trp Leu Glu Ala Ser Arg Arg Leu Asn Phe Ser Val Asp Tyr Trp Gln
 85 90 95
 Gln His Ala Asn Pro Thr Val Asn Arg His Leu Ser Phe Ala Arg Ala
 100 105 110
 Pro Thr Arg Met Leu Val Ala Glu Lys Asn Leu Pro Val Gln Ala Gln
 115 120 125
 His Leu Gly Leu Val Gln Ser Pro Asn Ala Ala Leu Asn Pro Gly Asn
 130 135 140
 Gln Pro Ala Ile Glu Pro
 145 150

<210> 7254

<211> 71

<212> PRT

<213> Enterobacter cloacae

<400> 7254

```

Ile His Ala Asp Gly Arg Ser Val Val Lys Thr Leu Cys Met Cys Gly
1      5      10      15
His Asn Ile Ile Gly Ala Phe Thr Ala Phe Lys Ser Gly His Ala Leu
20      25      30
Asn Asn Lys Leu Leu Gln Ala Val Leu Ala Lys Gln Glu Ala Trp Glu
35      40      45
Tyr Val Thr Phe Glu Asp Glu Ala Glu Leu Pro Leu Ala Phe Lys Ala
50      55      60
Pro Thr Met Val Leu Ala
65      70

```

<210> 7255

<211> 502

<212> PRT

<213> Enterobacter cloacae

<400> 7255

```

Cys Leu Met Glu Ser Asp Val Met Thr Gln Pro Ala Lys Lys Ala Pro
1      5      10      15
Ser Ile Lys Leu Leu Phe Ser Ala Leu Leu Leu Val Met Leu Leu Ser
20      25      30
Ala Leu Asp Gln Thr Ile Val Ser Thr Ala Leu Pro Thr Ile Val Gly
35      40      45
Glu Leu Gly Gly Leu Asp Lys Leu Ser Trp Val Val Thr Ala Tyr Ile
50      55      60
Leu Ser Ser Thr Ile Val Val Pro Leu Tyr Gly Lys Phe Gly Asp Leu
65      70      75      80
Phe Gly Arg Lys Ile Val Leu Gln Ile Ala Ile Val Leu Phe Leu Val
85      90      95
Gly Ser Ala Leu Cys Gly Leu Ala Gln Asn Met Thr Gln Leu Val Leu
100      105      110
Met Arg Ala Leu Gln Gly Leu Gly Gly Gly Leu Met Val Ile Ser
115      120      125
Met Ala Ala Val Ala Asp Val Ile Pro Pro Ala Asp Arg Gly Arg Tyr
130      135      140
Gln Gly Leu Phe Gly Gly Val Phe Gly Leu Ala Thr Val Ile Gly Pro
145      150      155      160
Leu Ile Gly Gly Phe Ile Val Gln His Ala Ser Trp Arg Trp Ile Phe
165      170      175
Tyr Ile Asn Leu Pro Leu Gly Leu Phe Ala Leu Leu Val Ile Gly Ala
180      185      190
Val Phe His Gly Ser Ala Arg Arg Ser Lys His Glu Ile Asp Tyr Leu
195      200      205
Gly Ala Ile Tyr Leu Ser Met Ala Leu Leu Cys Ile Ile Leu Phe Thr
210      215      220
Thr Glu Gly Gly Thr Ile Arg Gln Trp Ser Asp Pro Gln Leu Trp Cys
225      230      235      240
Ile Leu Ala Phe Gly Leu Thr Gly Ile Ala Gly Phe Ile Tyr Glu Glu
245      250      255
Arg Leu Ala Trp Glu Pro Ile Ile Pro Leu Ser Leu Phe Arg Asp Arg
260      265      270
Ser Phe Leu Leu Cys Ser Leu Ile Gly Phe Ile Ile Gly Met Ser Leu
275      280      285
Phe Gly Ser Val Thr Phe Leu Pro Leu Tyr Leu Gln Val Val Lys Asp
290      295      300

```

Ala Thr Pro Thr Gln Ala Gly Leu Gln Leu Ile Pro Leu Met Gly Gly
 305 310 315 320
 Leu Leu Leu Thr Ser Ile Ile Ser Gly Arg Ile Ile Ser Arg Thr Gly
 325 330 335
 Lys Tyr Arg Leu Phe Pro Ile Leu Gly Thr Leu Leu Gly Val Val Gly
 340 345 350
 Met Met Leu Leu Thr Arg Ile Ser Ile Thr Ser Pro Thr Trp Gln Leu
 355 360 365
 Tyr Leu Phe Thr Gly Val Leu Gly Met Gly Leu Gly Leu Val Met Gln
 370 375 380
 Val Leu Val Leu Ala Val Gln Asn Ser Val Ser Ala Asp Gln Tyr Gly
 385 390 395 400
 Val Ala Thr Ser Gly Val Thr Leu Phe Arg Ser Ile Gly Gly Ala Ile
 405 410 415
 Gly Val Ala Leu Phe Gly Ala Val Phe Thr His Ile Leu Gln Ser Gly
 420 425 430
 Leu Ile Asp Arg Leu Pro Glu Gly Ala Glu Leu Pro Arg Glu Leu Asn
 435 440 445
 Pro Val Ala Ile His His Leu Pro Asp Ala Leu Arg Leu Asp Tyr Leu
 450 455 460
 Asp Ala Phe Gly Ser Ala Ile His Ala Val Phe Met Leu Ala Ala Glu
 465 470 475 480
 Ile Met Val Leu Ala Phe Val Leu Ser Trp Phe Leu Arg Glu Ala Pro
 485 490 495
 Leu Arg Arg Gln Ala
 500

<210> 7256

<211> 154

<212> PRT

<213> Enterobacter cloacae

<400> 7256

Ala Val Arg Tyr Ser Asp Cys Ala Glu Asn Lys Glu Arg Phe Met His
 1 5 10 15
 Leu Ser Ile Thr Asp Lys Val Thr Ala Glu Glu Lys Glu Glu Leu Leu
 20 25 30
 Thr Gly Leu Arg Ala Tyr Asn Ala Gln Tyr Leu Asp Leu Ala Thr Phe
 35 40 45
 Ser Gly Asp Ile Gly Val Tyr Met Arg Asp Asp Asn Gly Val Met Leu
 50 55 60
 Gly Gly Leu Ile Gly Val Arg Lys Gly Asp Trp Leu Asn Ile Asp Tyr
 65 70 75 80
 Leu Trp Val Ser Asp Ser Val Arg Gly Thr Gly Val Gly Ser Gln Leu
 85 90 95
 Ile Lys Thr Ala Glu Glu Glu Ala Arg Arg Lys Gly Cys Arg His Ala
 100 105 110
 Leu Val Asp Thr Val Ser Phe Gln Ala Arg Pro Phe Tyr Glu Lys Gln
 115 120 125
 Gly Tyr Gln Val Gln Met Ser Leu Gln Asp Tyr Pro Tyr Gln Gly Met
 130 135 140
 Gln Arg His Tyr Leu Ser Lys Asn Leu
 145 150

<210> 7257

<211> 321

<212> PRT

<213> Enterobacter cloacae

<400> 7257

Gln Gly Arg Glu Met Ser Thr Ile Asn Asp Val Ser Arg Leu Ala Gly

```

1           5           10           15
Val Ser Lys Ala Thr Val Ser Arg Val Leu Ser Gly Ser Arg Gly Val
20           25           30
Lys Glu Ala Ser Arg Gln Ala Val Leu Lys Ala Val Asp Glu Leu Asn
35           40           45
Tyr Arg Pro Asn Val Ile Ala Gln Ser Leu Leu Ser Gln Ser Thr Gly
50           55           60
Cys Ile Gly Val Ile Cys Ala Gln Glu Asn Ile Asn Gln Thr Thr Gly
65           70           75           80
Tyr Leu Tyr Ala Leu Glu Lys His Leu Ser Gln His Gln Lys His Leu
85           90           95
Leu Leu Arg Phe Ala His Thr Lys Thr Glu Val Met Asn Ala Leu Glu
100          105          110
Glu Leu Ser Cys Gly Leu Cys Asp Asp Ile Leu Val Ile Gly Ala Arg
115          120          125
Phe Pro Leu Asp Val Asp Met Asp Asn Val Ile Leu Val Asp Cys Met
130          135          140
Glu Ala Asp Asn Ala Asn Ser Ile Gln Phe Asp His Ala Phe Ala Ala
145          150          155          160
Glu Thr Ala Cys Asn Tyr Leu Thr Ser Gln Gly Arg Arg Gln Ile Ala
165          170          175
Leu Ile His Pro His Gly Ser Gly Phe Ala Asp Gln Val Leu Leu Gly
180          185          190
Tyr Lys His Ala Leu Glu Lys Asn Phe Leu Pro Phe Asn Arg Asn Leu
195          200          205
Val Phe Met Asp Ala Thr Ser Ser Ser Val Ala Leu Gln Glu Leu Leu
210          215          220
Asn Asn Ala Ser Thr Leu Asn Phe Asn Ala Leu Leu Val Ala Asp Glu
225          230          235          240
Gln Glu Ala Gln Arg Val Ile Pro Gln Leu Gln Ala Phe Asn Lys Ser
245          250          255
Val Pro Glu Asp Ile Met Val Phe Ser Leu Gly Gly Ser Leu His Leu
260          265          270
Pro Gly Ile Pro Val Ile Pro Ala Ile Glu Tyr Ser Met Asp Ala Met
275          280          285
Ala Ala Arg Ile Val Ser Trp Leu Thr Glu Lys Thr Gln Met Leu Gly
290          295          300
Ser Tyr Val Leu Arg Gly Asp Leu Ile Ile Pro Asp Val Arg Lys Arg
305          310          315          320

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<210> 7258

<211> 224

<212> PRT

<213> Enterobacter cloacae

<400> 7258

```

Ile Arg Ser Arg Asp Thr Val Thr Met Pro Ala Gln Lys Asp Asn Ser
1           5           10           15
Glu Pro Arg Arg Pro Gly Arg Pro Arg Gly Gly Lys Arg Val Thr Ala
20           25           30
Ser Arg Glu Gln Leu Leu Asp Ile Ala Leu Asn Leu Phe Ser Arg Gln
35           40           45
Gly Ile Ala Asn Thr Ser Leu Asn Ala Ile Ala Arg Glu Ala Gly Val
50           55           60
Thr Pro Ala Met Leu His Tyr Tyr Phe Asn Ser Arg Glu Gln Leu Leu
65           70           75           80
Asp Ala Met Ile Glu Glu Arg Phe Leu Pro Leu Arg Glu Arg Ile Gly
85           90           95
Ala Ile Phe Ala Asp Asn Arg Asp Ser Pro Val Asp Ala Leu Thr Glu

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```
<210> 7259
<211> 1047
<212> PRT
<213> Enterobacter cloacae
```

<400> 7259															
Arg 1	Asp	Glu	Asn	Gln 5	Arg	Arg	Lys	Arg	Leu 10	Met	Phe	Ser	Arg	Phe 15	Phe
Val	Arg	Arg	Pro 20	Val	Phe	Ala	Trp 25	Val	Ile	Ala	Ile	Leu 30	Ile	Met	Leu
Ala	Gly	Ile 35	Leu	Ala	Ile	Arg	Thr 40	Leu	Pro	Val	Ala	Gln 45	Tyr	Pro	Asp
Val	Ala 50	Pro	Pro	Ser	Ile	Lys 55	Ile	Ser	Ala	Thr	Tyr 60	Thr	Gly	Ala	Ser
Ala 65	Gln	Thr	Leu	Glu	Asn 70	Ser	Val	Thr	Gln	Val	Ile 75	Glu	Gln	Gln	Leu 80
Thr	Gly	Leu	Asp	Asn 85	Leu	Leu	Tyr	Phe	Thr 90	Ser	Thr	Ser	Ser	Ser 95	Asp
Gly	Ser	Val	Ser 100	Ile	Asn	Val	Thr	Phe 105	Glu	Gln	Gly	Thr	Asp 110	Pro	Asp
Thr	Ala	Gln 115	Val	Gln	Val	Gln	Asn 120	Lys	Val	Gln	Gln	Ala 125	Glu	Ser	Arg
Leu	Pro 130	Thr	Glu	Val	Gln	Gln	Ser 135	Gly	Ile	Thr	Val 140	Glu	Lys	Ser	Gln
Ser 145	Asn	Phe	Leu	Leu 150	Ile	Met	Gly	Val	Tyr	Asp 155	Lys	Thr	Asp	Thr	Ala 160
Ser	Ser	Ser	Asp	Ile 165	Ala	Asp	Trp	Leu	Val	Ser 170	Asn	Met	Gln	Asp 175	Pro
Leu	Ala	Arg	Val 180	Asp	Gly	Val	Gly 185	Ser	Leu	Gln	Val	Phe 190	Gly	Ala	Glu
Tyr	Ala 195	Met	Arg	Ile	Trp	Leu	Asp 200	Pro	Ala	Lys	Leu 205	Ala	Ser	Tyr	Ser
Leu	Met 210	Pro	Ser	Asp	Val	Gln	Ser 215	Ala	Ile	Glu	Ala 220	Gln	Asn	Val	Gln
Val 225	Ser	Ala	Gly	Lys	Ile 230	Gly	Ala	Leu	Pro	Ser	Ser 235	Asn	Ala	Gln	Gln
Leu	Thr	Ala	Thr	Val 245	Arg	Ala	Gln	Ser	Arg	Leu	Gln	Thr	Val	Asp 255	Glu
Phe	Lys	Lys	Ile 260	Ile	Val	Lys	Ser	Gln 265	Ser	Asn	Gly	Ala 270	Val	Val	Arg
Ile	Ser	Asp 275	Val	Ala	Arg	Val	Glu 280	Met	Gly	Ser	Glu	Asp 285	Tyr	Thr	Ala
Thr	Ala 290	Lys	Leu	Asn	Gly	His 295	Pro	Ala	Ala	Gly	Met	Ala 300	Val	Met	Leu
Ser	Pro	Gly	Ala	Asn	Ala	Leu	Asn	Thr	Ala	Thr	Ala	Val	Lys	Asp	Lys

305					310					315					320
Ile	Ala	Glu	Phe	Lys	Lys	Ser	Met	Pro	Glu	Gly	Tyr	Asp	Val	Ala	Tyr
				325						330					335
Pro	Lys	Asp	Ser	Thr	Glu	Phe	Ile	Lys	Ile	Ser	Val	Glu	Asp	Val	Ile
			340					345						350	
Gln	Thr	Leu	Phe	Glu	Ala	Ile	Ile	Leu	Val	Val	Val	Val	Met	Tyr	Leu
		355						360					365		
Phe	Leu	Gln	Asn	Ile	Arg	Ala	Thr	Leu	Ile	Pro	Ala	Leu	Ala	Val	Pro
	370					375					380				
Val	Val	Leu	Leu	Gly	Thr	Phe	Gly	Val	Leu	Ala	Leu	Phe	Gly	Tyr	Ser
385					390						395				400
Ile	Asn	Thr	Leu	Thr	Leu	Phe	Ala	Met	Val	Leu	Ala	Ile	Gly	Leu	Leu
				405					410					415	
Val	Asp	Asp	Ala	Ile	Val	Val	Val	Glu	Asn	Val	Glu	Arg	Ile	Met	Arg
			420					425					430		
Asp	Glu	Gly	Leu	Pro	Ala	Arg	Glu	Ala	Thr	Glu	Lys	Ser	Met	Gly	Glu
		435					440						445		
Ile	Ser	Gly	Ala	Leu	Ile	Ala	Ile	Ala	Leu	Val	Leu	Ser	Ala	Val	Phe
	450					455					460				
Leu	Pro	Met	Ala	Phe	Phe	Gly	Gly	Ser	Thr	Gly	Val	Ile	Tyr	Arg	Gln
465					470						475				480
Phe	Ser	Val	Thr	Ile	Ile	Ser	Ala	Met	Phe	Leu	Ser	Val	Val	Val	Ala
				485					490					495	
Leu	Thr	Leu	Thr	Pro	Ala	Leu	Cys	Gly	Ser	Ile	Leu	Asn	His	Thr	Ala
			500					505					510		
Pro	His	Lys	Lys	Gly	Phe	Phe	Gly	Ala	Phe	Asn	Arg	Phe	Tyr	Ser	Lys
		515					520					525			
Thr	Glu	His	Ser	Tyr	Gln	Asn	Lys	Val	Leu	Arg	Ala	Leu	Arg	Arg	Ser
	530					535						540			
Gly	Gly	Met	Leu	Val	Ile	Tyr	Ala	Leu	Leu	Cys	Gly	Ala	Met	Gly	Phe
545					550					555					560
Ala	Met	Leu	Lys	Leu	Pro	Gly	Ser	Phe	Leu	Pro	Thr	Glu	Asp	Gln	Gly
			565						570					575	
Glu	Ile	Met	Val	Gln	Tyr	Thr	Leu	Pro	Ala	Gly	Ala	Thr	Ala	Val	Arg
			580					585					590		
Thr	Ala	Glu	Val	Ser	Arg	Gln	Val	Arg	Glu	Trp	Phe	Leu	Thr	Lys	Glu
	595						600					605			
Lys	Ala	Asn	Thr	Asn	Val	Ile	Phe	Thr	Ile	Glu	Gly	Phe	Ser	Phe	Ser
	610					615					620				
Gly	Ser	Gly	Gln	Asn	Ala	Gly	Met	Ala	Phe	Val	Ser	Leu	Lys	Asn	Trp
625				630						635					640
Ser	Glu	Arg	Lys	Gly	Asp	Glu	Asn	Thr	Ala	Gln	Ala	Ile	Ala	Leu	Arg
			645						650					655	
Ala	Thr	Gln	Glu	Leu	Ser	Thr	Ile	Arg	Asp	Ala	Thr	Ile	Phe	Ala	Met
			660					665					670		
Thr	Pro	Pro	Ala	Val	Asp	Gly	Leu	Gly	Gln	Ser	Asn	Gly	Phe	Thr	Phe
		675					680					685			
Glu	Leu	Met	Ala	Ser	Gly	Gly	Thr	Asp	Arg	Asp	Ala	Leu	Leu	Lys	Leu
	690				695						700				
Arg	Asn	Gln	Leu	Ile	Gly	Glu	Ala	Asn	Gln	Asp	Asn	Ser	Leu	His	Ala
705					710					715					720
Val	Arg	Ala	Asn	Asp	Leu	Pro	Gln	Met	Pro	Gln	Leu	Gln	Val	Asp	Ile
			725						730					735	
Asp	Asn	Asn	Lys	Ala	Val	Ser	Leu	Gly	Leu	Ser	Leu	Ser	Asp	Val	Thr
			740					745					750		
Asp	Thr	Leu	Ser	Ser	Ala	Trp	Gly	Thr	Tyr	Val	Asn	Asp	Phe	Ile	
		755					760					765			
Asp	Arg	Gly	Arg	Val	Lys	Lys	Val	Tyr	Ile	Gln	Gly	Asp	Ser	Asp	Tyr
	770					775					780				
Arg	Ala	Val	Pro	Ser	Asp	Leu	Asn	Lys	Trp	Tyr	Val	Arg	Gly	Ser	Asp
785					790					795					800

Ser Thr Met Thr Pro Phe Ser Ala Phe Ala Thr Thr Arg Trp Glu Tyr
 805 810 815
 Gly Pro Glu Ser Leu Val Arg Tyr Asn Gly Ser Ala Ala Tyr Glu Ile
 820 825 830
 Gln Gly Glu Asn Ala Ser Gly Ala Ser Ser Gly Thr Ala Met Ser Lys
 835 840 845
 Met Glu Gln Leu Ala Asn Ser Leu Pro Ser Gly Ser Thr Trp Ala Trp
 850 855 860
 Ser Gly Leu Ser Leu Gln Glu Lys Leu Ala Ser Gly Gln Ala Met Ser
 865 870 875 880
 Leu Tyr Ala Leu Ser Ile Leu Val Val Phe Leu Cys Leu Ala Ala Leu
 885 890 895
 Tyr Glu Ser Trp Ser Val Pro Ile Ser Val Ile Met Val Ile Pro Leu
 900 905 910
 Gly Val Leu Gly Ala Ala Val Ala Ala Ser Leu Arg Gly Leu Asn Asn
 915 920 925
 Asp Val Tyr Phe Gln Val Ala Leu Leu Thr Thr Ile Gly Leu Ser Ser
 930 935 940
 Lys Asn Ala Ile Leu Ile Val Glu Phe Ala Glu Ala Lys Val Ala Glu
 945 950 955 960
 Gly Tyr Ser Leu Thr Arg Ala Ala Leu Arg Ala Ala Gln Thr Arg Leu
 965 970 975
 Arg Pro Ile Ile Met Thr Ser Leu Ala Phe Ile Ala Gly Val Thr Pro
 980 985 990
 Leu Ala Ile Ala Thr Gly Ala Gly Ala Asn Ser Arg Val Ala Ile Gly
 995 1000 1005
 Thr Gly Ile Ile Gly Gly Thr Leu Ala Ala Thr Leu Leu Ala Ile Phe
 1010 1015 1020
 Phe Val Pro Leu Phe Phe Val Leu Val Lys Arg Leu Phe Ser Gly Lys
 1025 1030 1035 1040
 His Ala Asn Arg Arg Ser
 1045

<210> 7260

<211> 388

<212> PRT

<213> Enterobacter cloacae

<400> 7260

Ile Pro Met Ala Lys Val Ser Phe Ser Phe Ala Ala Ile Leu Gly Leu
 1 5 10 15
 Leu Thr Ala Ile Gly Pro Leu Cys Ser Asp Phe Tyr Leu Pro Ala Leu
 20 25 30
 Pro Glu Ile Ala Thr Gln Leu Asn Thr Ser Thr Thr Leu Thr Gln Leu
 35 40 45
 Ser Leu Thr Ser Ala Leu Ile Gly Leu Gly Leu Gly Gln Leu Phe Phe
 50 55 60
 Gly Pro Leu Ser Asp Arg Ile Gly Arg Lys Thr Pro Leu Leu Phe Ser
 65 70 75 80
 Leu Leu Leu Phe Val Leu Ala Ser Val Leu Cys Ala Ser Thr Gln Asn
 85 90 95
 Ile Tyr Ala Leu Ile Gly Trp Arg Phe Val Gln Gly Val Ala Gly Ala
 100 105 110
 Gly Gly Ser Val Leu Ala Arg Ser Ile Ala Arg Asp Asn Tyr His Gly
 115 120 125
 Thr Met Leu Thr Gln Phe Phe Ala Leu Leu Met Thr Val Asn Gly Ile
 130 135 140
 Ala Pro Val Val Ser Pro Val Leu Gly Gly Tyr Ile Ala Ser His Phe
 145 150 155 160
 Asp Trp Arg Met Leu Phe Trp Val Met Ala Gly Ala Gly Leu Ala Leu
 165 170 175

Leu Ile Ala Ser Gln Leu Phe Ile Arg Glu Ser Leu Thr Glu Lys Gln
 180 185 190
 Gly Arg Gly Ser Leu Thr Gln Thr Ala Arg Thr Val Leu Lys Asn Arg
 195 200 205
 Arg Phe Met Arg Tyr Cys Leu Ile Gln Ala Phe Met Leu Ala Gly Leu
 210 215 220
 Phe Ala Tyr Ile Gly Ala Ser Ser Phe Val Met Gln Asn Glu Tyr Gly
 225 230 235 240
 Leu Ser Ala Met Gln Phe Ser Leu Leu Phe Gly Val Asn Gly Ile Gly
 245 250 255
 Leu Ile Val Ser Ala Leu Ile Phe Ser Arg Leu Ala Arg Arg His Leu
 260 265 270
 Ala Glu Arg Leu Met Arg Thr Gly Leu Val Leu Ala Leu Ser Cys Ala
 275 280 285
 Gly Leu Thr Leu Leu Phe Ala Trp Met Gln Leu Ser Val Pro Ala Leu
 290 295 300
 Val Ala Leu Phe Phe Thr Val Ala Phe Asn Ser Gly Ile Ser Thr Ile
 305 310 315 320
 Ala Gly Ser Glu Ala Met Ser Ala Val Asp Thr Lys Glu Ser Gly Thr
 325 330 335
 Ala Ser Ala Ile Leu Gly Met Leu Met Phe Leu Phe Gly Gly Ile Ala
 340 345 350
 Ala Pro Leu Ala Gly Ile Gly Gly Glu Thr Met Leu Lys Met Ser Leu
 355 360 365
 Ala Val Leu Val Ser Tyr Gly Ile Ala Leu Ala Ile Gly Tyr Arg Thr
 370 375 380
 Gln Asn Ala
 385

<210> 7261

<211> 109

<212> PRT

<213> Enterobacter cloacae

<400> 7261

Gly Trp Leu Ser Met Phe Lys Ile Met Leu Cys Cys Ser Ala Gly Met
 1 5 10 15
 Ser Thr Ser Leu Leu Val Ser Lys Met Ile Asp Val Ala Lys Glu Arg
 20 25 30
 Gly Leu Pro Val Lys Ile Asp Ala Tyr Gly Val Ser Glu Phe Asp Thr
 35 40 45
 Gln Phe Pro His Tyr Gln Val Val Leu Leu Gly Pro Gln Val Lys Tyr
 50 55 60
 Met Leu Lys Thr Leu Ser Asp Lys Ala Ala Thr Gln Gly Ile Pro Val
 65 70 75 80
 Gln Pro Ile Asp Met Met Asp Tyr Gly Met Gln Arg Gly Asp Lys Val
 85 90 95
 Leu Asp Tyr Ala Leu Ser Leu Ile Glu Ala Ala His
 100 105

<210> 7262

<211> 192

<212> PRT

<213> Enterobacter cloacae

<400> 7262

Pro Thr Met Ser Thr Lys Leu Glu Glu Arg Gln Lys Leu Arg Gln Asp
 1 5 10 15
 Glu Ile Ile Thr Ala Ala Arg Arg Cys Phe Arg Ala Ser Gly Phe His
 20 25 30
 Ala Ala Ser Met Ser Gln Ile Ala Ser Glu Ala Arg Leu Ser Val Gly


```

      35              40              45
Gln Ile Tyr Arg Tyr Phe Ser Asn Lys Asp Ala Ile Ile Glu Glu Met
 50              55              60
Ile Arg Arg Ile Ile Asp Ser Arg Ile Glu Glu Met Gln Gly Lys Thr
 65              70              75              80
Leu Val Glu Gly Met Pro Gln Ala Leu Ala Trp Arg Gln Thr Leu Asn
      85              90              95
Glu Asp Asp Asp Ala Leu Met Leu Glu Met Ser Ala Glu Ala Thr Arg
      100              105              110
Asn Pro Leu Val Ala Asn Met Leu Ile Glu Ala Glu Ala Arg Met Phe
      115              120              125
Ala Asn Ala Cys Glu His Leu Lys Lys Gln Phe Pro His Leu Ser Asp
      130              135              140
Glu His Ile Arg Cys Cys Val Glu Ile Thr Ala Val Met Ile Glu Gly
      145              150              155              160
Thr Ile Tyr Arg Arg Leu Thr Pro Leu Lys Val Pro Ser Glu Gln Leu
      165              170              175
Glu Pro Ile Tyr Gln Asn Ile Leu Asn Met Leu Phe Ser Ala Lys
      180              185              190

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<210> 7263

<211> 385

<212> PRT

<213> Enterobacter cloacae

<400> 7263

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Gln Gly Arg Leu Arg Ser Pro Trp Lys Lys Ile Met Lys Thr Ile Thr
 1              5              10              15
Thr Ser Ile Ala Leu Leu Leu Leu Thr Gly Cys Asp Asn Ala Gln
      20              25              30
Thr Ser Ala Pro Gln Arg Pro Leu Pro Glu Val Gly Ile Val Thr Leu
      35              40              45
Met Ser Gln Pro Val Ser Val Val Ser Glu Leu Thr Gly Arg Thr Ala
      50              55              60
Ala Ala Met Ser Ala Glu Val Arg Pro Gln Val Gly Gly Ile Ile Gln
      65              70              75              80
Lys Arg Leu Phe Thr Glu Gly Asp Thr Val Lys Ala Gly Gln Ala Leu
      85              90              95
Tyr Gln Ile Asp Pro Ser Ser Tyr Arg Ala Ala Tyr Asn Glu Ala Ala
      100              105              110
Ala Ala Leu Lys Gln Ala Gln Ala Leu Val Gln Ala Asp Cys Gln Lys
      115              120              125
Ala Arg Arg Tyr Ala Gln Leu Val Lys Asp Asp Gly Val Ser Arg Gln
      130              135              140
Asp Ala Glu Asp Ala Lys Ser Thr Cys Ala Gln Asp Lys Ala Ser Val
      145              150              155              160
Glu Ser Lys Lys Ala Ala Leu Glu Ser Ala Arg Ile Asn Leu Asn Trp
      165              170              175
Thr Thr Val Thr Ala Pro Ile Ala Gly Arg Ile Gly Ile Ser Ser Val
      180              185              190
Thr Pro Gly Ala Leu Val Thr Thr Gln Gln Asp Thr Ala Leu Ala Thr
      195              200              205
Ile Arg Gly Leu Asp Ser Met Tyr Val Asp Leu Thr Arg Ser Ser Ala
      210              215              220
Asp Leu Leu Arg Leu Arg Lys Gln Trp Leu Ala Ser Asn Ser Asp Thr
      225              230              235              240
Leu Asn Val Ser Leu Ile Leu Glu Asp Gly Ser Ser Tyr Ser Glu Lys
      245              250              255
Gly His Leu Ala Leu Thr Glu Val Ala Val Asp Glu Ser Thr Gly Ser
      260              265              270
Val Thr Leu Arg Ala Val Phe Pro Asn Pro Gln His Gln Leu Leu Pro

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	275		280		285
Gly	Met	Phe	Val	Arg	Ala
290				295	
Ile	Leu	Ala	Pro	Gln	Gln
305				310	
Thr	Ala	Leu	Val	Val	Asn
				325	
Glu	Thr	Gly	Asp	Thr	Tyr
				340	
Lys	Ala	Gly	Asp	Lys	Leu
				355	
Gly	Gln	Glu	Val	Lys	Ala
370				375	

385

<210> 7264

<211> 462

<212> PRT

<213> Enterobacter cloacae

<400> 7264

Ala	Arg	Lys	Pro	Glu	Val	Ile	Met	Phe	Arg	Val	Thr	Val	Leu	Thr	Leu
1				5				10					15		
Ala	Leu	Leu	Ser	Ala	Gly	Cys	Val	Ser	Leu	Asp	Pro	Thr	Tyr	Gln	Arg
			20					25					30		
Pro	Asp	Ala	Pro	Val	Pro	Thr	Thr	Leu	Pro	Gly	Ala	His	Gly	Glu	Ala
			35				40					45			
Asn	Ala	Val	Val	Ser	Gln	Trp	Gln	Gln	Val	Met	Asn	Asp	Ala	Arg	Leu
			50			55					60				
Lys	Ser	Val	Val	Thr	Met	Ala	Leu	Asn	Ser	Asn	Arg	Asp	Val	Gln	Lys
65					70					75				80	
Ala	Ile	Ala	Asp	Ile	Asp	Ala	Ala	Arg	Ala	Gln	Tyr	Gly	Glu	Thr	Arg
			85					90						95	
Ser	Ser	Leu	Phe	Pro	Thr	Val	Asp	Ala	Glu	Leu	Ser	His	Thr	Arg	Ser
			100					105					110		
Arg	Thr	Leu	Ala	Ser	Gly	Val	Ala	Thr	Ser	Asp	Glu	Ala	Asn	Gly	Ala
			115					120					125		
Val	Ser	Ser	Phe	Glu	Leu	Asp	Leu	Phe	Gly	Arg	Asn	Gln	Ser	Leu	Ser
			130			135					140				
Arg	Ala	Ala	Arg	Glu	Thr	Trp	Leu	Ala	Ser	Glu	Phe	Thr	Ala	Gln	Asn
145					150					155				160	
Thr	Arg	Leu	Thr	Met	Val	Ser	Glu	Leu	Thr	Thr	Ala	Trp	Val	Thr	Leu
				165					170					175	
Ala	Ala	Asp	Asn	Ser	Asn	Leu	Ala	Leu	Ala	Lys	Ser	Thr	Leu	Glu	Ser
			180					185					190		
Ala	Ala	Asn	Ser	Leu	Lys	Ile	Val	Lys	Arg	Gln	Gln	Glu	Val	Gly	Val
		195					200					205			
Ala	Ala	Ala	Thr	Asp	Val	Ser	Glu	Ala	Met	Ala	Val	Tyr	Gln	Gln	Ala
		210				215					220				
Arg	Ala	Ser	Val	Ala	Ser	Tyr	Gln	Thr	Leu	Val	Met	Gln	Asp	Lys	Asn
225					230				235					240	
Ala	Leu	Asn	Leu	Leu	Ala	Gly	Asp	Thr	Val	Pro	Glu	Asn	Leu	Leu	Pro
				245					250					255	
Gly	Thr	Leu	Glu	Ser	Leu	Ser	Asp	Asn	Ala	Ile	Thr	Leu	Ile	Pro	Ala
			260					265					270		
Gly	Val	Ser	Ser	Ser	Ala	Leu	Leu	Arg	Arg	Pro	Asp	Ile	Gln	Glu	Ala
		275					280					285			
Glu	His	Asn	Leu	Leu	Ser	Ala	Asn	Ala	Asn	Ile	Gly	Ala	Ala	Arg	Ala
	290					295					300				
Asn	Phe	Phe	Pro	Thr	Ile	Ser	Leu	Thr	Ala	Ser	Ala	Gly	Val	Gly	Ser

305 310 315 320
 Asp Ser Leu Ser Ser Leu Phe Ser His Gly Met Lys Val Trp Ser Phe
 325 330 335
 Ala Pro Ser Ile Thr Leu Pro Leu Phe Ser Gly Gly Asn Asn Met Ala
 340 345 350
 Gln Leu Arg Tyr Ala Glu Ala Glu Lys Lys Gly Leu Ile Ala Thr Tyr
 355 360 365
 Glu Lys Thr Ile Gln Ser Ala Phe Lys Asp Val Ala Asp Ala Leu Ala
 370 375 380
 Arg Arg Glu Thr Leu Ser Glu Gln Leu Asp Ala Gln Arg Glu Tyr Val
 385 390 395 400
 Ala Ala Glu Gln Lys Thr Leu Asp Val Ala Thr Arg Ser Tyr Lys Ala
 405 410 415
 Gly Ala Gly Asp Tyr Leu Thr Val Leu Thr Ala Gln Arg Ser Leu Trp
 420 425 430
 Ser Ala Gln Glu Ser Leu Ile Ala Leu Gln Gln Thr Asp Leu Glu Asn
 435 440 445
 Arg Ile Thr Leu Trp Gln Ser Leu Gly Gly Gly Ile Gln
 450 455 460

<210> 7265

<211> 428

<212> PRT

<213> Enterobacter cloacae

<400> 7265

Ser Thr Gly Leu Cys Ser Val Ala Tyr Arg Ser Gly Thr Leu Lys Gly
 1 5 10 15
 Val His Met Ser Ser Leu Tyr Gln Ser Met Val Ala Val Ile Glu Gln
 20 25 30
 Ser Ile Thr Pro Leu Ala Ala Lys Leu Gly Gln Gln Lys Tyr Val Ile
 35 40 45
 Ala Ile Arg Asp Gly Phe Thr Ala Ala Leu Pro Phe Met Ile Ile Gly
 50 55 60
 Ser Phe Met Leu Val Phe Ile Phe Pro Pro Phe Ser Ala Asp Thr Thr
 65 70 75 80
 Asn Ser Phe Ala Arg Gly Trp Leu Asp Phe Ser Glu Thr Tyr Arg Glu
 85 90 95
 Gln Leu Met Leu Pro Phe Asn Leu Ser Met Gly Val Met Thr Phe Phe
 100 105 110
 Ile Ser Val Gly Ile Gly Ala Ser Leu Gly Arg Gln Phe Asn Leu Asp
 115 120 125
 Pro Val Met Ser Gly Leu Leu Ala Phe Met Ala Phe Leu Leu Val Ala
 130 135 140
 Ala Pro Tyr Ala Asp Gly Lys Ile Ser Thr Gln Tyr Leu Ser Gly Gln
 145 150 155 160
 Gly Ile Phe Thr Ala Leu Ile Thr Ala Ile Tyr Ser Thr Arg Val Tyr
 165 170 175
 Ala Trp Leu Lys Gln Asn Asn Val Thr Ile Arg Leu Pro Lys Glu Val
 180 185 190
 Pro Thr Gly Val Ala Arg Ser Phe Glu Ile Leu Ile Pro Val Met Val
 195 200 205
 Val Ile Gly Thr Leu His Pro Leu Asn Leu Phe Ile Glu Ala Gln Thr
 210 215 220
 Gly Met Ile Ile Pro Gln Ala Ile Met His Leu Leu Glu Pro Leu Val
 225 230 235 240
 Ser Ala Ser Asp Ser Leu Pro Ala Ile Leu Leu Ser Val Leu Leu Cys
 245 250 255
 Gln Ile Phe Trp Phe Ala Gly Ile His Gly Ser Leu Ile Val Thr Gly
 260 265 270
 Ile Met Asn Pro Phe Trp Met Ala Asn Leu Ser Ala Asn Gln Ala Ala

275	280	285
Leu Ala Ala Gly Ala Ala	Leu Pro His Val Tyr	Leu Gln Gly Phe Trp
290	295	300
Asp His Tyr Leu Leu Ile	Gly Gly Val Gly Ser Thr	Leu Pro Leu Ala
305	310	315
Phe Leu Leu Leu Arg Ser Arg	Val Thr His Leu Arg Thr	Ile Gly Lys
325	330	335
Met Gly Val Val Pro Ser Phe	Phe Asn Ile Asn Glu Pro	Ile Leu Phe
340	345	350
Gly Ala Pro Ile Ile Met Asn	Pro Met Leu Phe Ile Pro	Phe Val Phe
355	360	365
Val Pro Leu Val Asn Ala Cys	Leu Ala Tyr Gly Ala Thr	Lys Leu Gly
370	375	380
Trp Leu Ala Gln Val Val Ser	Leu Thr Pro Trp Thr Thr	Pro Ala Pro
385	390	395
Ile Gly Ala Ser Trp Ala Ala	Asn Trp Ala Leu Ser Pro	Val Val Met
405	410	415
Cys Leu Ile Cys Met Val Met	Ser Ala Leu Met Tyr	
420	425	

<210> 7266

<211> 354

<212> PRT

<213> Enterobacter cloacae

<400> 7266

Ile Met Met Lys Arg Asn Ile	Leu Ala Val Val Val Pro	Ala Leu Leu
1	5	10
Val Ala Gly Ala Ala Asn Ala	Ala Glu Ile Tyr Asn Lys	Asp Gly Asn
20	25	30
Lys Leu Asp Leu Tyr Gly Lys	Ala Val Gly Leu His Tyr	Phe Ser Asp
35	40	45
Asn Asp Ser Asn Asp Gly Asp	Asn Thr Tyr Ala Arg Leu	Gly Phe Lys
50	55	60
Gly Glu Thr Gln Ile Asn Asp	Gln Leu Thr Gly Tyr Gly	Gln Trp Glu
65	70	75
Tyr Asn Phe Gln Gly Asn Asn	Ser Glu Gly Asp Ala Gln	Asn Asn Gly
85	90	95
Asn Lys Thr Arg Leu Ala Phe	Ala Gly Leu Lys Phe Gly	Asp Ala Gly
100	105	110
Ser Phe Asp Tyr Gly Arg Asn	Tyr Gly Leu Val Tyr Asp	Ala Ile Gly
115	120	125
Ile Thr Asp Met Leu Pro Glu	Phe Gly Gly Asp Thr Gly	Ala Ser Asp
130	135	140
Asn Phe Phe Ala Gly Arg Thr	Gly Gly Leu Ala Thr Tyr	Arg Asn Ser
145	150	155
Asn Phe Phe Gly Leu Val Asp	Gly Leu Asn Phe Gly Val	Gln Tyr Leu
165	170	175
Gly Lys Asn Glu Arg Thr Asp	Ala Val Arg Ser Asn Gly	Asp Gly Trp
180	185	190
Ala Thr Ser Leu Ser Tyr Asp	Phe Glu Gly Phe Gly Ile	Val Gly Ala
195	200	205
Tyr Gly Ala Ala Asp Arg Thr	Asn Asn Gln Gln Thr Leu	Glu Trp Gly
210	215	220
Lys Gly Asp Lys Ala Glu Gln	Trp Ala Thr Gly Leu Lys	Tyr Asp Ala
225	230	235
Asn Asn Ile Tyr Leu Ala Ala	Ile Tyr Gly Glu Met Arg	Asn Ala Ala
245	250	255
Arg Leu Gly Ser Arg Gly Phe	Ala Asn Lys Ser Gln Asp	Phe Ser Val
260	265	270
Val Ala Gln Tyr Gln Phe Asp	Phe Gly Leu Arg Pro Ser	Ile Ala Tyr

275 280 285
 Tyr Lys Ser Lys Ala Lys Asp Val Glu Gly Ile Gly Asp Glu Asp Tyr
 290 295 300
 Ile Asn Tyr Ile Asp Val Gly Ala Thr Tyr Tyr Phe Asn Lys Asn Met
 305 310 315 320
 Ser Thr Tyr Val Asp Tyr Gln Ile Asn Gln Leu Lys Asp Asp Asn Lys
 325 330 335
 Leu Gly Ile Asn Asn Asp Tyr Ile Val Ala Leu Gly Leu Val Tyr Gln
 340 345 350
 Phe

<210> 7267

<211> 222

<212> PRT

<213> Enterobacter cloacae

<220>

<221> UNSURE

<222> (199)

<400> 7267

Tyr His Arg Gln Ser Pro Ala Val Trp Leu Lys Lys Glu Pro Lys Arg
 1 5 10 15
 Met Leu Phe Thr Leu Lys Lys Tyr Ile Gly Gly Met Met Leu Pro Leu
 20 25 30
 Pro Leu Leu Leu Leu Ile Ala Leu Gly Leu Ala Met Ile Trp Phe
 35 40 45
 Ser Arg Phe Gln Lys Ser Gly Lys Ser Leu Val Thr Val Gly Trp Leu
 50 55 60
 Ala Leu Leu Leu Leu Ser Leu Gln Pro Val Ala Asp Gly Leu Leu Arg
 65 70 75 80
 Pro Ile Glu Asn Thr Tyr Pro Thr Trp Gln Gly Asn Gln Lys Val Gly
 85 90 95
 Tyr Ile Val Val Leu Gly Gly Gly Tyr Thr Trp Asp Pro Asn Trp Ala
 100 105 110
 Pro Ser Ser Asn Leu Ile Asn Asn Ser Leu Pro Arg Leu Asn Glu Gly
 115 120 125
 Ile Arg Leu Trp Leu Ala Asn Pro Gly Ser Lys Met Ile Phe Thr Gly
 130 135 140
 Ala Ala Ala Lys Thr Asn Pro Val Ser Thr Ala Glu Ala Gly Ala Arg
 145 150 155 160
 Val Ala Glu Ser Leu Gly Val Pro Arg Ser Ala Ile Ile Thr Leu Asp
 165 170 175
 Ser Pro Lys Asp Thr Glu Glu Glu Ala Ala Val Lys Gln Ala Ile
 180 185 190
 Gly Asp Val Pro Phe Ala Xaa Gly Asp Ile Tyr Phe His Thr Cys Arg
 195 200 205
 Ala Gln Leu Phe Glu Asn Glu Leu Glu Ile Pro Pro Lys Glu
 210 215 220

<210> 7268

<211> 403

<212> PRT

<213> Enterobacter cloacae

<400> 7268

Ser Gln Trp Asn Phe Val Met Phe Glu Asn Ile Thr Ala Ala Pro Ala
 1 5 10 15
 Asp Pro Ile Leu Gly Leu Ala Asp Leu Phe Arg Ala Asp Asp Arg Pro
 20 25 30

Gly Lys Ile Asn Leu Gly Ile Gly Val Tyr Lys Asp Glu Thr Gly Lys
 35 40 45
 Thr Pro Val Leu Thr Ser Val Lys Lys Ala Glu Gln Tyr Leu Leu Glu
 50 55 60
 Asn Glu Thr Thr Lys Asn Tyr Leu Gly Ile Asp Gly Ile Pro Glu Phe
 65 70 75 80
 Gly Arg Cys Thr Gln Glu Leu Leu Phe Gly Lys Gly Ser Thr Ile Val
 85 90 95
 Ser Glu Lys Arg Ala Arg Thr Ala Gln Thr Pro Gly Gly Thr Gly Ala
 100 105 110
 Leu Arg Val Ala Ala Asp Phe Leu Ala Lys Asn Thr Ser Val Lys Arg
 115 120 125
 Val Trp Val Ser Asn Pro Ser Trp Pro Asn His Lys Ser Val Phe Asn
 130 135 140
 Ser Ala Gly Leu Glu Val Arg Glu Tyr Ala Tyr Tyr Asp Ala Ala Ser
 145 150 155 160
 His Ala Leu Asp Phe Asp Gly Leu Leu Ala Ser Leu Ser Glu Ala Gln
 165 170 175
 Ala Gly Asp Val Leu Phe His Gly Cys Cys His Asn Pro Thr Gly
 180 185 190
 Ile Asp Pro Thr Leu Glu Gln Trp Glu Gln Leu Ala Lys Leu Ser Val
 195 200 205
 Glu Lys Gly Trp Leu Pro Leu Phe Asp Phe Ala Tyr Gln Gly Phe Ala
 210 215 220
 Arg Gly Leu Glu Glu Asp Ala Glu Gly Leu Arg Ala Phe Ala Ala Val
 225 230 235 240
 His Gln Glu Leu Ile Val Ala Ser Ser Tyr Ser Lys Asn Phe Gly Leu
 245 250 255
 Tyr Asn Glu Arg Val Gly Ala Cys Thr Leu Val Ala Ala Asp Glu Ala
 260 265 270
 Thr Val Asp Arg Ala Phe Ser Gln Met Lys Ser Val Ile Arg Ala Asn
 275 280 285
 Tyr Ser Asn Pro Pro Ala His Gly Ala Ser Val Val Ala Thr Ile Leu
 290 295 300
 Ser Asn Asp Ala Leu Arg Ala Ile Trp Glu Gln Glu Leu Asn Asp Met
 305 310 315 320
 Arg Gln Arg Ile Gln Arg Met Arg Leu Leu Phe Val Asn Thr Leu Ala
 325 330 335
 Glu Lys Gly Ala Asp Arg Asp Phe Ser Phe Ile Ile Lys Gln Asn Gly
 340 345 350
 Met Phe Ser Phe Ser Gly Leu Thr Lys Glu Gln Val Leu Arg Leu Arg
 355 360 365
 Glu Glu Phe Gly Val Tyr Ala Val Ala Ser Gly Arg Val Asn Val Ala
 370 375 380
 Gly Met Thr Pro Asp Asn Met Ala Pro Leu Cys Glu Ala Ile Val Ala
 385 390 395 400
 Val Leu

<210> 7269

<211> 272

<212> PRT

<213> Enterobacter cloacae

<400> 7269

Gln Asn Ser Gly Phe Ala Val Ser Gly Thr Leu Pro Met Arg Asp Arg
 1 5 10 15
 Asn Phe Asp Asp Ile Ala Glu Lys Phe Ser Arg Asn Ile Tyr Gly Thr
 20 25 30
 Thr Lys Gly Gln Leu Arg Gln Thr Ile Leu Trp Gln Asp Leu Asp Lys
 35 40 45

Leu Leu Ala Glu Phe Gly Asp Arg Pro Leu Arg Val Leu Asp Ala Gly
 50 55 60
 Gly Gly Glu Gly Gln Thr Ala Ile Leu Met Ala Gln Arg Gly His His
 65 70 75 80
 Val Thr Leu Cys Asp Leu Ser Ala Glu Met Val Ala Arg Ala Gly Arg
 85 90 95
 Ala Ala Glu Glu Lys Gly Val Ser Asp Asn Met His Phe Ile His Cys
 100 105 110
 Ala Ala Gln Asp Ile Pro Gln His Leu Glu Thr Gln Val Asp Leu Ile
 115 120 125
 Leu Phe His Ala Val Leu Glu Trp Ile Ala Glu Pro Gln Ala Met Leu
 130 135 140
 Lys Thr Leu Trp Ser Met Leu Arg Pro Gly Gly Ala Leu Ser Leu Met
 145 150 155 160
 Phe Tyr Asn Ala Asn Gly Leu Leu Met Arg Asn Val Leu Val Gly Asn
 165 170 175
 Phe Gly Tyr Val Gln Gln Gly Met Tyr Lys Lys Lys Arg Arg Thr Leu
 180 185 190
 Ser Pro Asp Phe Pro Arg Glu Pro Gln Gln Val Tyr Gly Trp Leu Glu
 195 200 205
 Glu Ile Gly Trp Glu Ile Thr Gly Lys Thr Gly Val Arg Val Phe His
 210 215 220
 Asp Tyr Leu Arg Asp Lys Gln Lys Gln Asp Asp Cys Leu Asp Ala Leu
 225 230 235 240
 Thr Glu Ile Glu Thr Arg Tyr Cys Arg Gln Glu Pro Tyr Leu Ser Leu
 245 250 255
 Gly Arg Tyr Ile His Val Thr Ala Arg Lys Pro Gln Met Gln Gly
 260 265 270

<210> 7270

<211> 442

<212> PRT

<213> Enterobacter cloacae

<400> 7270

Ser Met Ser Glu Phe Ser Gln Thr Val Pro Glu Leu Val Ala Trp Ala
 1 5 10 15
 Arg Lys Asn Asp Phe Ser Ile Ser Leu Pro Val Asp Arg Leu Ser Phe
 20 25 30
 Leu Leu Ala Val Ala Thr Leu Asn Gly Glu Arg Leu Asp Gly Glu Met
 35 40 45
 Ser Glu Gly Glu Leu Val Asp Ala Phe Arg His Val Ser Asp Ala Phe
 50 55 60
 Glu Gln Thr Ser Glu Thr Ile Ser Val Arg Ala Asn Asn Ala Ile Asn
 65 70 75 80
 Asp Met Val Arg Gln Arg Leu Leu Asn Arg Phe Thr Ser Glu Gln Ala
 85 90 95
 Glu Gly Asn Ala Ile Tyr Arg Leu Thr Pro Leu Gly Ile Gly Ile Thr
 100 105 110
 Asp Tyr Tyr Ile Arg Gln Arg Glu Phe Ser Thr Leu Arg Leu Ser Met
 115 120 125
 Gln Leu Ser Ile Val Ala Gly Glu Leu Lys Arg Ala Ala Asp Ala Ala
 130 135 140
 Asp Glu Asn Gly Asp Glu Phe His Trp His Arg Asn Val Tyr Ala Pro
 145 150 155 160
 Leu Lys Tyr Ser Val Ala Glu Ile Phe Asp Ser Ile Asp Leu Thr Gln
 165 170 175
 Arg Leu Met Asp Glu Gln Gln Gln Gln Val Lys Asp Asp Ile Ala Gln
 180 185 190
 Leu Leu Asn Lys Asp Trp Arg Ala Ala Ile Ser Ser Cys Glu Leu Leu
 195 200 205

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Leu Ser Glu Thr Ser Gly Thr Leu Arg Glu Leu Gln Asp Thr Leu Glu
 210                215                220
Ala Ala Gly Asp Lys Leu Gln Ala Asn Leu Leu Arg Ile Gln Asp Ala
225                230                235                240
Thr Met Ala His Asp Asp Leu His Phe Ile Asp Arg Leu Val Phe Asp
                245                250                255
Leu Gln Ser Lys Leu Asp Arg Ile Ile Ser Trp Gly Gln Gln Ser Ile
                260                265                270
Asp Leu Trp Ile Gly Tyr Asp Arg His Val His Lys Phe Ile Arg Thr
                275                280                285
Ala Ile Asp Met Asp Lys Asn Arg Val Phe Ala Gln Arg Leu Arg Gln
                290                295                300
Ser Val Gln Thr Tyr Phe Asp Ala Pro Trp Ala Leu Thr His Ala Asn
305                310                315                320
Ala Asp Arg Leu Leu Asp Met Arg Asp Glu Glu Met Ala Leu Arg Asp
                325                330                335
Glu Glu Val Thr Gly Glu Leu Pro Pro Asp Leu Glu Tyr Glu Glu Phe
                340                345                350
Asn Glu Ile Arg Glu Gln Leu Ala Ala Met Ile Glu Glu Gln Leu Ala
                355                360                365
Val Tyr Lys Thr Arg Gln Ala Pro Leu Asp Leu Gly Leu Val Val Arg
                370                375                380
Asp Tyr Leu Ala Gln Tyr Pro Arg Ala Arg His Phe Asp Val Ala Arg
385                390                395                400
Ile Val Val Asp Gln Ala Val Arg Leu Gly Ile Ala Gln Ala Asp Phe
                405                410                415
Thr Gly Leu Pro Pro Lys Trp Gln Pro Ile Asn Asp Tyr Gly Ala Lys
                420                425                430
Val Gln Ala His Val Ile Asp Lys Tyr
                435                440

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<210> 7271

<211> 1488

<212> PRT

<213> Enterobacter cloacae

<400> 7271

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Arg Gly Gly Arg Val Met Ile Glu Arg Gly Lys Phe Arg Ser Leu Thr
1                5                10                15
Leu Ile Asn Trp Asn Gly Phe Phe Ala Arg Thr Phe Asp Leu Asp Glu
                20                25                30
Leu Val Thr Thr Leu Ser Gly Gly Asn Gly Ala Gly Lys Ser Thr Thr
                35                40                45
Met Ala Ala Phe Val Thr Ala Leu Ile Pro Asp Leu Thr Leu Leu His
                50                55                60
Phe Arg Asn Thr Thr Glu Ala Gly Ala Thr Ser Gly Ser Arg Asp Lys
65                70                75                80
Gly Leu His Gly Lys Leu Lys Ala Gly Val Cys Tyr Ser Val Leu Asp
                85                90                95
Val Ile Asn Ser Arg His Gln Arg Val Val Val Gly Val Arg Leu Gln
                100                105                110
Gln Val Ala Gly Arg Asp Arg Lys Val Asp Ile Lys Pro Phe Ala Ile
                115                120                125
Gln Gly Leu Pro Thr Ser Val Gln Pro Thr Ala Leu Leu Thr Glu Thr
                130                135                140
Leu Asn Glu Arg Gln Ala Arg Val Leu Thr Leu Gln Glu Leu Lys Asp
145                150                155                160
Lys Leu Glu Ala Ile Glu Gly Val Gln Phe Lys Gln Phe Asn Ser Ile
                165                170                175
Thr Asp Tyr His Ser Leu Met Phe Asp Leu Gly Val Val Ala Arg Arg
                180                185                190

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Leu Arg Ser Ala Ser Asp Arg Ser Lys Tyr Tyr Arg Leu Ile Glu Ala
 195 200 205
 Ser Leu Tyr Gly Gly Ile Ser Ser Ala Ile Thr Arg Ser Leu Arg Asp
 210 215 220
 Tyr Leu Leu Pro Glu Asn Ser Gly Val Arg Lys Ala Phe Gln Asp Met
 225 230 235 240
 Glu Ala Ala Leu Arg Glu Asn Arg Met Thr Leu Glu Ala Ile Arg Val
 245 250 255
 Thr Gln Ser Asp Arg Asp Leu Phe Lys His Leu Ile Ser Glu Ala Thr
 260 265 270
 Asn Tyr Val Ala Ala Asp Tyr Met Arg His Ala Asn Glu Arg Arg Ile
 275 280 285
 His Leu Asp Gln Ala Leu Glu Tyr Arg Arg Glu Leu Phe Thr Ser Arg
 290 295 300
 Lys Gln Leu Val Ala Glu Gln Tyr Lys His Val Glu Met Ala Arg Glu
 305 310 315 320
 Leu Gly Glu His Asn Gly Ala Glu Gly Asp Leu Glu Ala Asp Tyr Gln
 325 330 335
 Ala Ala Ser Asp His Leu Asn Leu Val Gln Thr Ala Leu Arg Gln Gln
 340 345 350
 Glu Lys Ile Glu Arg Tyr Glu Ala Asp Leu Asp Glu Leu Gln Ile Arg
 355 360 365
 Leu Glu Glu Gln Asn Glu Val Val Ala Glu Ala Ala Glu Leu Gln Glu
 370 375 380
 Glu Asn Glu Ala Arg Ala Glu Ala Ala Glu Leu Glu Val Asp Glu Leu
 385 390 395 400
 Lys Ser Gln Leu Ala Asp Tyr Gln Gln Ala Leu Asp Val Gln Gln Thr
 405 410 415
 Arg Ala Ile Gln Tyr Asn Gln Ala Leu Gln Ala Leu Gln Arg Ala Lys
 420 425 430
 Glu Leu Cys His Leu Pro Asp Leu Thr Pro Glu Ser Ala Asp Glu Trp
 435 440 445
 Leu Asp Thr Phe Gln Ala Lys Glu Gln Glu Ala Thr Glu Lys Leu Leu
 450 455 460
 Ser Leu Asp Gln Lys Met Ser Val Ala Gln Thr Ala His Ser Gln Phe
 465 470 475 480
 Glu Gln Ala Tyr Gln Leu Val Val Ala Ile Asn Gly Pro Leu Ala Arg
 485 490 495
 Asn Glu Ala Trp Asp Val Ala Arg Glu Leu Leu Arg Asp Gly Val Asn
 500 505 510
 Gln Arg His Leu Ala Glu Gln Val Gln Pro Leu Arg Met Arg Leu Asn
 515 520 525
 Glu Leu Glu Gln Arg Leu Arg Glu Gln Gln Glu Ala Glu Arg Leu Leu
 530 535 540
 Ala Glu Phe Cys Lys Arg Gln Gly Lys Asn Tyr Asp Phe Asp Glu Leu
 545 550 555 560
 Glu Ala Leu His Gln Glu Leu Glu Ala Arg Ile Ala Ala Leu Ser Asp
 565 570 575
 Thr Val Ser Asn Ala Ser Glu Gln Arg Met Thr Leu Arg Gln Glu Leu
 580 585 590
 Glu Gln Leu Gln Ser Arg Ser Lys Thr Leu Leu Gln Arg Ala Pro Ile
 595 600 605
 Trp Leu Ala Ala Gln Ser Ser Leu Asn Gln Leu Ser Glu Gln Cys Gly
 610 615 620
 Gln Glu Phe Ala Ser Ser Gln Asp Val Thr Glu Tyr Met Gln Gln Leu
 625 630 635 640
 Leu Glu Arg Glu Arg Glu Ala Ile Val Glu Arg Asp Glu Val Gly Ala
 645 650 655
 Arg Lys Arg Asp Val Asp Glu Glu Ile Glu Arg Leu Ser Gln Pro Gly
 660 665 670
 Gly Ser Glu Asp Pro Arg Leu Asn Ala Leu Ala Glu Arg Phe Gly Gly

	675							680				685				
Val	Leu	Leu	Ser	Glu	Ile	Tyr	Asp	Asp	Val	Gly	Leu	Asp	Asp	Ala	Pro	
	690					695					700					
Tyr	Phe	Ser	Ala	Leu	Tyr	Gly	Pro	Ser	Arg	Asn	Ala	Ile	Val	Val	Pro	
705					710					715					720	
Asp	Leu	Ser	Leu	Ile	Ser	Asp	Gln	Leu	Ala	Gly	Leu	Glu	Asp	Cys	Pro	
				725					730					735		
Glu	Asp	Leu	Tyr	Leu	Ile	Glu	Gly	Asp	Pro	Gln	Ser	Phe	Asp	Asp	Ser	
			740					745					750			
Val	Phe	Ser	Val	Asp	Glu	Leu	Glu	Lys	Ala	Val	Val	Val	Lys	Ile	Ala	
	755						760					765				
Asp	Arg	Gln	Trp	Arg	Tyr	Ser	Arg	Phe	Pro	Glu	Leu	Pro	Leu	Phe	Gly	
	770					775					780					
Arg	Ala	Ala	Arg	Glu	Ser	Arg	Ile	Glu	Ser	Leu	His	Ala	Glu	Arg	Glu	
785					790					795					800	
Thr	Leu	Ser	Glu	Arg	Phe	Ala	Thr	Leu	Ser	Phe	Asp	Val	Gln	Lys	Thr	
				805						810				815		
Gln	Arg	Leu	His	Gln	Ala	Phe	Ser	Arg	Phe	Ile	Gly	Ser	His	Leu	Gly	
			820					825					830			
Val	Ala	Phe	Glu	Pro	Asp	Pro	Glu	Ala	Glu	Ile	Arg	Lys	Leu	Asn	Thr	
	835						840					845				
Arg	Arg	Gly	Glu	Leu	Glu	Arg	Ala	Leu	Ala	Ser	His	Glu	Asn	Asp	Asn	
	850					855					860					
Gln	Gln	Ser	Arg	Val	Gln	Phe	Glu	Gln	Ala	Lys	Glu	Gly	Val	Ala	Ala	
865					870					875					880	
Leu	Asn	Arg	Ile	Leu	Pro	Arg	Leu	Asn	Leu	Leu	Ala	Asp	Asp	Thr	Leu	
				885					890					895		
Ala	Asp	Arg	Val	Asp	Glu	Ile	Gln	Glu	Arg	Leu	Asp	Glu	Ala	Gln	Glu	
			900					905					910			
Ala	Ala	Arg	Phe	Val	Gln	Gln	His	Gly	Asn	Gln	Leu	Ala	Lys	Leu	Glu	
	915						920					925				
Pro	Met	Val	Ser	Val	Leu	Gln	Ser	Asp	Pro	Glu	Gln	Phe	Glu	Gln	Leu	
	930					935					940					
Lys	Glu	Asp	Tyr	Ala	Trp	Ser	Gln	Gln	Val	Gln	Arg	Glu	Ala	Arg	Gln	
945					950					955					960	
Gln	Ala	Phe	Ala	Leu	Thr	Glu	Val	Val	Gln	Arg	Arg	Ala	His	Phe	Gly	
				965					970					975		
Tyr	Ser	Asp	Ser	Ala	Glu	Met	Leu	Ser	Gly	Asn	Ser	Asp	Leu	Asn	Glu	
			980					985					990			
Lys	Leu	Arg	Gln	Arg	Leu	Glu	Gln	Ala	Glu	Ala	Glu	Arg	Thr	Arg	Ala	
		995					1000					1005				
Arg	Glu	Ala	Met	Arg	Thr	His	Ala	Ala	Gln	Leu	Ser	Gln	Tyr	Ser	Gln	
	1010					1015						1020				
Val	Met	Ala	Ser	Leu	Lys	Ser	Ser	Phe	Asp	Thr	Lys	Lys	Glu	Leu	Leu	
1025					1030											

Asn Glu His Leu Arg Asp Val Leu Arg Met Ser Glu Asp Pro Lys Arg
 1170 1175 1180
 Pro Glu Arg Lys Ile Gln Phe Phe Val Ala Val Tyr Gln His Leu Arg
 1185 1190 1195 1200
 Glu Arg Ile Arg Gln Asp Ile Ile Arg Thr Asp Asp Pro Val Glu Ala
 1205 1210 1215
 Ile Glu Gln Met Glu Ile Glu Leu Gly Arg Leu Thr Glu Glu Leu Thr
 1220 1225 1230
 Ser Arg Glu Gln Lys Leu Ala Ile Ser Ser Arg Ser Val Ala Asn Ile
 1235 1240 1245
 Ile Arg Lys Thr Ile Gln Arg Glu Gln Asn Arg Ile Arg Gln Leu Asn
 1250 1255 1260
 Gln Gly Leu Gln Ser Val Ser Phe Gly Gln Val Asn Ser Val Arg Leu
 1265 1270 1275 1280
 Asn Val Asn Val Arg Glu Ala His Ser Thr Leu Leu Asp Val Leu Ser
 1285 1290 1295
 Glu Gln His Glu Gln His Gln Asp Leu Phe Asn Ser Asn Arg Leu Thr
 1300 1305 1310
 Phe Ser Glu Ala Leu Ala Lys Leu Tyr Gln Arg Leu Asn Pro Gln Ile
 1315 1320 1325
 Asp Met Gly Gln Arg Thr Pro Gln Thr Ile Gly Glu Glu Leu Leu Asp
 1330 1335 1340
 Tyr Arg Asn Tyr Leu Glu Met Glu Val Glu Val Asn Arg Gly Ser Asp
 1345 1350 1355 1360
 Gly Trp Leu Arg Ala Glu Ser Gly Ala Leu Ser Thr Gly Glu Ala Ile
 1365 1370 1375
 Gly Thr Gly Met Ser Ile Leu Val Met Val Val Gln Ser Trp Glu Asp
 1380 1385 1390
 Glu Ala Arg Arg Leu Arg Gly Lys Asp Ile Ser Pro Cys Arg Leu Leu
 1395 1400 1405
 Phe Leu Asp Glu Ala Ala Arg Leu Asp Ala Arg Ser Ile Ala Thr Leu
 1410 1415 1420
 Phe Glu Leu Cys Glu Arg Leu Asp Met Gln Leu Ile Ile Ala Ala Pro
 1425 1430 1435 1440
 Glu Asn Ile Ser Pro Glu Lys Gly Thr Thr Tyr Lys Leu Val Arg Lys
 1445 1450 1455
 Val Phe Gln Asn Ser Glu His Val His Val Val Gly Leu Arg Gly Phe
 1460 1465 1470
 Ala Pro Gln Pro Pro Glu Ser Leu Pro Gly Thr Ala Asp Ala Ser
 1475 1480 1485

<210> 7272

<211> 194

<212> PRT

<213> Enterobacter cloacae

<400> 7272

Gln Phe Leu Leu Pro Val Asp Leu Ile Ile Met Asp Lys Phe Asp Ala
 1 5 10 15
 Asn Arg Arg Lys Leu Leu Ala Leu Gly Gly Val Ala Leu Gly Ala Ala
 20 25 30
 Ala Ile Leu Pro Thr Pro Ala Phe Ala Thr Leu Ser Thr Pro Arg Pro
 35 40 45
 Arg Ile Leu Thr Leu Asn Asn Leu His Thr Gly Glu Thr Leu Lys Ala
 50 55 60
 Glu Phe Phe Asp Gly Arg Gly Tyr Ile Gln Asp Glu Leu Ala Arg Leu
 65 70 75 80
 Asn His Phe Phe Arg Asp Phe Arg Ala Asn Lys Ile Lys Ala Ile Asp
 85 90 95
 Pro Gly Leu Phe Asp Gln Leu Tyr Arg Leu Gln Gly Leu Leu Gly Thr
 100 105 110

Lys Arg Pro Val Gln Leu Ile Ser Gly Tyr Arg Ser Leu Asp Thr Asn
 115 120 125
 Asn Glu Leu Arg Ala His Ser Arg Gly Val Ala Lys Lys Ser Tyr His
 130 135 140
 Thr Lys Gly Gln Ala Met Asp Phe His Ile Glu Gly Val Ser Leu Ala
 145 150 155 160
 Asn Ile Arg Lys Ala Ala Leu Ser Met Arg Ala Gly Gly Val Gly Tyr
 165 170 175
 Tyr Pro Arg Ser Asn Phe Val His Ile Asp Thr Gly Pro Val Arg His
 180 185 190
 Trp

<210> 7273

<211> 267

<212> PRT

<213> Enterobacter cloacae

<400> 7273

Thr Arg Arg Cys Ala Trp Ala Ser His Lys Pro Ile Ser Pro Asp Cys
 1 5 10 15
 Arg Arg Ser Gly Ser Arg Leu Thr Ile Thr Glu Pro Arg Tyr Arg Arg
 20 25 30
 Met Ser Leu Thr Asn Ile Glu Gln Val Met Pro Val Lys Leu Ala Gln
 35 40 45
 Ala Leu Ala Asn Pro Leu Phe Pro Ala Leu Asp Ser Gln Leu Arg Ala
 50 55 60
 Gly Arg His Ile Gly Leu Asp Glu Leu Asp Asn His Ala Phe Leu Met
 65 70 75 80
 Asp Phe Gln Glu Tyr Leu Glu Glu Phe Tyr Ala Arg Tyr Asn Val Glu
 85 90 95
 Leu Ile Arg Ala Pro Glu Gly Phe Phe Tyr Leu Arg Pro Arg Ser Thr
 100 105 110
 Thr Leu Ile Pro Arg Ser Val Leu Ser Glu Leu Asp Met Met Val Gly
 115 120 125
 Lys Ile Leu Cys Tyr Leu Tyr Leu Ser Pro Glu Arg Leu Ala Asn Glu
 130 135 140
 Gly Ile Phe Thr Gln Gln Glu Leu Tyr Asp Glu Leu Leu Ser Leu Ala
 145 150 155 160
 Asp Glu Ser Lys Leu Leu Lys Leu Val Asn Asn Arg Ser Thr Gly Ser
 165 170 175
 Asp Leu Asp Arg Gln Lys Leu Gln Glu Lys Val Arg Ser Ser Leu Asn
 180 185 190
 Arg Leu Arg Arg Leu Gly Met Val Trp Phe Met Gly His Asp Ser Ser
 195 200 205
 Lys Phe Arg Ile Thr Glu Ser Val Phe Arg Phe Gly Ala Asp Val Arg
 210 215 220
 Ala Gly Asp Asp Ala Arg Glu Ala Gln Leu Arg Met Ile Arg Asp Gly
 225 230 235 240
 Glu Ala Met Pro Val Glu Asn His Leu Gln Leu Asn Asp Glu His Glu
 245 250 255
 Glu Asn Gln Pro Asp Ser Gly Glu Glu
 260 265

<210> 7274

<211> 75

<212> PRT

<213> Enterobacter cloacae

<400> 7274

Ser Ala Lys Pro Pro Thr Thr Trp Arg Arg Thr Ile Cys Ala Thr Pro

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1           5           10           15
Thr Ser Ala Val Phe Ile Ser Ile Arg Arg Trp Ser Ile Ala Ala Ser
          20          25          30
Cys Leu Pro Pro Ala Asn Ser Trp Trp Pro Ser Ser Ile Ser Met Ser
          35          40          45
Lys Trp Arg Ala Asn Trp Ala Ser Thr Met Val Leu Lys Gly Ile Trp
          50          55          60
Lys Pro Ile Thr Arg Arg Pro Ala Ile Ile
65          70          75

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<210> 7275

<211> 110

<212> PRT

<213> Enterobacter cloacae

<400> 7275

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Trp Trp Cys Arg Ala Gly Lys Met Lys Arg Ala Val Cys Ala Ala Lys
1           5           10           15
Thr Ser Leu His Val Val Cys Cys Ser Ser Met Lys Pro Arg Val Ser
          20          25          30
Thr Pro Ala Pro Ser Pro Arg Cys Leu Ser Phe Ala Ser Asp Ser Ile
          35          40          45
Cys Ser Ser Ser Ser Arg Arg Arg Lys Thr Ser Val Arg Lys Lys Gly
          50          55          60
Gln Pro Ile Ser Trp Cys Val Arg Cys Ser Arg Thr Val Asn Thr Cys
65          70          75          80
Thr Ser Trp Ala Cys Val Val Ser Pro Arg Ser His Arg Ser His Tyr
          85          90          95
Arg Ala Arg Leu Thr Pro Leu Asn Leu Gly Cys Asp Lys
          100          105          110

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<210> 7276

<211> 636

<212> PRT

<213> Enterobacter cloacae

<400> 7276

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Gly Lys Ala Ala Cys Met Pro Phe Tyr Thr Glu Gly Lys Leu Gln
1           5           10           15
Asn Thr Gly His Val Val Lys Asn Arg Gly Gln Gly Met Leu Leu Lys
          20          25          30
Lys Asn Arg Gly Arg Gln Leu Ser Ala Leu Ser Leu Cys Leu Thr Val
          35          40          45
Met Phe Ala Pro Leu Phe Thr Ala Gln Ala Asp Glu Pro Glu Ile Val
          50          55          60
Pro Thr Asp Ser Ser Ala Thr Met Gly Ala Gln Pro Thr Ser Leu Ser
65          70          75          80
Gln Pro Leu Asp Gln Ser Pro Ala Thr Ala Ile Met Ala Gly Ile Lys
          85          90          95
Pro Leu Pro Glu Gly Ile Asp Thr Gly Ser Leu Arg Gln Gln Leu Met
          100          105          110
Thr Gly Leu Pro Ser Gly Tyr Thr Pro Ala Tyr Ile Asn Gln Leu Thr
          115          120          125
Leu Leu Tyr Ala Ala Arg Asp Met Lys Pro Met Trp Glu Asn Arg Glu
          130          135          140
Ala Val Arg Ala Phe Gln Gln Gln Leu Ala Glu Val Ala Ile Ala Gly
145          150          155          160
Phe Gln Pro Gln Phe Thr Thr Trp Val Glu Leu Leu Thr Asp Pro Ala
          165          170          175
Val Thr Gly Gln Ala Arg Asp Val Val Leu Ser Asp Ala Met Met Gly
          180          185          190

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Tyr Leu Gln Phe Val Ala Gly Ile Ser Val Asn Gly Asn Arg Trp Leu
 195 200 205
 Tyr Ser Ser Lys Pro Tyr Lys Leu Ala Thr Pro Ala Leu Ser Val Ile
 210 215 220
 Asn Gln Trp Gln Leu Ser Leu Asp Asn Gly Glu Leu Pro Arg Phe Ile
 225 230 235 240
 Ala Ser Leu Ala Pro Ala His Pro Gln Tyr Ala Thr Met His Gln Ser
 245 250 255
 Leu Leu Glu Leu Val Ala Asp Ser Arg Pro Trp Pro Gln Leu Arg Gly
 260 265 270
 Thr Thr Thr Leu Arg Pro Gly Gln Trp Ser Ser Asp Val Pro Ala Ile
 275 280 285
 Arg Glu Ile Met Lys Arg Ser Gly Ile Leu Asp Ser Gly Pro Lys Ile
 290 295 300
 Ala Leu Pro Gly Asp Glu Thr Gln Asn Ala Val Val Ser Pro Ser Ala
 305 310 315 320
 Pro Val Lys Glu Lys Thr Ala Val Ala Leu Ser Asn Lys Pro Ala Ala
 325 330 335
 Tyr Asp Arg Glu Leu Val Ala Ala Val Lys Gln Phe Gln Ala Ala Gln
 340 345 350
 Gly Leu Gly Ala Asp Gly Val Ile Gly Pro Ser Thr Arg Asp Trp Leu
 355 360 365
 Asn Val Ser Pro Ala Gln Arg Ala Gly Val Leu Ala Leu Asn Ile Gln
 370 375 380
 Arg Leu Arg Leu Leu Pro Gly Thr Leu Ser Thr Gly Ile Met Val Asn
 385 390 395 400
 Ile Pro Ala Tyr Ser Leu Val Tyr Tyr Gln Asp Gly Ser Glu Val Leu
 405 410 415
 Ala Ser Arg Val Ile Val Gly Arg Pro Asp Arg Lys Thr Pro Met Met
 420 425 430
 Ser Ser Ala Leu Asn Asn Val Val Val Asn Pro Pro Trp Asn Val Pro
 435 440 445
 Pro Thr Leu Ala Arg Lys Asp Ile Leu Pro Lys Val Trp Asn Asp Pro
 450 455 460
 Gly Tyr Leu Glu Arg His Asn Tyr Thr Val Met Arg Gly Trp Asn Ser
 465 470 475 480
 Lys Glu Ala Ile Asp Pro Trp Met Val Asp Trp Ser Thr Ile Thr Pro
 485 490 495
 Ser Asn Leu Pro Phe Arg Phe Gln Gln Ala Pro Gly Ala His Asn Ser
 500 505 510
 Leu Gly Arg Tyr Lys Phe Asn Met Pro Ser Ser Asp Ala Ile Tyr Leu
 515 520 525
 His Asp Thr Pro Asn His Asn Leu Phe Gln Lys Asp Ala Arg Ala Leu
 530 535 540
 Ser Ser Gly Cys Val Arg Val Asn Lys Ala Ser Glu Leu Ala Asn Met
 545 550 555 560
 Leu Leu Gln Asp Ala Gly Trp Asn Asp Thr Arg Ile Ser Asp Ala Leu
 565 570 575
 Lys Gln Gly Asp Thr Arg Tyr Val Asn Ile Arg His Asn Ile Pro Val
 580 585 590
 Asn Leu Tyr Tyr Leu Thr Ala Phe Val Gly Ala Asp Gly Arg Thr Gln
 595 600 605
 Tyr Arg Thr Asp Ile Tyr Asn Tyr Asp Leu Thr Ala Arg Ser Gly Ala
 610 615 620
 Gln Ile Leu Pro Lys Ala Glu Gln Leu Ile Arg
 625 630 635

<210> 7277

<211> 231

<212> PRT

<213> Enterobacter cloacae

<400> 7277

Tyr Arg Ala Gly Ser Ala Leu Val Ile Thr Lys His Arg Ser Ser Met
 1 5 10 15
 Asn Tyr Arg Ile Ile Pro Val Thr Ala Phe Ser Gln Asn Cys Ser Leu
 20 25 30
 Ile Trp Cys Glu Gln Thr Lys Leu Ala Ala Leu Val Asp Pro Gly Gly
 35 40 45
 Asp Ala Glu Thr Ile Lys Gln Glu Val Ala Ala Ser Gly Val Thr Leu
 50 55 60
 Met Gln Ile Leu Leu Thr His Gly His Leu Asp His Val Gly Ala Ala
 65 70 75 80
 Ala Glu Leu Ala Glu His Tyr Gly Val Pro Ile Ile Gly Pro Glu Lys
 85 90 95
 Glu Asp Glu Phe Trp Leu Gln Gly Leu Pro Ala Gln Ser Arg Met Phe
 100 105 110
 Gly Leu Glu Asp Cys Gln Pro Leu Thr Pro Asp Arg Trp Leu Asn Glu
 115 120 125
 Asp Asp Arg Val Asn Val Gly Asn Val Thr Leu Gln Val Leu His Cys
 130 135 140
 Pro Gly His Thr Pro Gly His Ile Val Phe Phe Asp Asp Val Ser Arg
 145 150 155 160
 Leu Leu Ile Ser Gly Asp Val Ile Phe Lys Gly Gly Val Gly Arg Ser
 165 170 175
 Asp Phe Pro Arg Gly Asp His Gly Gln Leu Ile Gln Ser Ile Lys Gln
 180 185 190
 Lys Leu Leu Pro Leu Gly Asp Asp Val Thr Phe Ile Pro Gly His Gly
 195 200 205
 Pro Met Ser Thr Leu Gly Asp Glu Arg Leu His Asn Pro Phe Leu Gln
 210 215 220
 Asp Glu Met Pro Val Trp
 225 230

<210> 7278

<211> 406

<212> PRT

<213> Enterobacter cloacae

<400> 7278

Gly Cys Arg Leu Gln His Arg Asp Asn Gly Phe Ala Gln Arg Arg His
 1 5 10 15
 Val Val Arg Arg His Thr Cys Asn Val His Ala Ala Arg Cys Asn Gly
 20 25 30
 Ile His Ala Lys Leu Phe Thr Gln Ala Gln His Leu Leu Phe Gly Gln
 35 40 45
 Ala Ala Glu Gly Glu His Ala Val Leu Leu Asp Asp Glu Ala Glu Val
 50 55 60
 Thr Val Ser Ala Phe Leu Ser Gln Arg Val His Lys Gln Gln Thr His
 65 70 75 80
 Ala Leu Asn Ala Leu Thr His Ile Val Gln Leu Leu Leu Pro Asp Gly
 85 90 95
 Ala Gln Arg Ile Val Ala Gln Asp Arg Arg Asp His Arg Arg Thr Val
 100 105 110
 Cys Arg Trp Val Gly Val Val Ser Ala Asp His Gly Leu His Leu Ala
 115 120 125
 Glu Cys Ala Ile Asp Gly Cys Phe Val Ser Ser His Gln Arg Thr Gly
 130 135 140
 Ala Asp Thr Leu Val Ile Gln Thr Lys Val Leu Gly Ile Gly Ala Cys
 145 150 155 160
 Asp Tyr Gln Leu Leu Met His Gly Gly Glu Cys Ala Gln Thr Phe Cys
 165 170 175

Ile Phe Phe Gln Thr Thr Gly Lys Ala Leu Val Ser Glu Val Lys Gln
 180 185 190
 Arg Gln Pro Ala Phe Phe Asn Gly Gln Leu Ser Gln Leu Phe Pro Leu
 195 200 205
 Leu Lys Arg Arg Ile Asp Thr Gly Trp Val Met Ala Ala Val Glu
 210 215 220
 Gln His His Ile Ala Arg Leu Gly Phe Ala Gln Ala Gly Gln Gln Ala
 225 230 235 240
 Val Glu Ile Gln Arg Val Ala Gly Cys Val Val Val Gly Val Phe Thr
 245 250 255
 His Phe Gln Thr Arg Arg Ile Lys His Ala Leu Met Val Arg Pro Ala
 260 265 270
 Trp Ile Ala Tyr Pro His Thr Leu His Arg Ser Val Phe Arg Gln Glu
 275 280 285
 Ile Cys Arg His Ala Gln Cys Ala Gly Thr Ala Trp Gly Leu Arg Arg
 290 295 300
 Ala Gly Ala Phe Phe Ala His Asn Gly Ala Ala Phe Ala Glu Gln Gln
 305 310 315 320
 Leu Leu Gly Ala Ala Thr Lys Phe Arg Asp Thr Ile Asn Thr Glu Val
 325 330 335
 Val Phe Gly Gly Phe Val Phe Gln Gln Ile Leu Leu Ser Phe Phe Asp
 340 345 350
 Ala Gly Gln Tyr Arg Ser Phe Ala Gly Phe Ile Phe Ile Tyr Thr Asn
 355 360 365
 Thr Gln Val Asp Phe Ser Arg Ala Val Val Gly Ala Lys Gln Ile Gly
 370 375 380
 Gln Ala Gln Asn Trp Val Gly Arg Ser Gly Ser Asn Val Leu Lys His
 385 390 395 400
 Asp Glu Val Pro Leu
 405

<210> 7279

<211> 464

<212> PRT

<213> Enterobacter cloacae

<400> 7279

Asp Met Lys Pro Gly Tyr His Glu Ile Tyr Ser Arg Tyr Arg Asp Asn
 1 5 10 15
 Ile Met Arg Gly Val Leu Lys Pro Gly Asp Arg Val Pro Ala Ile Arg
 20 25 30
 Leu Leu Ala Glu Glu Leu Lys Val Ala Arg Lys Thr Val Glu Thr Ala
 35 40 45
 Tyr Ala Ile Leu Thr Gly Glu Gly Tyr Leu Val Ser Gln Gly Ala Arg
 50 55 60
 Gly Thr Arg Val Asn Pro Asp Leu Leu Leu Pro Ala Gln Asn Ala Pro
 65 70 75 80
 Thr Glu Gln Ala Thr Gly Thr Leu Pro Ala Ser Leu Ile Ser Gln Arg
 85 90 95
 Glu Arg Ala Gly Phe Leu Arg Pro Gly Ile Pro Ala Leu Asp Ser Phe
 100 105 110
 Pro Tyr Lys Lys Trp Leu Leu Leu Ala Gly Gln Ala Thr Arg Ala Met
 115 120 125
 Arg Gln Asp Glu Met Leu Asn Pro Pro Val Leu Gly Trp Tyr Pro Leu
 130 135 140
 Arg Glu Ala Ile Ala Arg Tyr Leu Asn Ile Ser Arg Gly Leu Ser Cys
 145 150 155 160
 Thr Ala Glu Gln Val Met Ile Thr Ser Gly Tyr Ser Gly Ser Leu Arg
 165 170 175
 Leu Ile Leu Asp Thr Leu Ala Ser Arg Ser Asp Lys Val Val Phe Glu
 180 185 190


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Asp Pro Gly Tyr Phe Met Gly Gln Gln Leu Leu Lys Arg Ile Val Pro
195 200 205
Arg Leu His Thr Val Pro Val Asp Arg Ala Gly Met Asp Thr Asp Tyr
210 215 220
Leu Leu Arg Asn His His Asp Ala Arg Phe Ala Ile Val Thr Pro Ser
225 230 235 240
His Gln Ser Pro Leu Ala Val Thr Leu Ser Leu Pro Arg Lys Gln Gln
245 250 255
Leu Leu Asp Trp Ala Ser Gln Asn Glu Ala Trp Ile Ile Glu Asp Asp
260 265 270
Tyr Asp Gly Glu Phe His Tyr Thr Arg Lys Val Leu Pro Ser Leu Lys
275 280 285
Ser Leu Asp Gln His Asp Arg Val Ile Phe Met Gly Thr Phe Ser Lys
290 295 300
Thr Ile Met Pro Ser Leu Arg Met Gly Tyr Val Val Met Pro Ala Ser
305 310 315 320
Thr Val Gly Val Phe Thr Asp Ser Ala Asp Ile Leu Thr Ser Gly Gln
325 330 335
Pro Val Leu Thr Gln Lys Ile Leu Thr Ala Phe Leu Asn Glu Gly His
340 345 350
Phe Phe Arg His Leu Lys Lys Met Arg Ala Leu Tyr Gln Thr Arg Arg
355 360 365
Asp Trp Met Ile Ala Ala Leu Arg Glu Val Tyr Gly Asp Leu Phe Phe
370 375 380
Thr Glu Gln Asn Asp Gly Gly Met His Ile Val Ala Phe Leu Ala Lys
385 390 395 400
Gly Ser Ala Asp Arg Glu Ile Ala Arg Cys Trp Gln Glu Gln Gln Leu
405 410 415
Gln Val Asn Ala Leu Ser Gly Trp Tyr His Gly Ser Gly Lys Arg Tyr
420 425 430
Gly Leu Val Met Gly Tyr Asn Asn Val Arg Ser Tyr Gln Glu Ala Leu
435 440 445
Asp Leu Leu Glu Arg Pro Lys Arg Gln Thr Leu Glu Leu Leu Ser
450 455 460

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<210> 7280

<211> 529

<212> PRT

<213> Enterobacter cloacae

<400> 7280

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Cys Ser Pro Arg Tyr Ala Ser Gly Val Ile Ile Met Glu Asn Gly Gln
1 5 10 15
Tyr Asn Thr Asp Ser Lys Thr Ala Phe Val Tyr His Thr Asp Pro Leu
20 25 30
Lys Arg Tyr Leu His Gly Gly Leu Phe Ile His Leu Tyr Trp Phe Asn
35 40 45
Ala Leu Tyr Gly Glu Asn Lys Gly Tyr Ser Met Thr Arg Tyr Gln His
50 55 60
Leu Ala Asn Leu Leu Ala Glu Arg Ile Glu Gln Gly Leu Tyr Arg Ser
65 70 75 80
Gly Glu Arg Leu Pro Ser Val Arg Thr Leu Ser Gln Glu His Gly Val
85 90 95
Ser Ile Ser Thr Ile Gln Gln Ala Tyr Gln Ile Leu Glu Asn Leu Gln
100 105 110
Leu Ile Thr Pro Gln Pro Arg Ser Gly Tyr Phe Val Ser Lys Arg Lys
115 120 125
Ala Gln Pro Pro Val Pro Ala Met Thr Arg Pro Val Gln Arg Pro Val
130 135 140
Asp Val Thr Gln Trp Asp Glu Val Met Met Leu Leu Asp Ala Arg Ala
145 150 155 160

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Asp Lys Glu Met Ile Ser Phe Gly Gly Gly Ser Pro Asp Ile Asn Gln
 165 170 175
 Pro Ser Leu Lys Pro Leu Trp Arg Glu Met Ser Arg Ile Ala Gln His
 180 185 190
 Asn Pro Gly Glu Met Leu Ser Tyr Asp Val Leu Asp Gly Arg Leu Glu
 195 200 205
 Leu Arg Glu Gln Ile Ala Arg Leu Met Leu Asp Gly Gly Ser Thr Val
 210 215 220
 Ala Ala Asn Glu Ile Val Ile Thr Asn Gly Cys His Gly Ala Leu Ser
 225 230 235 240
 Ile Ala Leu Leu Ser Val Cys Lys Pro Gly Asp Ile Val Ala Val Glu
 245 250 255
 Ser Pro Ser Phe His Gly Thr Met Gln Met Leu Arg Gly Phe Asp Ile
 260 265 270
 Lys Ala Ile Glu Ile Pro Thr Asp Pro Glu Thr Gly Ile Ser Ile Glu
 275 280 285
 Ala Leu Glu Leu Ala Leu Glu Gln Trp Pro Ile Lys Ala Val Ile Leu
 290 295 300
 Val Pro Asn Cys Asn Asn Pro Leu Gly Phe Ile Met Pro Glu Ala Arg
 305 310 315 320
 Lys Lys Gln Val Leu Ala Leu Ala Gln Arg His Asp Ile Val Ile Val
 325 330 335
 Glu Asp Asp Ile Tyr Gly Glu Leu Ala Ala Glu Tyr Pro Arg Pro Arg
 340 345 350
 Thr Ile His Ser Met Asp Ile Asp Gly Arg Val Leu Leu Cys Ser Ser
 355 360 365
 Phe Thr Lys Thr Val Ala Pro Gly Leu Arg Val Gly Trp Ile Val Pro
 370 375 380
 Gly Arg Tyr Tyr Asp Arg Val Met His Met Lys Tyr Ala Ala Gly Gly
 385 390 395 400
 Phe Asn Val Pro Gly Thr Gln Met Ala Val Ala Ala Phe Ile Arg Asp
 405 410 415
 Gly His Tyr His Arg His Val Arg Arg Met Arg Gln Ile Tyr Gln Gln
 420 425 430
 Asn Met Glu Thr Tyr Thr Cys Trp Val Arg Gln Tyr Phe Pro Ala Glu
 435 440 445
 Ile Cys Val Thr Arg Pro Gln Gly Ser Phe Leu Leu Trp Val Glu Leu
 450 455 460
 Pro Glu Thr Val Asp Met Val Cys Val Ser Lys Gln Leu Cys Arg Leu
 465 470 475 480
 Lys Ile Gln Ala Ala Ala Gly Ser Leu Phe Ser Ala Ser Gly Lys Tyr
 485 490 495
 Arg Asn Cys Leu Arg Ile Asn Val Ala Leu Pro Pro Thr Asp Lys Asn
 500 505 510
 Arg Glu Ala Leu Lys Lys Met Ser Thr Arg Arg Gly Gly Val Pro Arg
 515 520 525
 Leu

<210> 7281

<211> 425

<212> PRT

<213> Enterobacter cloacae

<400> 7281

Pro Met Glu Lys His Thr Glu Leu Lys Arg Ala Lys Leu Leu Ala Leu
 1 5 10 15
 Ser Leu Leu Leu Ile Ala Val Ala Ala Phe Ile Thr Thr Leu Phe Met
 20 25 30
 Pro Gln Thr Phe Trp Val Arg Gly Val Lys Ala Ile Ala Glu Ala Ala
 35 40 45

```

Met Val Gly Ala Leu Ala Asp Trp Phe Ala Val Val Ala Leu Phe Arg
 50                      55                      60
Arg Val Pro Ile Pro Phe Ile Ser Arg His Thr Ala Ile Ile Pro Arg
65                      70                      75                      80
Asn Lys Asp Arg Ile Gly Asp Asn Leu Gly Gln Phe Val Gln Glu Lys
      85                      90                      95
Phe Leu Asp Thr Gln Ser Leu Val Asp Leu Ile Arg Arg Tyr Glu Pro
      100                      105                      110
Ala Gln Met Ile Gly Thr Trp Phe Ser Gln Pro Asp Asn Ala Arg Arg
      115                      120                      125
Val Gly Gln His Leu Val Gln Val Met Gly Gly Phe Leu Glu Leu Thr
      130                      135                      140
Asp Asp Gly Arg Ile Gln Arg Leu Leu Lys Arg Ala Val His Lys Ala
145                      150                      155                      160
Ile Asp Lys Val Asp Leu Thr Glu Thr Ser Ala Val Met Leu Glu Ser
      165                      170                      175
Met Thr Lys Asn Asn Arg His Gln Val Leu Leu Asp Ala Ile Ile Asn
      180                      185                      190
Arg Leu Ile Thr Leu Ile Gln Arg Glu Ser Thr Arg Glu Phe Ile Ala
      195                      200                      205
Asp Gln Ile Val His Trp Leu Lys Thr Glu His Pro Arg Lys Ala Met
      210                      215                      220
Val Leu Pro Thr Glu Trp Leu Gly Asp Gln Ser Ala Glu Met Val Ser
225                      230                      235                      240
Asn Ala Val Asn Thr Leu Leu Asp Asp Ile Ser His Asp Arg Thr His
      245                      250                      255
Gln Ile Arg Gln Ala Phe Asp Arg Ala Thr Ile Lys Phe Ile Asp Asn
      260                      265                      270
Leu Lys Asn Asp Pro Glu Met Thr Ala Lys Ala Glu Asn Ile Lys His
      275                      280                      285
Tyr Leu Lys Asn Asp Glu Ala Phe Asn Arg Tyr Leu Gly Glu Met Trp
      290                      295                      300
Ala Asp Leu Arg Gln Trp Leu Lys Asn Asp Met Gln Ser Asp Asp Ser
305                      310                      315                      320
Arg Val Lys Gln Arg Ile Ala Asn Ala Gly Leu Trp Phe Gly Glu Thr
      325                      330                      335
Leu Thr Asn Asp Ala Ser Leu Arg Ala Ser Leu Asn Glu His Leu Glu
      340                      345                      350
Gln Ala Ala His Arg Val Ala Pro Asp Phe Ala Ala Phe Leu Thr Arg
      355                      360                      365
His Ile Ser Asp Thr Val Lys Ser Trp Asp Ala Lys Asp Met Ser Arg
      370                      375                      380
Gln Ile Glu Leu Asn Ile Gly Lys Asp Leu Gln Phe Ile Arg Val Asn
385                      390                      395                      400
Gly Thr Leu Val Gly Gly Thr Ile Gly Leu Ile Leu Phe Leu Leu Ser
      405                      410                      415
Gln Leu Pro Ala Val Leu Gly His
      420                      425

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<210> 7282

<211> 176

<212> PRT

<213> Enterobacter cloacae

<400> 7282

```

Gly Thr Arg Met Arg Val Pro Ala Thr His Ala Cys Pro Leu Phe Ile
1                      5                      10                      15
Asn Pro Ala Trp Ile Thr Cys Gly Ile Ala Cys Ser Arg Ser Thr Ser
      20                      25                      30
Ser Ser Arg Ile Val Gly Asp Leu Pro Pro Asn Ser Ser Val Thr Arg
      35                      40                      45

```

Leu Lys Leu Ser Ala Ala Leu Arg Arg Ile Ala Leu Pro Val Phe Val
 50 55 60
 Glu Pro Val Asn Glu Ile Phe Ala Thr Ser Gly Trp Arg Leu Arg Val
 65 70 75 80
 Ser Pro Thr Val Ser Pro Arg Pro Val Thr Met Leu Asn Thr Pro Gly
 85 90 95
 Gly Ser Ala Ala Ser Arg Ser Ala Ser Val Thr Ile Cys Val Cys Arg
 100 105 110
 Ala Leu Ile Ser Leu Gly Leu Met Thr Ala Val Gln Pro Ala Ala Ser
 115 120 125
 Ala Ala Ala Ser Leu Pro Gln Ile Asn Pro Ala Ser Leu Phe His Gly
 130 135 140
 Val Ile Ser Pro Ala Thr Pro Ser Gly Val Ile Cys Thr Val Ala Ala
 145 150 155 160
 Pro Ala Glu Val Thr Asn Ser Asn Ala Ser Ser Ala Ser Met Ala
 165 170 175

<210> 7283

<211> 302

<212> PRT

<213> *Enterobacter cloacae*

<400> 7283

Ser Met His Arg Ser Gly Leu Thr Glu Leu Glu Val Val Met Ala Val
 1 5 10 15
 Val Arg Arg Gly Ser Phe Arg Gly Ala Ala Gln Glu Leu Gly Met Ser
 20 25 30
 Ala Thr Ala Val Ser Asn Ala Ile Ala Gly Leu Glu Ser Arg Leu Glu
 35 40 45
 Thr Arg Leu Phe Asn Arg Thr Thr Arg Ser Val Ala Leu Thr Asp Ala
 50 55 60
 Gly Gln Arg Tyr Val Ala Arg Ile Gly Pro Ala Leu Gln Glu Ile Arg
 65 70 75 80
 Leu Ala Gly Glu Glu Ile His Ser Asp Thr Gly Glu Pro Ala Gly Thr
 85 90 95
 Leu Arg Leu Asp Val Pro Asn His Ile Gly Thr Leu Phe Leu Asp Gln
 100 105 110
 Leu Leu Ile Asp Phe Met Ile Arg Tyr Pro Lys Met Arg Val Glu Thr
 115 120 125
 Val Ser Glu Ala Arg Met Ile Asp Ile Val Ala Glu Gly Tyr Asp Ala
 130 135 140
 Gly Ile Arg Leu Glu Glu Ser Val Pro Gln Asp Met Ile Ala Val Pro
 145 150 155 160
 Leu Thr Gly Glu Ile Arg Gln Leu Val Thr Ala Thr Pro Asp Tyr Phe
 165 170 175
 Ala Arg His Gly Ile Pro Glu Thr Pro Asp Asp Leu Leu Ser His Gln
 180 185 190
 Gly Ile Gly Met Arg Met Ala His Gly Gly Ile Tyr Arg Trp Glu Leu
 195 200 205
 Ala Arg Arg Gly Glu Thr Tyr Ala Leu Ala Val Pro Pro Arg Phe Ala
 210 215 220
 Thr Ser Asp Leu Phe Ala Ser Ile Arg Ala Val Lys Ala Gly Leu Gly
 225 230 235 240
 Val Gly Phe Leu Pro Glu Leu Tyr Ile Gln Asp Glu Leu Lys Ser Gly
 245 250 255
 Glu Leu Val Ser Val Leu Asn Asp Trp Ala Gln Pro Phe Ala Gly Leu
 260 265 270
 Arg Leu Tyr Tyr Pro Gly His Arg His Val Pro Pro Gly Leu Arg Ala
 275 280 285
 Leu Val Ala Met Ile Arg Glu Arg Gly Ile Ile Pro Gly
 290 295 300

<210> 7284
 <211> 350
 <212> PRT
 <213> Enterobacter cloacae

<400> 7284

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Pro Ala Arg Asp Ile Glu Ile Ala Gly Tyr Arg Leu Ala Gln Arg Ile
1      5      10      15
Pro Ala Gln Asn Gly Arg Val Glu His Phe Ile Leu Thr His Gly Ala
20     25     30
Arg Arg Leu Ala Arg Gln Gln Gln Pro Phe Phe Ile Gly Glu Ala Val
35     40     45
Glu Gly Gly Asn Ala Gly Ala Gln Lys Thr Gly Pro Phe Ala Leu Ala
50     55     60
Asn Gln Arg Arg Arg Gln Arg Ala Gly Arg Leu Phe Cys Gly Gly Val
65     70     75     80
Leu Arg Gly Gln Gln Lys Ile Arg Ile His Pro Arg Pro Ala Arg Ala
85     90     95
Leu Ala His Gln Ile Pro Phe Ala Arg Gln Asn Gly Ile Arg Arg Leu
100    105    110
Asp Gly Phe Ala Arg His Leu Gln Leu Phe Arg Gln Gln Ala Asp Gly
115    120    125
Arg Tyr Pro Val Ala Arg Leu Gln His Ala Ala His Asp Val Val Ala
130    135    140
Ile Ala Gly Ile Asn Leu Val Ile Ala Arg Leu His Val Leu Pro Asn
145    150    155    160
Phe Thr Leu Phe Val Ser Phe Tyr Tyr Val Met Asn Gly Val Asp Leu
165    170    175
Leu His Arg Met Thr His Ala Ala Gln Lys Arg Gly Lys Thr Met Ser
180    185    190
Thr Arg Val Asn His His Lys Ala Thr Pro Ala Leu Thr Asn Ala Leu
195    200    205
Ser Ala Leu Ser Met Glu Val Ala Lys Thr Ser Ile Asp Pro Ala Leu
210    215    220
Lys His Leu Ile Asp Ile Arg Val Ser Gln Leu Asn Gly Cys Thr Phe
225    230    235    240
Cys Leu Asp Met His Ser Lys Glu Ala Lys Ile Ala Gly Glu Arg Glu
245    250    255
Leu Arg Leu Tyr His Leu Ala Ala Trp Arg Glu Ser Pro Leu Phe Ser
260    265    270
Ala Arg Glu Lys Ala Ala Leu Ala Phe Thr Glu Ala Leu Thr Gln Ile
275    280    285
Gly Val His Gly Val Ser Asp Ala Leu Tyr Arg Ser Val Ala Glu His
290    295    300
Phe Ser Asp Val Glu Ile Ser Glu Leu Asn Phe Ala Ile Val Ala Ile
305    310    315    320
Asn Ala Trp Asn Arg Leu Gly Ile Thr Ser Arg Met Glu Pro Gly Ser
325    330    335
Leu Asp Ala Ala Tyr Gly Leu Asn Lys Ala Asn Leu Glu
340    345    350

```

<210> 7285
 <211> 165
 <212> PRT
 <213> Enterobacter cloacae

<400> 7285

```

Trp Arg Thr Thr Arg Gly Leu Pro Met Ser Glu Glu Asp Leu Phe Ser
1      5      10      15
Arg Arg Pro Met Gly Met Arg Met Ala Met Ile Val Arg Gln Trp Arg

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<210> 7286
<211> 248
<212> PRT
<213> Enterobacter cloacae
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<210> 7287
<211> 63
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<212> PRT

<213> Enterobacter cloacae

<400> 7287

Pro	His	Trp	His	Ser	Glu	Glu	Ser	Ile	Met	Glu	Phe	Tyr	Glu	Asn	Arg
1				5					10					15	
Ser	Lys	Arg	Pro	Phe	Ile	Ala	Phe	Val	Trp	Val	Ala	Lys	Thr	Leu	Arg
			20					25					30		
Asn	Trp	Tyr	Arg	Ile	Asn	Arg	Thr	Arg	Arg	Ile	Leu	Ser	Gln	Met	Ser
		35					40					45			
Asp	Glu	Gln	Leu	Lys	Asp	Val	Gly	Leu	Ser	Arg	Tyr	Asp	Val		
	50					55					60				

<210> 7288

<211> 483

<212> PRT

<213> Enterobacter cloacae

<400> 7288

Gln	Thr	Gly	Leu	Thr	Gln	Pro	Glu	Glu	Val	Tyr	Met	His	Thr	Ile	Glu
1				5					10					15	
Gln	Ile	Phe	Ile	Asn	Gly	Glu	Phe	Val	Thr	Pro	His	Gly	Thr	Glu	Arg
			20					25					30		
Phe	Asp	Leu	Tyr	Asn	Pro	Ala	Thr	Ala	Gln	Val	Ile	Gly	Gln	Val	Arg
	35						40					45			
Leu	Ala	Asp	Glu	Val	Asp	Ala	Glu	Arg	Ala	Ile	Ala	Ala	Ala	Lys	Ala
	50					55					60				
Ala	Phe	Pro	Ala	Trp	Ser	Gln	Thr	Thr	Lys	Gln	Glu	Arg	Ile	Ala	Ala
65				70					75					80	
Leu	Lys	Arg	Met	His	Ala	Ala	Val	Ala	Ala	Arg	His	Asp	Ala	Leu	Leu
			85					90					95		
Glu	Ala	Val	Ile	Glu	Glu	Tyr	Gly	Ala	Pro	Ala	Ser	Arg	Ser	Ala	Trp
			100				105						110		
Met	Ala	Ser	Tyr	Pro	Ala	Glu	Val	Ile	Ala	Gln	Ala	Ile	Glu	Ala	Leu
	115					120						125			
Glu	Ala	Phe	Glu	Phe	Val	Thr	Ser	Ala	Gly	Ala	Ala	Thr	Val	Gln	Met
	130					135					140				
Thr	Pro	Leu	Gly	Val	Ala	Gly	Leu	Ile	Thr	Pro	Trp	Asn	Ser	Asp	Ala
145				150					155					160	
Gly	Phe	Ile	Cys	Gly	Lys	Leu	Ala	Ala	Ala	Leu	Ala	Ala	Gly	Cys	Thr
			165					170						175	
Ala	Val	Ile	Lys	Pro	Ser	Glu	Met	Ser	Ala	Leu	Gln	Thr	Gln	Ile	Val
			180					185					190		
Thr	Glu	Ala	Leu	Arg	Asp	Ala	Ala	Leu	Pro	Pro	Gly	Val	Phe	Asn	Ile
	195					200						205			
Val	Thr	Gly	Arg	Gly	Glu	Thr	Val	Gly	Glu	Thr	Leu	Ser	Arg	His	Pro
	210					215					220				
Asp	Val	Ala	Lys	Ile	Ser	Phe	Thr	Gly	Ser	Thr	Asn	Thr	Gly	Lys	Ala
225				230					235					240	
Ile	Leu	Arg	Asn	Ala	Ala	Glu	Ser	Phe	Lys	Arg	Val	Thr	Leu	Glu	Leu
			245						250					255	
Gly	Gly	Lys	Ser	Pro	Thr	Ile	Leu	Leu	Asp	Asp	Val	Asp	Leu	Glu	Gln
			260					265					270		
Ala	Ile	Pro	Gln	Val	Ile	Gln	Ala	Gly	Phe	Met	Asn	Ser	Gly	Gln	Ala
	275					280						285			
Cys	Val	Ala	Gly	Thr	Arg	Ile	Leu	Val	Pro	Tyr	Ser	Arg	Lys	Ala	Glu
	290					295					300				
Ile	Glu	Thr	Ala	Leu	Ala	Gln	Ala	Val	Ala	Ala	Val	Lys	Ser	Gly	Asp
305				310					315					320	
Pro	Arg	Asn	Ser	Thr	Thr	Asp	Val	Gly	Pro	Met	Val	Ser	Glu	Lys	Gln
				325					330					335	

Trp Leu Arg Val Gln Gly Tyr Ile Arg Lys Gly Ile Glu Glu Gly Ala
 340 345 350
 Arg Leu Leu Ala Gly Gly Glu Gly Arg Pro Glu Gly Thr Arg Asp Gly
 355 360 365
 Trp Phe Val Arg Pro Thr Leu Phe Ala Gly Val Asn Asn Arg Met Thr
 370 375 380
 Ile Ala Arg Asp Glu Ile Phe Gly Pro Val Leu Cys Val Ile Pro Tyr
 385 390 395 400
 Gln Asp Glu Ala Glu Ala Ile Ala Ile Ala Asn Asp Thr Glu Tyr Gly
 405 410 415
 Leu Ser Ala Met Val Leu Gly Gly Asp Val Asp Arg Ala Arg Arg Val
 420 425 430
 Ala Gln Gln Ile Val Ser Gly Arg Val Leu Val Asn Thr Leu Ala His
 435 440 445
 Glu Pro Lys Ala Pro Phe Gly Gly Phe Lys His Ser Gly Val Gly Arg
 450 455 460
 Glu Met Gly Glu Trp Gly Ile Arg Ala Phe Met Glu Pro Arg Ser Val
 465 470 475 480
 Leu Gly

<210> 7289

<211> 133

<212> PRT

<213> Enterobacter cloacae

<400> 7289

Ser Phe Ala Leu Tyr Arg Ser Ile Val Leu Phe His Pro Ala Phe Ser
 1 5 10 15
 Pro Gln His His Ser Gly Glu Thr Ile Met Ile Ala Val Leu Phe Glu
 20 25 30
 Ala Lys Ala Ala Pro Ala His Gln Ala Arg Tyr Leu Gln Leu Ala Ala
 35 40 45
 Glu Leu Lys Pro Leu Leu Ala Asp Ile Asp Gly Phe Ile Asp Ile Glu
 50 55 60
 Arg Phe Gln Ser Leu Thr Thr Asp Gly Lys Ile Leu Ser Leu Ser Trp
 65 70 75 80
 Trp Arg Asp Glu Glu Ala Val Arg Arg Trp Lys Gln Asn Val Phe His
 85 90 95
 Gln Ala Ala Gln Ala Glu Gly Arg Ala Leu Ile Phe Ser Phe Tyr Arg
 100 105 110
 Ile Arg Val Ala Gln Leu Val Arg Glu Tyr Ser Ser Glu Thr Gly Gly
 115 120 125
 His Ala Asp Val
 130

<210> 7290

<211> 359

<212> PRT

<213> Enterobacter cloacae

<400> 7290

Asp Arg Lys Ile Met Thr Pro Glu Gln Lys Phe Ala Arg Trp Val Arg
 1 5 10 15
 Val Ser Ile Ala Ser Phe Leu Leu Met Phe Val Tyr Phe Ile Val Ala
 20 25 30
 Asp Ile Trp Ile Pro Leu Thr Pro Asp Ser Thr Val Met Arg Val Val
 35 40 45
 Thr Pro Val Ser Ala Arg Val Ser Gly Tyr Val Ala Ala Val His Val
 50 55 60
 His Asn Asn Ser Gln Val Lys Lys Gly Asp Leu Leu Phe Glu Leu Asp


```

65          70          75          80
Ala Thr Pro Phe Arg Asn Lys Val Glu Ala Ala Gln Ile Ala Leu Glu
      85          90          95
Gln Ala Arg Leu Ser Asn Asp Gln Leu Asp Ala Gln Ile Ala Ala Ala
      100        105        110
Gln Ala Ser Leu Lys Thr Ala Val Leu Thr Ala Arg Asn Asp Lys Val
      115        120        125
Thr Phe Asp Arg Tyr Gln Lys Leu Ser Thr Leu Gln Asn Val Ser Gln
      130        135        140
Ala Asp Leu Asp Lys Val Arg Thr Thr Trp Gln Ser Ser Glu Gln Ser
145      150      155      160
Val Ser Ser Ile Gln Ala Asn Ile His Asn Leu Arg Ile Gln Arg Gly
      165        170        175
Glu Arg Asp Glu His Arg Asn Val Thr Leu Gln Lys Tyr Arg Asn Ala
      180        185        190
Leu Asp Glu Ala Glu Leu Asn Leu Gly Trp Thr Lys Val Tyr Ala Glu
      195        200        205
Ala Asp Gly Thr Val Ser Asn Leu Gln Leu Ser Pro Gly Phe Tyr Ala
210      215      220
Ser Ser Gly Ser Ala Ala Leu Ala Leu Val Asn Thr Arg Ile Asp Ile
225      230      235      240
Val Ala Asp Phe Arg Glu Lys Ser Leu Arg His Thr His Gln Gly Thr
      245        250        255
Asp Ala Ala Val Val Phe Asp Ala Phe Pro Gly His Val Phe Arg Ala
      260        265        270
His Val Thr Ser Ser Asp Ala Gly Ile Leu Ala Gly Gln Glu Ala Val
      275        280        285
Asn Gly Gln Leu Ser Glu Pro Glu Thr Ser Asn Arg Trp Val Arg Asp
290      295      300
Ala Gln Arg Met Arg Ile His Val Ala Leu Asp Glu Ala Leu Pro Lys
305      310      315      320
Pro Leu Pro Thr Gly Ala Arg Ala Thr Val Gln Leu Tyr Asn Ser Glu
      325        330        335
Gly Pro Phe Ala Arg Phe Phe Ser Gly Met Gln Ile His Leu Val Ser
      340        345        350
Leu Leu His Tyr Val Tyr
      355

```

<210> 7291

<211> 316

<212> PRT

<213> Enterobacter cloacae

<400> 7291

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Lys Arg Pro Gln Asn Asn Glu Glu Ser Arg Met Thr Met Ile Lys Gly
1      5      10      15
Ile Thr Gly Ser Ala Val Leu Leu Ala Leu Ser Leu Pro Leu Gln
      20      25      30
Ala Ala Glu Pro Val Lys Val Gly Ser Lys Ile Asp Thr Glu Gly Ala
      35      40      45
Leu Leu Gly Asn Ile Ile Leu Gln Val Leu Glu Ser His Gly Val Lys
      50      55      60
Thr Val Asn Lys Val Gln Leu Gly Thr Thr Pro Val Val Arg Gly Ala
65      70      75      80
Ile Thr Ser Gly Glu Leu Asp Ile Tyr Pro Glu Tyr Thr Gly Asn Gly
      85      90      95
Ala Phe Phe Phe Lys Asp Glu Asn Asp Pro Ala Trp Lys Asn Ala Lys
      100      105      110
Ala Gly Tyr Glu Lys Val Lys Lys Leu Asp Ala Glu Lys Asn Lys Leu
      115      120      125
Val Trp Leu Thr Pro Ala Pro Ala Asn Asn Thr Trp Thr Ile Ala Val

```

130		135		140
Arg Lys Asp Ile Ala Glu Lys Gly Lys Leu Thr Ser Leu Asp Asp Leu				
145		150		155
Ser Arg Tyr Leu Lys Glu Lys Gly Glu Phe Lys Leu Ala Ala Ser Ala				
	165		170	175
Glu Phe Ile Glu Arg Ala Asp Ala Leu Pro Ala Phe Glu Lys Ala Tyr				
	180		185	190
Asp Phe Lys Leu Asp Gln Ala Gln Leu Leu Ser Leu Ala Gly Gly Asp				
	195		200	205
Thr Ala Val Thr Ile Lys Ala Ala Gln Gln Thr Ser Gly Val Asn				
	210		215	220
Ala Ala Met Ala Tyr Gly Thr Asp Gly Pro Val Ala Ala Leu Gly Leu				
225		230		235
Gln Thr Leu Thr Asp Pro Lys Gly Val Gln Pro Ile Tyr Ala Pro Thr				
	245		250	255
Pro Val Val Arg Glu Ala Val Leu Lys Ala Tyr Pro Asp Ile Ala Glu				
	260		265	270
Trp Leu Lys Pro Val Phe Glu Lys Leu Asp Ala Lys Thr Leu Gln Gln				
	275		280	285
Leu Asn Ala Ser Ile Ala Val Glu Gly Leu Asp Ala Lys Lys Val Ala				
	290		295	300
Ala Asp Phe Leu Lys Gln Gln Gly Leu Val Lys				
305		310		315

<210> 7292

<211> 390

<212> PRT

<213> Enterobacter cloacae

<400> 7292

Arg Asp Lys Ala Val Pro Ile Lys Cys His Asn Arg Val Leu Leu Leu				
1		5		10
Leu Ala Cys Val Ala Ile Ala Ala Val Ala Leu Pro Phe Val Asn Val				
	20		25	30
Ala Pro Asn Arg Leu Val Ser Gly Glu Pro Arg Ala Leu Trp Gln Ile				
	35		40	45
Trp Ala Phe Thr Pro Leu Leu Gly Ala Ala Leu Ala Ser Thr Val				
	50		55	60
Ala Leu Ala Phe Trp Pro Gly Arg Thr Ala Leu Trp Leu Thr Phe Leu				
65		70		75
Leu Ser Glu Ala Leu Phe Ile Val Leu Phe Trp Ser Ala Gly Gln Ala				
	85		90	95
Ala Thr Gln Met Ala Ala Val Glu Ser Pro Leu Ala Arg Thr Ser Val				
	100		105	110
Gly Ser Gly Leu Trp Leu Trp Leu Ala Leu Cys Leu Leu Val Cys Ser				
	115		120	125
Asp Ala Ile Arg Arg Leu Thr Pro Gln Pro Val Trp Arg Trp Leu Leu				
	130		135	140
Asn Ala Gln Phe Trp Val Ile Pro Leu Leu Ile Leu Phe Ser Gly Asp				
145		150		155
Leu Asn Gln Leu Ser Leu Leu Lys Glu Tyr Val Asn Arg Gln Glu Val				
	165		170	175
Phe Asp Asn Ala Leu Ala Gln His Leu Thr Ile Leu Phe Gly Thr Leu				
	180		185	190
Ile Pro Ala Leu Leu Leu Gly Val Pro Leu Gly Met Trp Cys Tyr Arg				
	195		200	205
His Thr Ser Arg Gln Gly Ala Val Phe Thr Val Leu Asn Val Ile Gln				
	210		215	220
Thr Ile Pro Ser Val Ala Leu Phe Gly Leu Leu Ile Ala Pro Leu Ala				
225		230		235
Gly Leu Val Lys Ser Phe Pro Ala Leu Ala Ala Ala Gly Ile Ala Gly				

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<210> 7293
<211> 368
<212> PRT
<213> Enterobacter cloacae
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<400>	7293														
Ser 1	Gly	Arg	Ala	Ala 5	Leu	Glu	His	Trp	Ser 10	Ser	Arg	Gly	Cys	Ser 15	Val
Ala	Arg	Trp	Ile 20	Trp	Cys	Cys	Trp	Ala 25	Ser	Cys	Pro	Gln	Leu 30	Arg	Trp
Arg	Ser	Tyr 35	Trp	Met	Pro	Cys	Leu 40	Pro	Cys	Gly	Ser	Arg 45	Cys	Ser	Gly
Glu	Glu 50	Pro	Met	Ile	Glu	Phe 55	His	Asp	Val	Ser	Lys 60	Thr	Phe	Ala	Gly
Arg 65	Pro	Ala	Ala	Ser	His 70	Leu	Asn	Leu	His	Phe 75	Ala	Glu	Gly	Ala	Phe 80
Ser	Ile	Leu	Ile	Gly 85	Thr	Ser	Gly	Ser	Gly 90	Lys	Ser	Thr	Thr	Leu 95	Lys
Met	Ile	Asn	Arg 100	Leu	Val	Glu	His	Asp 105	Ser	Gly	Thr	Ile	Arg	Phe	Ala
Gly	Glu	Glu 115	Ile	Arg	Ser	Leu	Pro	Val 120	Leu	Glu	Leu	Arg	Arg	Arg	Met
Gly	Tyr 130	Ala	Ile	Gln	Ser	Ile 135	Gly	Leu	Phe	Pro	His 140	Trp	Thr	Val	Ala
Gln 145	Asn	Ile	Ala	Thr	Val 150	Pro	Gln	Leu	Glu	Lys 155	Trp	Ser	Arg	Gly	Lys 160
Ile	Asn	Glu	Arg	Val 165	Asp	Glu	Leu	Met	Ala 170	Leu	Leu	Gly	Leu	Asp 175	Ala
Ser	Leu	Arg	Asn 180	Arg	Tyr	Pro	His	Gln 185	Leu	Ser	Gly	Gly	Gln 190	Gln	Gln
Arg	Val	Gly 195	Val	Ala	Arg	Ala	Leu 200	Ala	Ala	Asn	Pro	Gln 205	Val	Leu	Leu
Met	Asp 210	Glu	Pro	Phe	Gly	Ala 215	Leu	Asp	Pro	Val	Thr 220	Arg	Gly	Ala	Leu
Gln 225	Ala	Glu	Met	Ser	Arg 230	Ile	His	Arg	Ile	Leu	Gly 235	Arg	Thr	Ile	Val 240
Leu	Val	Thr	His	Asp 245	Ile	Asp	Glu	Ala	Leu 250	Arg	Leu	Ala	Asp 255	Arg	Leu
Val	Leu	Met	Asp 260	His	Gly	Glu	Val	Val 265	Gln	Gln	Gly	Thr	Pro	Leu	Glu
Leu	Leu	Thr	Ser	Pro	Ala	Asn	Asp	Phe	Val	Arg	Glu	Phe	Phe	Gly	Arg

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<210> 7294
<211> 257
<212> PRT
<213> Enterobacter cloacae
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<210> 7295
<211> 95
<212> PRT
<213> Enterobacter cloacae
```

<400> 7295
Ile Arg Asn Thr Asn His Leu Val Tyr Arg Asp Asn Trp Asn Ile Gln
1 5 10 15

Leu	Thr	Lys	Thr	Gly	Phe	Thr	Asn	Ala	Ala	Gly	His	Cys	Leu	Val	Met
			20					25					30		
Arg	Thr	Val	Phe	Asn	Gly	Lys	Pro	Val	Ala	Leu	Val	Val	Met	Asp	Ala
		35					40					45			
Phe	Gly	Lys	Tyr	Thr	His	Phe	Ala	Asp	Ala	Ser	Arg	Leu	Arg	Thr	Trp
	50					55					60				
Ile	Glu	Thr	Gly	Lys	Val	His	Pro	Val	Pro	Ala	Ser	Ala	Leu	Ala	Tyr
65					70					75					80
Lys	Lys	His	Lys	Ala	Glu	Gln	Met	Ala	Thr	Ala	Gln	Asn	Asp		
				85					90					95	

<210> 7296

<211> 797

<212> PRT

<213> Enterobacter cloacae

<400> 7296

Pro	Cys	Lys	Val	Phe	Arg	Leu	Cys	Gly	Thr	Leu	Arg	Phe	Ser	His	Gly
1			5					10						15	
Leu	Ala	Gly	Cys	Phe	Pro	Arg	Leu	Leu	Met	Arg	Glu	Asn	Asn	Asn	Met
			20					25					30		
Lys	Trp	Leu	Cys	Ser	Val	Gly	Val	Ala	Val	Ser	Leu	Ala	Leu	Gln	Pro
		35					40					45			
Ala	Leu	Ala	Glu	Asp	Leu	Phe	Gly	Asn	His	Pro	Leu	Thr	Pro	Glu	Ala
	50					55					60				
Arg	Asp	Ala	Phe	Val	Thr	Asp	Leu	Leu	Lys	Lys	Met	Thr	Val	Asp	Glu
65					70					75					80
Lys	Ile	Gly	Gln	Leu	Arg	Leu	Ile	Ser	Val	Gly	Pro	Asp	Asn	Pro	Lys
			85					90					95		
Glu	Ala	Ile	Arg	Glu	Met	Ile	Lys	Asp	Gly	Gln	Val	Gly	Ala	Ile	Phe
			100					105					110		
Asn	Thr	Val	Thr	Arg	Gln	Asp	Ile	Arg	Lys	Met	Gln	Asp	Gln	Val	Met
		115					120					125			
Glu	Leu	Ser	Arg	Leu	Lys	Ile	Pro	Leu	Phe	Phe	Ala	Tyr	Asp	Val	Val
	130					135					140				
His	Gly	Gln	Arg	Thr	Val	Phe	Pro	Ile	Ser	Leu	Gly	Leu	Ala	Ser	Ser
145					150					155					160
Phe	Asn	Leu	Asp	Ala	Val	Lys	Thr	Val	Gly	Arg	Val	Ser	Ala	Tyr	Glu
			165						170					175	
Ala	Ala	Asp	Asp	Gly	Leu	Asn	Met	Thr	Trp	Ala	Pro	Met	Val	Asp	Val
		180						185					190		
Ser	Arg	Asp	Pro	Arg	Trp	Gly	Arg	Ala	Ser	Glu	Gly	Phe	Gly	Glu	Asp
		195					200					205			
Thr	Tyr	Leu	Thr	Ala	Thr	Met	Gly	Lys	Thr	Met	Val	Glu	Ala	Met	Gln
	210					215					220				
Gly	Lys	Ser	Pro	Ala	Asp	Arg	Tyr	Ser	Val	Met	Thr	Ser	Val	Lys	His
225					230					235					240
Phe	Ala	Ala	Tyr	Gly	Ala	Val	Glu	Gly	Gly	Lys	Glu	Tyr	Asn	Thr	Val
			245					250						255	
Asp	Met	Ser	Pro	Gln	Arg	Leu	Phe	Asn	Asp	Tyr	Met	Pro	Pro	Tyr	Lys
			260					265					270		
Ala	Gly	Leu	Asp	Ala	Gly	Ser	Gly	Ala	Val	Met	Val	Ala	Leu	Asn	Ser
		275					280					285			
Leu	Asn	Gly	Thr	Pro	Ala	Thr	Ser	Asp	Ser	Trp	Leu	Leu	Lys	Asp	Val
	290					295					300				
Leu	Arg	Asp	Gln	Trp	Gly	Phe	Lys	Gly	Ile	Thr	Val	Ser	Asp	His	Gly
305					310					315					320
Ala	Ile	Lys	Glu	Leu	Ile	Lys	His	Gly	Thr	Ala	Ser	Asp	Pro	Glu	Asp
			325					330						335	
Ala	Val	Arg	Val	Ala	Leu	Lys	Ser	Gly	Ile	Asn	Met	Ser	Met	Ser	Asp
			340					345					350		

Glu Tyr Tyr Ser Lys Tyr Leu Pro Gly Leu Val Lys Ser Gly Lys Val
 355 360 365
 Thr Met Ala Glu Leu Asp Asp Ala Ala Arg His Val Leu Asn Val Lys
 370 375 380
 Tyr Asp Met Gly Leu Phe Asn Asp Pro Tyr Ser His Leu Gly Pro Lys
 385 390 395 400
 Asp Ser Asp Pro Ala Asp Thr Asn Ala Glu Ser Arg Leu His Arg Lys
 405 410 415
 Glu Ala Arg Glu Val Ala Arg Glu Ser Leu Val Leu Leu Lys Asn Arg
 420 425 430
 Leu Asp Thr Leu Pro Leu Lys Lys Ser Gly Thr Ile Ala Val Val Gly
 435 440 445
 Pro Leu Ala Asp Ser Lys Arg Asp Val Met Gly Ser Trp Ser Ala Ala
 450 455 460
 Gly Val Ala Asp Gln Ser Val Thr Val Leu Thr Gly Ile Lys Ser Ala
 465 470 475 480
 Val Gly Asp Asn Ala Lys Val Val Tyr Ala Lys Gly Ala Asn Val Thr
 485 490 495
 Asp Asp Lys Asp Ile Val Thr Phe Leu Asn Gln Tyr Glu Glu Ala Val
 500 505 510
 Lys Val Asp Ala Arg Thr Pro Lys Glu Met Leu Asp Glu Ala Val Asn
 515 520 525
 Ala Ala Lys Gln Ser Asp Val Val Val Ala Val Val Gly Glu Ala Gln
 530 535 540
 Gly Met Ala His Glu Ala Ser Ser Arg Thr Asp Ile Thr Ile Pro Gln
 545 550 555 560
 Ser Gln Arg Asp Leu Ile Ala Ala Leu Lys Ala Thr Gly Lys Pro Leu
 565 570 575
 Val Leu Val Leu Met Asn Gly Arg Pro Leu Ala Leu Val Lys Glu Asp
 580 585 590
 Gln Gln Ala Asp Ala Ile Leu Glu Thr Trp Phe Ala Gly Thr Glu Gly
 595 600 605
 Gly Asn Ala Ile Ala Asp Val Leu Phe Gly Asp Tyr Asn Pro Ser Gly
 610 615 620
 Lys Leu Pro Met Ser Phe Pro Arg Ser Val Gly Gln Ile Pro Val Tyr
 625 630 635 640
 Tyr Ser His Leu Asn Thr Gly Arg Pro Tyr Asn Ala Asp Lys Pro Asn
 645 650 655
 Lys Tyr Thr Ser Arg Tyr Phe Asp Glu Ala Asn Gly Pro Leu Tyr Pro
 660 665 670
 Phe Gly Tyr Gly Leu Ser Tyr Thr Thr Phe Lys Val Ser Asp Val Lys
 675 680 685
 Met Ser Ala Pro Thr Leu Lys Arg Asp Gly Lys Val Thr Ala Ser Val
 690 695 700
 Glu Val Thr Asn Ser Gly Lys Arg Glu Gly Ala Thr Val Ile Gln Met
 705 710 715 720
 Tyr Val Gln Asp Val Thr Ala Ser Met Ser Arg Pro Val Lys Gln Leu
 725 730 735
 Arg Gly Phe Glu Lys Val Asn Leu Lys Pro Gly Glu Thr Arg Thr Val
 740 745 750
 Ser Phe Pro Ile Asp Val Asn Ala Leu Lys Phe Trp Asn Gln Gln Met
 755 760 765
 Lys Tyr Asp Ala Glu Pro Gly Lys Phe Asn Val Phe Ile Gly Val Asp
 770 775 780
 Ser Ala Arg Val Asn Lys Ala Glu Phe Glu Leu Gln
 785 790 795

<210> 7297

<211> 247

<212> PRT

<213> Enterobacter cloacae

<400> 7297

```

Arg Val Lys Trp Val Arg Asp Pro Leu Leu Trp Leu Thr Gly Leu Phe
1      5      10      15
Ile Ala Leu Leu Tyr Leu Met Pro His Ser Ala Ala Leu Phe Asn Ala
20      25      30
Leu Ile Pro Gly Leu Pro Arg Pro Val Tyr Gln Gln Glu Ser Phe Val
35      40      45
Asn Leu Thr Leu Ala His Phe Trp Leu Val Ala Val Ser Ser Val Ile
50      55      60
Ala Ile Val Leu Gly Thr Gly Ala Gly Ile Ala Val Thr Arg Pro Ala
65      70      75      80
Gly Arg Glu Phe Arg Pro Leu Val Glu Thr Ile Ala Ala Thr Gly Gln
85      90      95
Thr Phe Pro Pro Val Ala Val Leu Ala Ile Ala Val Pro Ala Ile Gly
100     105     110
Phe Gly Gln Glu Pro Ala Ile Ile Ala Leu Ile Leu Tyr Gly Val Leu
115     120     125
Pro Ile Leu Gln Gly Thr Leu Ala Gly Ile Ala Ala Val Pro Ala Ser
130     135     140
Ala Leu Ser Val Ala Glu Gly Met Gly Met Ser Ala Trp Gln Arg Leu
145     150     155     160
Val Lys Val Glu Leu Pro Leu Ala Ala Pro Val Ile Ile Ala Gly Val
165     170     175
Arg Thr Ser Val Ile Ile Asn Ile Gly Thr Ala Thr Ile Ala Ser Thr
180     185     190
Val Gly Ala Asn Thr Leu Gly Thr Pro Ile Ile Ile Gly Leu Ser Gly
195     200     205
Phe Asn Thr Ala Tyr Ile Ile Gln Gly Ala Ile Leu Val Ala Leu Ala
210     215     220
Ala Ile Val Val Asp Arg Leu Phe Glu Arg Leu Ala Gly Tyr Leu Ser
225     230     235     240
Gln His Arg Arg Glu Gln
245

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<210> 7298

<211> 568

<212> PRT

<213> Enterobacter cloacae

<400> 7298

```

Asn Val Arg Phe Val Ser Met Tyr Glu Phe Asn Leu Val Leu Leu Leu
1      5      10      15
Leu Gln Gln Met Cys Val Phe Leu Val Ile Ala Trp Leu Met Ser Lys
20      25      30
Thr Arg Leu Phe Ile Pro Leu Met Gln Val Thr Val Arg Leu Pro His
35      40      45
Lys Phe Leu Cys Tyr Val Val Phe Ser Ile Phe Cys Ile Met Gly Thr
50      55      60
Trp Phe Gly Leu His Ile Glu Asp Ser Ile Ala Asn Thr Arg Ala Ile
65      70      75      80
Gly Ala Val Met Gly Gly Leu Leu Gly Gly Pro Val Val Gly Gly Leu
85      90      95
Val Gly Leu Thr Gly Gly Leu His Arg Tyr Ser Met Gly Gly Met Thr
100     105     110
Ala Leu Ser Cys Met Ile Ser Thr Ile Val Glu Gly Leu Leu Gly Gly
115     120     125
Leu Val His Ser Tyr Met Ile Lys Arg Gly Arg Pro Asp Lys Val Phe
130     135     140
Ser Pro Phe Thr Ala Gly Ala Ile Thr Phe Val Ala Glu Met Ala Gln
145     150     155     160

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Met Ala Ile Ile Leu Leu Ile Ala Arg Pro Phe Asp Asp Ala Leu His
 165 170 175
 Leu Val Ser Ser Ile Ala Ala Pro Met Met Val Thr Asn Thr Val Gly
 180 185 190
 Ala Ala Leu Phe Met Arg Ile Leu Leu Asp Lys Arg Ala Met Phe Glu
 195 200 205
 Lys Tyr Thr Ser Ala Phe Ser Ala Thr Ala Leu Lys Val Ala Ala Ser
 210 215 220
 Thr Glu Gly Ile Leu Arg Gln Gly Phe Asn Glu Glu Asn Ser Met Lys
 225 230 235 240
 Val Ala Gln Val Leu Tyr Lys Glu Leu Asp Ile Gly Ala Val Ala Ile
 245 250 255
 Thr Asp Arg Glu Lys Leu Leu Ala Phe Thr Gly Thr Gly Asp Asp His
 260 265 270
 His Leu Pro Gly Lys Pro Ile Ser Ser Ala Tyr Thr Leu Arg Ala Ile
 275 280 285
 Glu Thr Gly Glu Val Val Tyr Ala Asp Gly Asn Glu Val Pro Tyr Arg
 290 295 300
 Cys Ser Leu His Pro Gln Cys Lys Leu Gly Ser Thr Leu Val Ile Pro
 305 310 315 320
 Leu Arg Gly Glu Asn Gln Arg Val Met Gly Thr Ile Lys Leu Tyr Glu
 325 330 335
 Ala Lys Asn Arg Leu Phe Ser Ser Ile Asn Arg Thr Leu Gly Glu Gly
 340 345 350
 Ile Ala Gln Leu Leu Ser Ala Gln Ile Leu Ala Gly Gln Tyr Glu Arg
 355 360 365
 Gln Lys Ala Leu Leu Thr Gln Ser Glu Ile Lys Leu Leu His Ala Gln
 370 375 380
 Val Asn Pro His Phe Leu Phe Asn Ala Leu Asn Thr Leu Lys Ala Val
 385 390 395 400
 Ile Arg Arg Asp Ser Asp Gln Ala Ala Gln Leu Val Gln Phe Leu Ser
 405 410 415
 Thr Phe Phe Arg Lys Asn Leu Lys Arg Pro Ser Glu Ile Val Thr Leu
 420 425 430
 Ala Asp Glu Ile Glu His Val Asn Ala Tyr Leu Gln Ile Glu Lys Ala
 435 440 445
 Arg Phe Gln Ser Arg Leu Gln Val Ser Leu Ser Val Pro Asp Glu Leu
 450 455 460
 Ala Tyr Gln His Leu Pro Ala Phe Thr Leu Gln Pro Ile Val Glu Asn
 465 470 475 480
 Ala Ile Lys His Gly Thr Ser Gln Leu Leu Gly Thr Gly Glu Ile Met
 485 490 495
 Ile Ser Ala Ser Arg Phe Asn His His Leu Val Leu Asp Ile Glu Asp
 500 505 510
 Asn Ala Gly Leu Tyr Glu Ala Ser Ala Ser Gly Gly Leu Gly Met Ser
 515 520 525
 Leu Val Asp Lys Arg Leu Arg Ala His Phe Gly Asp Asp Cys Gly Ile
 530 535 540
 Thr Val Ala Cys Glu Pro Asp Arg Tyr Thr Arg Ile Thr Leu Arg Leu
 545 550 555 560
 Pro Leu Glu Glu Asn Ala Cys
 565

<210> 7299

<211> 175

<212> PRT

<213> Enterobacter cloacae

<400> 7299

Gly Cys Lys Thr Asp Thr Leu Arg Ala Ile Ala Ser Ser Thr Phe Glu
 1 5 10 15

Gly Ser Met Leu Ser Asn Asp Ile Leu Arg Ser Leu Arg Tyr Thr Leu
 20 25 30
 Lys Ala Asn Asn Asn Asp Met Val Arg Ile Leu Ala Leu Ser Asp Met
 35 40 45
 Glu Ser Thr Ser Ala Gly Phe Asp Thr Trp Met Thr Lys Glu Asp Glu
 50 55 60
 Glu Gly Phe Val Arg Cys Pro Asp Ile Ile Leu Ser Gly Phe Leu Asn
 65 70 75 80
 Gly Leu Ile Tyr Asp Lys Arg Gly Lys Asp Glu Ser Ala Pro Glu Leu
 85 90 95
 Ala Leu Glu Arg Arg Val Asn Asn Asn Thr Val Leu Lys Lys Leu Arg
 100 105 110
 Ile Ala Phe Cys Leu Lys Thr Asp Asp Ile Leu Ala Ile Met Thr Glu
 115 120 125
 Gln Lys Phe Arg Val Ser Met Pro Glu Ile Thr Ala Met Met Arg Ala
 130 135 140
 Pro Asp His Lys Asn Tyr Arg Glu Cys Gly Asp Gln Phe Leu Arg Tyr
 145 150 155 160
 Phe Leu Arg Gly Leu Thr Gln Arg Val His Asn Gln Lys Gly
 165 170 175

<210> 7300

<211> 394

<212> PRT

<213> Enterobacter cloacae

<400> 7300

Ala Phe Ser Gln Arg Gly Cys Cys Gln Pro Arg Gly Glu Asp Val Tyr
 1 5 10 15
 Phe His Ser Leu Phe Trp Pro Ala Met Leu Glu Gly Ser Asn Phe Arg
 20 25 30
 Lys Pro Thr Asn Leu Phe Val His Gly Tyr Val Thr Val Asn Gly Ala
 35 40 45
 Lys Met Ser Lys Ser Arg Gly Thr Phe Ile Lys Ala Ser Thr Trp Leu
 50 55 60
 Asn His Phe Asp Ala Asp Ser Leu Arg Tyr Tyr Thr Ala Lys Leu
 65 70 75 80
 Ser Ser Arg Ile Asp Asp Ile Asp Leu Asn Leu Glu Asp Phe Val Gln
 85 90 95
 Arg Val Asn Ala Asp Ile Val Asn Lys Val Val Asn Leu Ala Ser Arg
 100 105 110
 Asn Ala Gly Phe Ile Ala Lys Arg Phe Asp Gly Val Leu Ser Ala Glu
 115 120 125
 Leu Ala Asp Pro Glu Leu Tyr Lys Thr Phe Thr Asp Ala Ala Ala Ala
 130 135 140
 Val Gly Glu Ala Trp Glu Ser Arg Glu Phe Gly Lys Ala Ile Arg Glu
 145 150 155 160
 Ile Met Ala Leu Ala Asp Val Ala Asn Arg Tyr Val Asp Glu Gln Ala
 165 170 175
 Pro Trp Val Val Ala Lys Gln Glu Gly Arg Asp Ala Asp Leu Gln Ala
 180 185 190
 Ile Cys Thr Met Gly Leu Asn Met Phe Arg Val Leu Met Thr Trp Leu
 195 200 205
 Lys Pro Val Leu Pro Gln Leu Ala Ala Arg Ala Glu Ala Phe Leu Asn
 210 215 220
 Thr Glu Leu Thr Trp Asp Ala Ile Gln Gln Pro Leu Leu Gly His Lys
 225 230 235 240
 Val Asn Thr Phe Lys Ala Leu Tyr Asn Arg Ile Glu Met Lys Gln Val
 245 250 255
 Glu Ala Leu Val Glu Ala Ser Lys Glu Glu Val Lys Ala Ala Ala Ala
 260 265 270

Pro Val Thr Gly Pro Leu Ala Asp Asp Pro Ile Gln Glu Thr Ile Thr
 275 280 285
 Phe Asp Asp Phe Ala Lys Val Asp Leu Arg Val Ala Leu Ile Glu Asn
 290 295 300
 Ala Glu Phe Val Glu Gly Ser Asp Lys Leu Leu Arg Leu Thr Leu Asp
 305 310 315 320
 Leu Gly Gly Glu Lys Arg Asn Val Phe Ser Gly Ile Arg Ser Ala Tyr
 325 330 335
 Pro Asp Pro Gln Val Leu Ile Gly Arg Gln Thr Val Met Val Ala Asn
 340 345 350
 Leu Ala Pro Arg Lys Met Arg Phe Gly Ile Ser Glu Gly Met Val Met
 355 360 365
 Ala Ala Gly Pro Gly Gly Lys Asp Ile Phe Leu Leu Ser Pro Asp Glu
 370 375 380
 Gly Ala Lys Pro Gly Gln Gln Val Lys
 385 390

<210> 7301

<211> 275

<212> PRT

<213> Enterobacter cloacae

<400> 7301

Phe Val Gln Lys Arg Ile Lys Ser Ser Trp Phe Arg Lys Val Gly Leu
 1 5 10 15
 Gln Leu Ser Trp Gly Arg Ala Ser Leu Gly Ala Lys Met Ala Leu Tyr
 20 25 30
 Thr Ile Gly Glu Val Ala Leu Leu Cys Asp Ile Asn Pro Val Thr Leu
 35 40 45
 Arg Ala Trp Gln Arg Arg Tyr Gly Leu Leu Lys Pro Gln Arg Thr Asp
 50 55 60
 Gly Gly His Arg Leu Phe Asn Asp Ala Asp Ile Asp Arg Ile Arg Glu
 65 70 75 80
 Ile Lys Ser Trp Ile Asp Asn Gly Val Gln Val Gly Lys Val Lys Ser
 85 90 95
 Leu Leu Ser Gln Tyr Asp Pro Asp Thr Gln His Leu Trp Arg Glu Gln
 100 105 110
 Gln Glu Thr Leu Leu Arg Leu Leu Gln Ser Gly Asn Leu Gln Arg Leu
 115 120 125
 Arg Gly Trp Ile Lys Glu Gln Gly Arg Asp Tyr Pro Ala Gln Thr Leu
 130 135 140
 Ile Thr His Leu Phe Ile Pro Leu Arg Arg Arg Leu Gln Cys Gln Gln
 145 150 155 160
 Thr Thr Leu Gln Ala Leu Leu Ser Met Leu Asp Gly Val Leu Ile Asn
 165 170 175
 Tyr Ile Ser Val Cys Leu Ala Ser Ala Arg Asn Lys Asn Ser Lys Asp
 180 185 190
 Ala Leu Val Ile Gly Trp Asn Val His Asp Thr Thr Arg Leu Trp Leu
 195 200 205
 Glu Ala Trp Ile Ala Thr Gln Gln Gly Trp Arg Val Asp Val Leu Ala
 210 215 220
 His Ser Leu Ala Gln Leu Arg Pro Glu Leu Phe Glu Gly Gln Thr Leu
 225 230 235 240
 Leu Val Trp Cys Gly Glu Val Pro Ser Ala Ser Gln Gln Gln Leu Leu
 245 250 255
 Thr Glu Trp Arg Glu His Gly Tyr Pro Val Tyr Ser Leu Gly Pro Asn
 260 265 270
 Ala Ser
 275

<210> 7302

<211> 641

<212> PRT

<213> Enterobacter cloacae

<400> 7302

```

Pro Arg Glu Ala Pro Gly Gln Thr Val Arg Lys Ala Gln Cys Ala Thr
1      5      10      15
Lys Pro Glu Asn Leu Ala Gly Leu Phe Ser Asp Phe Ser His Glu Tyr
      20      25      30
Pro Thr Ala Gln Arg Leu Ile Ala Leu Cys Phe Thr Ala Arg Asn Leu
      35      40      45
Pro His His Lys Glu Trp Lys Met Ser Ser Val Arg Thr Asp Asp Asn
      50      55      60
Thr Thr Phe Ile Asn Glu Leu Ser Arg Leu Val Gly His Ser His Leu
      65      70      75      80
Leu Thr Asp Pro Ala Lys Thr Ala Arg Tyr Arg Lys Gly Phe Arg Ser
      85      90      95
Gly Gln Gly Glu Ala Leu Ala Val Val Phe Pro Gly Thr Leu Leu Glu
      100      105      110
Leu Trp Arg Val Leu Ser Ala Cys Val Ala Ala Asp Lys Ile Ile Leu
      115      120      125
Met Gln Ala Ala Asn Thr Gly Leu Thr Glu Gly Ser Thr Pro Asn Gly
      130      135      140
Asn Asp Tyr Asp Arg Asp Ile Val Ile Ile Ser Thr Leu Arg Leu Asp
      145      150      155      160
Lys Leu His Leu Leu Asp Lys Gly Glu Gln Val Leu Ala Phe Pro Gly
      165      170      175
Thr Thr Leu Tyr Ser Leu Glu Lys Ala Leu Lys Pro Leu Gly Arg Glu
      180      185      190
Pro His Ser Val Ile Gly Ser Ser Cys Ile Gly Ala Ser Val Ile Gly
      195      200      205
Gly Ile Cys Asn Asn Ser Gly Gly Ser Leu Val Gln Arg Gly Pro Ala
      210      215      220
Tyr Thr Glu Met Ser Leu Phe Ala Arg Ile Asp Glu Asn Gly Lys Leu
      225      230      235      240
Thr Leu Val Asn His Leu Gly Ile Asp Leu Gly Val Thr Pro Glu Gln
      245      250      255
Ile Leu Ser Lys Leu Asp Asp Asp Arg Val Lys Asp Glu Asp Val Gln
      260      265      270
His Asp Gly Arg His Ala His Asp His Asp Tyr Ile Thr Arg Val Arg
      275      280      285
Asp Ile Asn Ala Asp Thr Pro Ala Arg Tyr Asn Ala Asp Pro Asp Arg
      290      295      300
Leu Phe Glu Ser Ser Gly Cys Ala Gly Lys Leu Ala Val Phe Ala Val
      305      310      315      320
Arg Leu Asp Thr Phe Pro Ala Glu Lys Lys Gln Gln Val Phe Tyr Ile
      325      330      335
Gly Thr Asn Gln Pro Glu Val Leu Thr Glu Ile Arg Arg His Ile Leu
      340      345      350
Ala Glu Phe Thr His Leu Pro Val Ala Gly Glu Tyr Met His Arg Asp
      355      360      365
Ile Tyr Asp Ile Ala Glu Arg Tyr Gly Lys Asp Thr Phe Leu Met Ile
      370      375      380
Asp Lys Leu Gly Thr Asp Lys Met Pro Phe Phe Phe Thr Met Lys Gly
      385      390      395      400
Arg Thr Asp Ala Met Leu Glu Lys Val Ser Leu Phe Lys Pro His Phe
      405      410      415
Thr Asp Arg Phe Met Gln Lys Leu Gly Asn Val Phe Pro Ala His Leu
      420      425      430
Pro Glu Arg Met Lys Thr Trp Arg Asp Lys Tyr Glu His His Leu Leu
      435      440      445

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Leu Lys Met Ala Gly Asp Gly Ile Asp Glu Ala Gln Ser Trp Leu Thr
 450 455 460
 Glu Phe Phe Lys Thr Ala Asp Gly Asp Phe Phe Ala Cys Thr Pro Glu
 465 470 475 480
 Glu Gly Ser Lys Ala Phe Leu His Arg Phe Ala Ala Ala Gly Ala Ala
 485 490 495
 Ile Arg Tyr Gln Ala Val His Ser Glu Glu Val Glu Asp Ile Leu Ala
 500 505 510
 Leu Asp Ile Ala Leu Arg Arg Asn Asp Thr Glu Trp Phe Glu His Leu
 515 520 525
 Pro Pro Glu Ile Asp Ser Lys Leu Val His Lys Leu Tyr Tyr Gly His
 530 535 540
 Phe Met Cys Tyr Val Phe His Gln Asp Tyr Ile Val Lys Lys Gly Val
 545 550 555 560
 Asp Ala His Ala Leu Lys Glu Gln Met Leu Ala Leu Leu His Glu Arg
 565 570 575
 Gly Ala Gln Tyr Pro Ala Glu His Asn Val Gly His Leu Tyr Lys Ala
 580 585 590
 Pro Glu Thr Leu Lys Gln Phe Tyr Arg Lys Asn Asp Pro Thr Asn Ser
 595 600 605
 Met Asn Pro Gly Ile Gly Lys Thr Thr Arg Lys Lys Tyr Trp Lys Glu
 610 615 620
 Ser Ala Glu Ser Glu Gln His Asn Thr Gln Ala Ser Asp Glu Leu Ile
 625 630 635 640

<210> 7303

<211> 212

<212> PRT

<213> Enterobacter cloacae

<400> 7303

Ala Leu Leu Lys Arg Thr Arg Val Ser Ala Cys Cys Gln Arg Asn Val
 1 5 10 15
 Ser Leu Ala Phe Gln Thr Arg Ser Gly Gln Asn Met Ser Ala Val Glu
 20 25 30
 Thr Phe Pro Glu Thr Glu Ile Glu Val Arg Asp Ala Leu Pro Asp Asp
 35 40 45
 Ala His Ala Ile Ser Ala Ile Tyr Ala Trp His Val Leu His Gly Arg
 50 55 60
 Ala Ser Phe Glu Glu Val Pro Pro Thr Val Asp Glu Met Arg Gln Arg
 65 70 75 80
 Met Lys Ser Val Thr Asp Ser Gly Leu Pro Trp Leu Val Ala Leu Tyr
 85 90 95
 Arg Gly Ile Val Val Gly Tyr Cys Tyr Ala Thr Phe Tyr Arg Pro Arg
 100 105 110
 Gln Ala Tyr Arg Tyr Thr Leu Glu Glu Ser Ile Tyr Val Asp Ala Ser
 115 120 125
 Thr Thr Gly Arg Gly Phe Gly Ser Ala Leu Leu Gln Ala Leu Ile Ala
 130 135 140
 Arg Cys Glu Gln Gly Pro Trp Arg Gln Met Ile Ala Val Val Gly Asp
 145 150 155 160
 Gly Gln Asn Asn Pro Gly Ser Leu Arg Leu His Lys Lys His Gly Phe
 165 170 175
 Glu Ile Val Gly Gln Leu Arg Ser Val Gly Tyr Lys Lys Gly Asp Trp
 180 185 190
 Arg Asp Thr Val Met Met Gln Arg Pro Leu Asn Asp Gly Asp Trp Thr
 195 200 205
 Leu Pro Glu
 210

<210> 7304
 <211> 300
 <212> PRT
 <213> Enterobacter cloacae

<400> 7304

```

Asn Asp Val Glu Ser Ala Asp Gly Asp Ile His Arg Cys Asn Ile Arg
1      5      10      15
Arg Thr Ile Arg Ser Leu Val Thr Gly Asp Arg Val Val Trp Arg Pro
      20      25      30
Gly Lys Glu Ala Ala Glu Gly Val Thr Val Lys Gly Ile Val Glu Ala
      35      40      45
Val His Glu Arg Thr Ser Val Leu Thr Arg Pro Asp Phe Tyr Asp Gly
      50      55      60
Val Lys Pro Ile Ala Ala Asn Ile Asn Gln Ile Val Ile Val Ser Ala
      65      70      75      80
Ile Leu Pro Glu Leu Ser Leu Asn Ile Ile Asp Arg Tyr Leu Val Ala
      85      90      95
Cys Glu Thr Leu Gln Val Glu Pro Leu Ile Val Leu Asn Lys Ile Asp
      100     105     110
Leu Leu Asp Asp Glu Ala Met Ala Phe Val Asn Glu Gln Met Asp Ile
      115     120     125
Tyr Arg Asn Ile Gly Tyr Arg Val Leu Met Val Ser Ser Arg Thr Lys
      130     135     140
Asp Gly Leu Lys Pro Leu Glu Asp Ala Leu Thr Asn Arg Ile Ser Ile
      145     150     155     160
Phe Ala Gly Gln Ser Gly Val Gly Lys Ser Ser Leu Leu Asn Asn Leu
      165     170     175
Leu Gly Leu Gln Gln Glu Ile Leu Thr Asn Asp Val Ser Asp Val Ser
      180     185     190
Gly Leu Gly Gln His Thr Thr Thr Ala Ser Arg Leu Tyr His Phe Pro
      195     200     205
His Gly Gly Asp Val Ile Asp Ser Pro Gly Val Arg Glu Phe Gly Leu
      210     215     220
Trp His Leu Glu Pro Glu Gln Ile Phe Asn Gly Phe Val Glu Phe His
      225     230     235     240
Asp Tyr Leu Gly Ala Cys Lys Tyr Arg Asp Cys Lys His Asp Asn Asp
      245     250     255
Pro Gly Cys Ala Ile Arg Glu Ala Val Glu Asn Gly Glu Ile Ala Glu
      260     265     270
Thr Arg Phe Glu Asn Tyr His Arg Ile Leu Glu Ser Met Asp Gln Val
      275     280     285
Lys Thr Arg Lys Asn Phe Ser Asp Ser Asp Asn
      290     295     300

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<210> 7305
 <211> 139
 <212> PRT
 <213> Enterobacter cloacae

<400> 7305

```

Asn His Ala Lys Glu Cys Met Met Thr Thr Lys Arg Lys Ala Tyr Val
1      5      10      15
Arg Pro Met Pro Ser Thr Trp Trp Lys Leu Pro Phe Tyr Arg Phe
      20      25      30
Tyr Met Leu Arg Glu Gly Thr Ala Phe Pro Ala Val Trp Phe Ser Leu
      35      40      45
Glu Leu Met Tyr Gly Val Tyr Ala Leu Lys His Gly Pro Glu Ala Trp
      50      55      60
Ala Ser Phe Val Gly Phe Leu Gln Asn Pro Ile Ile Val Val Leu Asn

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65				70				75					80
Leu	Ile	Val	Leu	Ala	Ala	Leu	Leu	His	Thr	Lys	Thr	Trp	Phe
				85				90					95
Leu	Ala	Pro	Lys	Ala	Ala	Asn	Ile	Ile	Val	Lys	Gly	Glu	Lys
			100					105					110
Pro	Glu	Pro	Val	Ile	Lys	Gly	Leu	Trp	Ala	Val	Thr	Ala	Val
			115					120					125
Val	Val	Ile	Leu	Phe	Val	Ala	Leu	Phe	Trp				
			130					135					

<210> 7306

<211> 418

<212> PRT

<213> Enterobacter cloacae

<400> 7306

Gln	Leu	Met	Leu	Asn	Leu	Thr	Val	Cys	Gln	Ala	Gln	Ser	Asn	Pro	Thr
1				5					10					15	
Asp	Tyr	Ala	Cys	Leu	Met	Gly	Pro	Asp	Thr	Pro	Leu	Thr	Arg	Tyr	Tyr
			20					25					30		
Gly	Arg	Leu	Leu	Met	Met	Lys	Lys	Ser	Leu	Cys	Cys	Ala	Leu	Leu	Leu
			35				40					45			
Gly	Leu	Ser	Cys	Ser	Ala	Leu	Ala	Ala	Pro	Val	Ser	Glu	Lys	Gln	Leu
			50			55					60				
Ala	Glu	Val	Val	Ala	Asn	Thr	Val	Thr	Pro	Leu	Met	Lys	Ala	Gln	Ser
65					70				75					80	
Val	Pro	Gly	Met	Ala	Val	Ala	Val	Ile	Tyr	Gln	Gly	Lys	Ser	His	Tyr
			85					90					95		
Tyr	Thr	Phe	Gly	Lys	Ala	Asp	Ile	Ala	Ala	Asn	Lys	Pro	Val	Thr	Pro
			100				105						110		
Gln	Thr	Leu	Phe	Glu	Leu	Gly	Ser	Ile	Ser	Lys	Thr	Phe	Thr	Gly	Val
			115				120					125			
Leu	Gly	Gly	Asp	Ala	Ile	Ala	Arg	Gly	Glu	Ile	Ser	Leu	Asp	Asp	Pro
			130			135					140				
Val	Thr	Arg	Tyr	Trp	Pro	Gln	Leu	Thr	Gly	Lys	Gln	Trp	Gln	Gly	Ile
145					150				155					160	
Arg	Met	Leu	Asp	Leu	Ala	Thr	Tyr	Thr	Ala	Gly	Gly	Leu	Pro	Leu	Gln
			165					170					175		
Val	Pro	Asp	Glu	Val	Thr	Asp	Asn	Ala	Ser	Leu	Leu	Arg	Phe	Tyr	Gln
			180				185					190			
Asn	Trp	Gln	Pro	Gln	Trp	Lys	Pro	Gly	Thr	Thr	Arg	Leu	Tyr	Ala	Asn
			195			200					205				
Ala	Ser	Ile	Gly	Leu	Phe	Gly	Ala	Leu	Ala	Val	Lys	Pro	Ser	Gly	Met
			210			215				220					
Pro	Tyr	Glu	Gln	Ala	Met	Thr	Thr	Arg	Val	Leu	Lys	Pro	Leu	Lys	Leu
225					230				235					240	
Asp	His	Thr	Trp	Ile	Asn	Val	Pro	Lys	Ala	Glu	Glu	Ala	His	Tyr	Ala
			245					250					255		
Trp	Gly	Tyr	Arg	Asp	Gly	Lys	Ala	Val	Arg	Val	Ser	Pro	Gly	Met	Leu
			260				265					270			
Asp	Ala	Gln	Ala	Tyr	Gly	Val	Lys	Thr	Asn	Val	Gln	Asp	Met	Ala	Asn
			275			280					285				
Trp	Val	Met	Ala	Asn	Met	Ala	Pro	Glu	Lys	Val	Ala	Asp	Ala	Ser	Leu
			290			295				300					
Lys	Gln	Gly	Ile	Ala	Leu	Ala	Gln	Ser	Arg	Tyr	Trp	Arg	Ile	Gly	Ser
305					310				315					320	
Met	Tyr	Gln	Gly	Leu	Gly	Trp	Glu	Met	Leu	Asn	Trp	Pro	Val	Glu	Ala
			325					330					335		
Asn	Thr	Val	Val	Glu	Gly	Ser	Asp	Ser	Lys	Val	Ala	Leu	Ala	Pro	Leu
			340				345					350			
Pro	Ala	Ala	Glu	Val	Asn	Pro	Pro	Ala	Pro	Pro	Val	Lys	Ala	Ser	Trp

	355		360		365		
Val	His	Lys	Thr	Gly	Ser	Thr	Gly
	370					375	
Ile	Pro	Glu	Lys	Gln	Ile	Gly	Ile
385					390		
Pro	Asn	Pro	Ala	Arg	Val	Glu	Ala
				405			410
Gln							

<210> 7307

<211> 348

<212> PRT

<213> Enterobacter cloacae

<400> 7307

Asn	Arg	Pro	Leu	Phe	Ser	Gly	Ser	Gly	Ser	Val	Met	Pro	Asp	Gln	Glu
1				5					10					15	
Arg	Gln	Asn	Asn	Gly	Leu	Glu	Ala	Thr	Leu	Leu	Asn	Ser	Phe	Lys	Leu
			20					25					30		
Ser	Leu	Gln	Tyr	Ile	Leu	Pro	Lys	Leu	Trp	Leu	Thr	Arg	Leu	Ala	Gly
		35					40					45			
Trp	Gly	Ala	Ser	Lys	Arg	Ala	Gly	Trp	Leu	Thr	Lys	Leu	Val	Ile	Asp
	50					55					60				
Leu	Phe	Val	Lys	Tyr	Tyr	Lys	Val	Asp	Met	Lys	Glu	Ala	Gln	Lys	Pro
65					70					75					80
Asp	Thr	Ala	Ser	Tyr	Arg	Thr	Phe	Asn	Glu	Phe	Phe	Val	Arg	Pro	Leu
				85				90						95	
Arg	Asp	Glu	Val	Arg	Pro	Leu	Asn	Thr	Asp	Pro	Asn	Val	Leu	Val	Met
			100					105					110		
Pro	Ala	Asp	Gly	Val	Ile	Ser	Gln	Leu	Gly	Lys	Ile	Glu	Asn	Asp	Lys
		115					120					125			
Ile	Leu	Gln	Ala	Lys	Gly	His	Asn	Tyr	Ser	Leu	Glu	Ala	Leu	Leu	Ala
	130					135					140				
Gly	Asn	Tyr	Ile	Met	Ala	Asp	Leu	Phe	Arg	Asn	Gly	Thr	Phe	Ala	Thr
145				150						155					160
Thr	Tyr	Leu	Ser	Pro	Arg	Asp	Tyr	His	Arg	Val	His	Met	Pro	Cys	Asn
				165					170					175	
Gly	Ile	Leu	Arg	Glu	Met	Ile	Tyr	Val	Pro	Gly	Asp	Leu	Phe	Ser	Val
		180					185						190		
Asn	His	Leu	Thr	Ala	Gln	Asn	Val	Pro	Asn	Leu	Phe	Ala	Arg	Asn	Glu
		195					200					205			
Arg	Val	Ile	Cys	Leu	Phe	Asp	Thr	Glu	Phe	Gly	Pro	Met	Ala	Gln	Ile
	210					215					220				
Leu	Val	Gly	Ala	Thr	Ile	Val	Gly	Ser	Ile	Glu	Thr	Val	Trp	Ala	Gly
225					230					235					240
Thr	Ile	Thr	Pro	Pro	Arg	Glu	Gly	Val	Ile	Lys	Arg	Trp	Thr	Trp	Pro
				245					250					255	
Ala	Gly	Glu	Glu	Glu	Gly	Ser	Val	Ala	Leu	Leu	Lys	Gly	Gln	Glu	Met
		260					265						270		
Gly	Arg	Phe	Lys	Leu	Gly	Ser	Thr	Val	Ile	Asn	Leu	Phe	Ala	Pro	Gly
	275						280					285			
Lys	Val	Asn	Leu	Val	Asp	Glu	Leu	Glu	Ser	Leu	Ser	Val	Thr	Lys	Leu
	290					295					300				
Gly	Gln	Pro	Leu	Ala	Val	Ser	Thr	Glu	Val	Phe	Ala	Thr	Pro	Asp	Val
305					310					315					320
Ala	Pro	Ala	Pro	Leu	Pro	Glu	Asp	Glu	Ile	Lys	Ala	Glu	His	Asp	Ala
				325					330					335	
Ser	Pro	Leu	Val	Asp	Asp	Lys	Lys	Asp	Glu	Gly					
			340					345							

<210> 7308

<211> 614

<212> PRT

<213> Enterobacter cloacae

<400> 7308

```

Thr Ser Phe Ser Ser Ser Arg Cys Gly Lys Thr Lys Ile Trp Arg Asn
1          5          10          15
Val Val Gln Thr Phe Gln Ala Asp Leu Ala Val Ile Gly Ala Gly Gly
20          25          30
Ala Gly Leu Arg Ala Ala Ile Ala Ala Gln Ala Asn Pro Asn Ala
35          40          45
Lys Ile Ala Leu Ile Ser Lys Val Tyr Pro Met Arg Ser His Thr Val
50          55          60
Ala Ala Glu Gly Gly Ser Ala Ala Val Ala Gln Asp His Asp Ser Phe
65          70          75          80
Glu Tyr His Phe His Asp Thr Val Ala Gly Gly Asp Trp Leu Cys Glu
85          90          95
Gln Asp Val Val Asp Tyr Phe Val His His Cys Pro Thr Glu Met Thr
100          105          110
Gln Leu Glu Gln Trp Gly Cys Pro Trp Ser Arg Arg Pro Asp Gly Ser
115          120          125
Val Asn Val Arg Arg Phe Gly Gly Met Lys Ile Glu Arg Thr Trp Phe
130          135          140
Ala Ala Asp Lys Thr Gly Phe His Met Leu His Thr Leu Phe Gln Thr
145          150          155          160
Ser Leu Gln Phe Pro Gln Ile Gln Arg Phe Asp Glu His Phe Val Leu
165          170          175
Asp Ile Leu Val Asp Asp Gly His Ala Arg Gly Leu Val Ala Met Asn
180          185          190
Met Met Glu Gly Thr Leu Val Gln Ile Arg Ala Asn Ala Val Val Met
195          200          205
Ala Thr Gly Gly Ala Gly Arg Val Tyr Arg Tyr Asn Thr Asn Gly Gly
210          215          220
Ile Val Thr Gly Asp Gly Met Gly Met Ala Leu Ser His Gly Val Pro
225          230          235          240
Leu Arg Asp Met Glu Phe Val Gln Tyr His Pro Thr Gly Leu Pro Gly
245          250          255
Ser Gly Ile Leu Met Thr Glu Gly Cys Arg Gly Glu Gly Gly Ile Leu
260          265          270
Val Asn Lys Asn Gly Tyr Arg Tyr Leu Gln Asp Tyr Gly Met Gly Pro
275          280          285
Glu Thr Pro Leu Gly Glu Pro Lys Asn Lys Tyr Met Glu Leu Gly Pro
290          295          300
Arg Asp Lys Val Ser Gln Ala Phe Trp His Glu Trp Arg Lys Gly Asn
305          310          315          320
Thr Ile Ser Thr Pro Arg Gly Asp Val Val His Leu Asp Leu Arg His
325          330          335
Leu Gly Glu Lys Lys Leu Leu Glu Arg Leu Pro Phe Ile Cys Glu Leu
340          345          350
Ala Lys Ala Tyr Val Gly Val Asp Pro Val Lys Glu Pro Ile Pro Val
355          360          365
Arg Pro Thr Ala His Tyr Thr Met Gly Gly Ile Glu Thr Asp Gln Gln
370          375          380
Cys Glu Thr Arg Ile Lys Gly Leu Phe Ala Val Gly Glu Cys Ser Ser
385          390          395          400
Val Gly Leu His Gly Ala Asn Arg Leu Gly Ser Asn Ser Leu Ala Glu
405          410          415
Leu Val Val Phe Gly Arg Met Ala Gly Glu Arg Ala Val Glu Arg Ala
420          425          430
Ala Thr Ala Gly Glu Ala Asn Ser Ala Ala Leu Asp Ala Gln Val Val

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      435              440              445
Asp Val Glu Lys Arg Leu Lys Asp Leu Val Asn Gln Glu Gly Asn Glu
450              455              460
Asn Trp Ser Lys Ile Arg Asp Glu Met Gly Leu Ser Met Glu Glu Gly
465              470              475              480
Cys Gly Ile Tyr Arg Thr Pro Glu Leu Met Gln Lys Thr Val Asp Lys
      485              490              495
Leu Ala Glu Leu Gln Glu Arg Phe Lys Arg Val Arg Ile Thr Asp Thr
      500              505              510
Ser Ser Val Phe Asn Thr Asp Leu Leu Tyr Thr Ile Glu Leu Gly His
      515              520              525
Gly Leu Asn Val Ala Glu Cys Met Ala His Ser Ala Leu Ala Arg Lys
      530              535              540
Glu Ser Arg Gly Ala His Gln Arg Leu Asp Glu Gly Cys Thr Glu Arg
545              550              555              560
Asp Asp Val Asn Phe Leu Lys His Thr Leu Ala Trp Arg Asp Ala Asp
      565              570              575
Gly Thr Thr Arg Leu Asp Tyr Ser Asp Val Lys Ile Thr Thr Leu Pro
      580              585              590
Pro Ala Lys Arg Val Tyr Gly Ala Glu Ala Glu Ala Ala Asp Lys Lys
      595              600              605
Glu Lys Ala Asn Gly
      610

```

<210> 7309

<211> 139

<212> PRT

<213> Enterobacter cloacae

<400> 7309

```

Gln Gln Leu Ser Leu Trp Ser Phe Cys Leu Ser His Cys Phe Gly Lys
1              5              10              15
Glu Thr Thr Val Ile Asn Pro Asn Pro Lys Arg Ser Asp Glu Pro Val
      20              25              30
Phe Trp Gly Leu Phe Gly Ala Gly Gly Met Trp Ser Ala Ile Ile Ala
      35              40              45
Pro Val Ile Ile Leu Leu Val Gly Ile Met Leu Pro Leu Gly Leu Phe
      50              55              60
Pro Gly Asp Ala Leu Ser Tyr Glu Arg Val Leu Ala Phe Ala Ser Ser
      65              70              75              80
Phe Ile Gly Arg Val Phe Ile Phe Leu Met Ile Val Leu Pro Leu Trp
      85              90              95
Cys Gly Leu His Arg Ile His His Ala Met His Asp Leu Lys Ile His
      100              105              110
Val Pro Ser Gly Lys Trp Val Phe Tyr Gly Leu Ala Thr Ile Leu Thr
      115              120              125
Val Val Thr Leu Ile Ala Val Val Thr Ile
      130              135

```

<210> 7310

<211> 1161

<212> PRT

<213> Enterobacter cloacae

<400> 7310

```

Pro Asn Ser Ala Ser Leu Trp Gln Tyr Arg Arg Arg Ser Leu Gln His
1              5              10              15
Gln Thr Leu Arg Gln Pro Arg Cys Arg Lys Met Arg Ser Lys Pro Ser
      20              25              30
Thr Thr Pro Ala Arg Trp Leu Thr Thr Lys Lys Thr Lys Ala Asn Asn
      35              40              45

```

Arg	Arg	Ile	Ala	Asp	Val	Arg	Pro	Ile	Ile	Val	Leu	Leu	Met	Ala	Trp
50						55					60				
Cys	Leu	Ser	Met	Gly	Ala	Tyr	Ala	Ala	Thr	Ala	Pro	Asp	Ala	Lys	Gln
65					70					75					80
Ile	Thr	Gln	Glu	Leu	Glu	Gln	Ala	Lys	Ala	Ala	Lys	Pro	Ala	Gln	Pro
				85					90					95	
Glu	Thr	Val	Glu	Ser	Leu	Gln	Ser	Ala	Leu	Asn	Ala	Leu	Glu	Glu	Arg
			100					105					110		
Lys	Gly	Ser	Leu	Glu	Arg	Ala	Gln	Gln	Tyr	Gln	Gln	Val	Ile	Asp	Asn
		115					120					125			
Phe	Pro	Lys	Leu	Ser	Gln	Thr	Leu	Arg	Ser	Gln	Leu	Asn	Asn	Leu	Arg
	130					135					140				
Asp	Glu	Pro	Arg	Gln	Val	Pro	Ala	Gly	Met	Thr	Ser	Glu	Ala	Leu	Asn
145					150					155					160
Gln	Glu	Ile	Leu	Gln	Val	Ser	Ser	Gln	Leu	Leu	Glu	Lys	Ser	Arg	Leu
				165					170					175	
Ala	Gln	Gln	Glu	Gln	Glu	Arg	Ala	Arg	Glu	Ile	Ala	Asp	Ser	Leu	Ser
			180					185					190		
Gln	Leu	Pro	Gln	Gln	Gln	Thr	Asp	Ala	Arg	Arg	Gln	Leu	Asn	Glu	Val
		195					200					205			
Glu	Arg	Arg	Ile	Gly	Thr	Gln	Thr	Gly	Ser	Thr	Pro	Gln	Asn	Gln	Ala
	210					215					220				
Gln	Asn	Leu	Gly	Leu	Gln	Ala	Glu	Ser	Ala	Arg	Leu	Lys	Ala	Leu	Val
225					230					235					240
Asp	Glu	Leu	Glu	Leu	Ala	Gln	Leu	Ser	Ala	Asn	Asn	Arg	Gln	Glu	Leu
				245					250					255	
Ser	Arg	Met	Arg	Ser	Glu	Leu	Ala	Gln	Lys	Gln	Ser	Gln	Gln	Leu	Asp
		260						265					270		
Ala	Tyr	Leu	Gln	Ala	Leu	Arg	Asn	Gln	Leu	Asn	Ser	Gln	Arg	Gln	Arg
	275						280					285			
Glu	Ala	Glu	Arg	Ala	Leu	Glu	Ser	Thr	Glu	Leu	Leu	Ala	Glu	Asn	Ser
	290					295					300				
Ala	Asn	Leu	Pro	Asp	Ser	Ile	Val	Ala	Gln	Phe	Lys	Val	Asn	Arg	Glu
305					310					315					320
Leu	Ser	Ala	Ala	Leu	Asn	Gln	Gln	Ala	Gln	Arg	Met	Asp	Leu	Val	Ala
				325					330					335	
Ser	Gln	Gln	Arg	Gln	Ala	Thr	Asn	Gln	Thr	Leu	Gln	Val	Arg	Gln	Ala
		340						345					350		
Leu	Asn	Thr	Leu	Arg	Glu	Gln	Ser	Gln	Trp	Leu	Gly	Ser	Ser	Asn	Leu
	355						360					365			
Leu	Gly	Glu	Ala	Leu	Arg	Ala	Gln	Val	Ala	Arg	Leu	Pro	Glu	Met	Pro
	370					375					380				
Lys	Pro	Gln	Gln	Leu	Asp	Thr	Glu	Met	Ala	Gln	Leu	Arg	Val	Gln	Arg
385					390					395					400
Leu	His	Tyr	Glu	Asp	Leu	Leu	Asn	Lys	Gln	Pro	Gln	Ile	Arg	Gln	Ile
				405					410					415	
Arg	Gln	Ala	Asp	Gly	Gln	Pro	Leu	Thr	Gly	Glu	Gln	Ser	Arg	Ile	Leu
		420						425					430		
Glu	Ala	Gln	Leu	Arg	Thr	Gln	Arg	Glu	Leu	Leu	Asn	Ser	Leu	Leu	Gln
		435					440					445			
Gly	Gly	Asp	Thr	Leu	Ile	Leu	Glu	Leu	Thr	Lys	Leu	Lys	Val	Ser	Asn
	450					455					460				
Ser	Gln	Leu	Glu	Asp	Ala	Leu	Lys	Glu	Val	Asn	Glu	Ala	Thr	His	Arg
465					470					475					480
Tyr	Leu	Phe	Trp	Thr	Ser	Asp	Val	Arg	Pro	Met	Thr	Phe	Ala	Trp	Pro
				485					490					495	
Ile	Glu	Ile	Val	Gln	Asp	Leu	Arg	Arg	Leu	Ile	Ser	Leu	Asp	Thr	Phe
			500					505					510		
Ser	Gln	Leu	Gly	Leu	Ala	Ser	Val	Met	Met	Ile	Thr	Ser	Lys	Glu	Thr
		515					520						525		
Ile	Phe	Pro	Leu	Leu	Gly	Ala	Leu	Ile	Leu	Val	Gly	Phe	Ser	Ile	Tyr

530	535	540
Ser Arg Arg His Phe Thr	Arg Phe Leu Glu Arg	Ser Ser Ala Arg Val
545	550	555
Gly Lys Val Thr Gln Asp	His Phe Trp Leu Thr	Leu Arg Thr Val Phe
	565	570
Trp Ser Ile Leu Val Ala	Ser Pro Leu Pro Val	Leu Trp Met Thr Leu
	580	585
Gly Tyr Gly Leu Arg Glu	Ala Trp Pro Tyr Pro	Leu Ala Val Ala Ile
	595	600
Gly Asp Gly Val Thr Ala	Thr Val Pro Leu Leu	Trp Val Val Met Ile
	610	615
Cys Ala Thr Phe Ala Arg	Pro Asn Gly Leu Phe	Ile Ala His Phe Gly
625	630	635
Trp Pro Arg Asn Arg Val	Ala Arg Ala Met Arg	Tyr Tyr Leu Met Ser
	645	650
Ile Gly Leu Ile Val Pro	Leu Ile Met Ala Leu	Ile Met Phe Asp Asn
	660	665
Leu Asn Asp Arg Glu Phe	Ser Gly Ser Leu Gly	Arg Leu Cys Phe Met
	675	680
Leu Ile Cys Gly Ala Leu	Ala Val Val Thr Leu	Ser Leu Lys Arg Ala
	690	695
Gly Ile Pro Leu Tyr Leu	Asp Lys Thr Gly Ser	Gly Asp Asn Met Leu
705	710	715
Asn Arg Leu Leu Trp Asn	Leu Leu Leu Ser Ala	Pro Leu Ala Ala Met
	725	730
Leu Ala Ala Ala Val Gly	Tyr Leu Ala Thr Ser	Gln Ala Leu Leu Ala
	740	745
Arg Leu Glu Thr Ser Val	Ala Ile Trp Phe Leu	Leu Leu Val Val Tyr
	755	760
His Val Ile Arg Arg Gly	Met Leu Ile Gln Arg	Arg Arg Leu Ala Phe
	770	775
Asp Arg Ala Lys His Arg	Arg Ala Glu Ile Leu	Ala Gln Arg Ala Arg
785	790	795
Gly Glu Glu Glu Pro Asn	His Val Asn Ser Thr	Glu Gly Thr Thr Asp
	805	810
Ala Asp Asp Val Glu Leu	Asp Leu Asp Ala Ile	Ser Thr Gln Ser Leu
	820	825
Arg Leu Val Arg Ser Ile	Leu Met Leu Val Ala	Leu Leu Ser Val Ile
	835	840
Tyr Leu Trp Ser Glu Ile	His Ser Ala Phe Gly	Phe Leu Glu Asn Ile
	850	855
Ser Leu Trp Asp Val Thr	Ser Thr Val Gln Gly	Val Glu Ser Leu Glu
865	870	875
Pro Ile Thr Leu Gly Ala	Val Leu Ile Ala Ile	Leu Val Leu Ile Ile
	885	890
Thr Thr Gln Leu Ile Arg	Asn Phe Pro Ala Leu	Leu Glu Leu Ala Leu
	900	905
Leu Gln His Leu Asp Leu	Thr Pro Gly Thr Gly	Tyr Ala Ile Thr Thr
	915	920
Ile Thr Lys Tyr Leu Ile	Met Leu Phe Gly Gly	Leu Val Gly Phe Ser
	930	935
Met Ile Gly Ile Glu Trp	Ser Lys Leu Gln Trp	Leu Val Ala Ala Leu
945	950	955
Thr Val Gly Leu Gly Phe	Gly Leu Gln Glu Ile	Phe Ala Asn Phe Val
	965	970
Ser Gly Leu Ile Leu Phe	Glu Lys Pro Ile Arg	Ile Gly Asp Thr
	980	985
Val Thr Ile Arg Asp Leu	Thr Gly Ser Val Thr	Arg Ile Asn Thr Arg
	995	1000
Ala Thr Thr Ile Ser Asp	Trp Asp Arg Lys Glu	Ile Ile Val Pro Asn
1010	1015	1020

Lys Ala Phe Ile Thr Glu Gln Phe Ile Asn Trp Ser Leu Ser Asp Ser
 1025 1030 1035 1040
 Val Thr Arg Val Val Leu Thr Val Pro Ala Pro Ser Asp Ala Asn Ser
 1045 1050 1055
 Glu Glu Val Thr Gln Ile Leu Tyr Thr Ala Ala Glu Arg Cys Ser Leu
 1060 1065 1070
 Val Ile Asp Asn Pro Pro Pro Glu Val Phe Leu Val Asp Leu Gln Gln
 1075 1080 1085
 Gly Ile Gln Ile Phe Glu Leu Arg Ile Tyr Ala Ala Glu Met Gly His
 1090 1095 1100
 Arg Met Pro Leu Arg His Glu Ile His Gln Leu Ile Leu Ala Gly Phe
 1105 1110 1115 1120
 Arg Glu His Gly Ile Asp Met Pro Phe Pro Pro Phe Gln Met Arg Leu
 1125 1130 1135
 Glu Thr Leu Asp Gly Arg Lys Thr Gly Arg Thr Leu Thr Ser Ala Ala
 1140 1145 1150
 Arg Thr Arg Pro Ala Gly Ser Leu
 1155 1160

<210> 7311

<211> 270

<212> PRT

<213> Enterobacter cloacae

<400> 7311

Lys Ser Pro Arg Cys His Arg Arg Asn Ala Cys Thr Val Gln Lys Gln
 1 5 10 15
 Lys Pro Pro Ile Arg Arg Arg Arg Met Ala Glu Met Gln Lys Leu
 20 25 30
 Lys Val Glu Val Val Arg Tyr Asn Pro Glu Val Asp Ala Ala Pro His
 35 40 45
 Ser Ala Phe Tyr Glu Val Pro Tyr Asp Glu Gln Thr Ser Leu Leu Asp
 50 55 60
 Ala Leu Gly Tyr Ile Lys Asp Asn Leu Ala Pro Asp Leu Ser Tyr Arg
 65 70 75 80
 Trp Ser Cys Arg Met Ala Ile Cys Gly Ser Cys Gly Met Met Val Asn
 85 90 95
 Lys Val Pro Lys Leu Ala Cys Lys Thr Phe Leu Arg Asp Tyr Thr Lys
 100 105 110
 Gly Ile Lys Val Glu Ala Leu Gly Asn Phe Pro Ile Glu Arg Asp Leu
 115 120 125
 Val Val Asp Met Thr His Phe Ile Glu Ser Leu Glu Ala Ile Lys Pro
 130 135 140
 Tyr Ile Ile Gly Asn Pro Arg Thr Pro Asp Gln Gly Pro Asn Thr Gln
 145 150 155 160
 Thr Pro Ala Gln Met Ala Lys Tyr His Gln Phe Ser Gly Cys Ile Asn
 165 170 175
 Cys Gly Leu Cys Tyr Ala Ala Cys Pro Gln Phe Gly Leu Asn Pro Glu
 180 185 190
 Phe Ile Gly Pro Ala Ala Ile Thr Leu Ala His Arg Tyr Asn Glu Asp
 195 200 205
 Ser Arg Asp His Gly Lys Lys Glu Arg Met Ala Gln Leu Asn Ser Gln
 210 215 220
 Asn Gly Val Trp Thr Cys Thr Phe Val Gly Tyr Cys Ser Glu Val Cys
 225 230 235 240
 Pro Lys His Val Asp Pro Ala Ala Ala Ile Gln Gln Gly Lys Val Glu
 245 250 255
 Ser Ser Lys Asp Phe Leu Ile Ala Thr Leu Lys Pro Arg
 260 265 270

<210> 7312

<211> 301

<212> PRT

<213> Enterobacter cloacae

<400> 7312

```

Leu Leu Ile Phe Leu Thr Glu Glu Thr Met Thr Arg Ser Tyr Leu Pro
1          5          10          15
Leu Asn Ser Leu Arg Ala Phe Glu Ala Ala Arg His Leu Ser Phe
20          25          30
Thr His Ala Ala Ile Glu Leu Asn Val Thr His Ser Ala Ile Ser Gln
35          40          45
His Val Lys Thr Leu Glu Gln His Leu Asn Cys Gln Leu Phe Val Arg
50          55          60
Val Ser Arg Gly Leu Met Leu Thr Thr Glu Gly Glu Asn Leu Leu Pro
65          70          75          80
Val Leu Asn Asp Ser Phe Asp Arg Ile Ala Gly Met Leu Asp Arg Phe
85          90          95
Ala Asn His Arg Ala Gln Glu Lys Leu Lys Ile Gly Val Val Gly Thr
100         105         110
Phe Ala Thr Gly Val Leu Phe Ser Gln Leu Glu Asp Phe Arg Arg Gly
115         120         125
Tyr Pro His Ile Asp Leu Gln Leu Ser Thr His Asn Asn Arg Val Asp
130         135         140
Pro Ala Ala Glu Gly Leu Asp Tyr Thr Ile Arg Tyr Gly Gly Gly Ala
145         150         155         160
Trp His Gly Thr Glu Ala Glu Phe Leu Cys His Ala Pro Leu Ala Pro
165         170         175
Leu Cys Thr Pro Asp Ile Ala Ala Ser Leu His Ser Pro Ala Asp Ile
180         185         190
Leu Arg Phe Thr Leu Leu Arg Ser Tyr Arg Arg Asp Glu Trp Thr Ala
195         200         205
Trp Met Gln Ala Ala Gly Glu His Pro Pro Ser Pro Thr His Arg Val
210         215         220
Met Val Phe Asp Ser Ser Val Thr Met Leu Glu Ala Ala Gln Ala Gly
225         230         235         240
Val Gly Ile Ala Ile Ala Pro Val Asp Met Phe Thr His Leu Leu Ala
245         250         255
Ser Glu Arg Ile Val Gln Pro Phe Ala Thr Gln Ile Glu Leu Gly Ser
260         265         270
Tyr Trp Leu Thr Arg Leu Gln Ser Arg Ala Glu Thr Pro Ala Met Arg
275         280         285
Glu Phe Ser Arg Trp Leu Val Glu Lys Met Lys Lys
290         295         300

```

<210> 7313

<211> 327

<212> PRT

<213> Enterobacter cloacae

<400> 7313

```

Leu Met Ser Glu Thr Ala Thr Trp Gln Pro Ser Ala Ser Ile Pro Asn
1          5          10          15
Leu Leu Lys Arg Ala Ala Ile Met Ala Glu Ile Arg Arg Phe Phe Ala
20          25          30
Asp Arg Gly Val Leu Glu Val Glu Thr Pro Cys Met Ser Gln Ala Thr
35          40          45
Val Thr Asp Ile His Leu Val Pro Phe Glu Thr Arg Phe Val Gly Pro
50          55          60
Gly His Ser Gln Gly Met Asn Leu Tyr Leu Met Thr Ser Pro Glu Tyr
65          70          75          80
His Met Lys Arg Leu Leu Ala Ala Gly Cys Gly Pro Val Tyr Gln Leu

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```
<210> 7314
<211> 521
<212> PRT
<213> Enterobacter cloacae
```

Pro	Gln	Tyr	Leu	Ser	Gly	His	Leu	Leu	Pro	Ser	Ala	Gln	Phe	Asn	Ser
1				5					10					15	
Val	Ser	Asp	Gly	Tyr	Met	Ser	His	Ser	Leu	Lys	Lys	Met	Thr	Leu	Thr
			20					25					30		
Gly	Leu	Ile	Leu	Met	Ile	Phe	Thr	Ser	Val	Phe	Gly	Phe	Ala	Asn	Ser
		35					40					45			
Pro	Ser	Ala	Phe	Tyr	Leu	Met	Gly	Tyr	Ser	Ala	Thr	Pro	Phe	Tyr	Ile
	50					55					60				
Val	Ser	Ala	Leu	Phe	Phe	Phe	Ile	Pro	Phe	Ala	Leu	Met	Met	Ala	Glu
65					70				75					80	
Met	Gly	Ser	Ala	Tyr	Arg	Lys	Glu	Glu	Gly	Gly	Ile	Tyr	Ser	Trp	Met
				85					90					95	
Asn	Asn	Ser	Val	Gly	Pro	Arg	Tyr	Ala	Phe	Ile	Gly	Thr	Phe	Met	Trp
			100					105					110		
Phe	Ser	Ser	Tyr	Val	Val	Trp	Met	Val	Ser	Thr	Ala	Ala	Lys	Val	Trp
		115					120					125			
Val	Pro	Phe	Ser	Thr	Phe	Leu	Phe	Gly	Ala	Asp	Lys	Thr	Gln	Val	Trp
	130					135					140				
Ser	Leu	Ala	Gly	Leu	Ser	Ser	Thr	Gln	Val	Val	Gly	Ile	Leu	Ala	Val
145					150					155				160	
Cys	Trp	Met	Val	Val	Val	Thr	Leu	Val	Ala	Ser	Lys	Gly	Ile	Asn	Lys
				165					170					175	
Ile	Ala	Arg	Ile	Thr	Ala	Val	Gly	Gly	Ile	Ser	Val	Met	Cys	Leu	Asn

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<210> 7315
<211> 214
<212> PRT
<213> Enterobacter cloacae
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<400> 7315															
Asn	Met	Ala	Lys	Tyr	Pro	Ile	Ser	Asn	Lys	Ala	Asp	Asn	Asp	Arg	Ile
1				5					10					15	
Gln	Ile	Arg	Ser	Phe	Trp	Ile	Ser	Glu	Arg	Lys	Ala	Pro	Tyr	Val	Tyr
			20					25					30		
Ser	Phe	Leu	Lys	Lys	Thr	Glu	Leu	Cys	His	Arg	Gly	Asp	Gln	Leu	Asp
		35					40					45			
Leu	Ile	Arg	Ser	Ala	Ile	Ser	Thr	Gly	Leu	Val	Leu	Asn	Asn	Leu	Phe
	50					55					60				
Pro	Asp	Leu	Ala	Asn	Phe	Ile	Asn	Gly	Leu	Asn	Glu	Arg	Leu	Thr	Leu
65				70						75				80	
Ala	Asp	Leu	Asn	Arg	Phe	Leu	Asn	Asp	Gly	Asn	Thr	Ile	Asp	Thr	Glu

				85					90					95			
Pro	Lys	Pro	Pro	Ile	Asn	Val	Leu	Leu	Glu	Asn	Val	Leu	Asp	Gln	Lys		
			100					105					110				
Phe	Lys	Glu	Tyr	Leu	Thr	Pro	Leu	Gln	Leu	Asp	Asn	Ser	Lys	Gln	Asp		
		115					120					125					
Ser	Val	Ser	Val	Lys	Glu	Thr	Phe	Leu	Val	Gln	Lys	Glu	His	Ala	Cys		
		130				135					140						
Phe	Gly	Val	Lys	Ile	Glu	Asn	Glu	Gly	Ser	Asp	Thr	Ser	Ile	Pro	Ser		
145					150					155					160		
Glu	Ser	Pro	Leu	Ser	Ser	Gly	Ala	Ser	Lys	Ile	Ser	Lys	Glu	Lys	Ser		
			165						170					175			
Ile	Ser	Ser	Val	Val	Pro	Val	Leu	Glu	Lys	Val	Ser	Asp	Glu	Asn	Gln		
			180					185					190				
Thr	Ala	Ser	Ile	Ser	Ile	Lys	Ser	Lys	Ala	Lys	Ala	Asn	Lys	Arg	Leu		
		195					200					205					
Ala	Thr	Leu	Ala	Arg													
		210															

<210> 7316

<211> 102

<212> PRT

<213> Enterobacter cloacae

<400> 7316

Leu	His	Lys	Ile	Ser	Arg	Arg	Val	Arg	Ala	His	Met	Ser	His	Thr	Ile		
1				5					10					15			
Arg	Asp	Lys	Gln	Lys	Leu	Lys	Ala	Arg	Thr	Ser	Lys	Ile	Gln	Gly	Gln		
		20						25					30				
Val	Ala	Ala	Leu	Lys	Lys	Met	Leu	Asp	Glu	Pro	His	Glu	Cys	Ala	Ala		
		35				40						45					
Val	Leu	Gln	Gln	Ile	Ala	Ala	Ile	Arg	Gly	Ala	Val	Asn	Gly	Leu	Leu		
	50					55					60						
Arg	Glu	Val	Ile	Lys	Gly	His	Leu	Thr	Glu	His	Ile	Val	His	Glu	Ser		
65					70					75					80		
Glu	Glu	Gln	Lys	Arg	Glu	Glu	Asp	Leu	Asp	Val	Val	Leu	Lys	Val	Leu		
			85						90					95			
Asp	Ser	Tyr	Ile	Lys													
			100														

<210> 7317

<211> 437

<212> PRT

<213> Enterobacter cloacae

<400> 7317

Glu	Trp	Lys	Arg	Ser	Tyr	Leu	Tyr	Arg	Gln	Tyr	Leu	Ala	Ser	Glu	Cys		
1				5					10					15			
Ser	Glu	Arg	Ser	Tyr	Gln	His	Ile	Phe	Cys	Lys	Pro	Ala	Ser	Gly	Arg		
		20						25					30				
Arg	Lys	Lys	Met	Met	Ile	Glu	Asn	Asp	Lys	Glu	Lys	Ser	Leu	Asn	Asp		
		35					40					45					
Ala	Thr	Ser	Pro	Glu	Val	Gln	Asn	Asp	Ile	Arg	Ser	Glu	Ser	Thr	Glu		
	50					55					60						
Lys	Ser	Lys	Glu	Met	Gly	Arg	Ser	Arg	Tyr	Ser	Ser	Ile	Ala	Met	Ile		
65					70					75					80		
Asp	Tyr	Phe	Asn	Ala	Ile	Glu	Arg	Leu	Cys	Glu	Glu	Lys	Lys	Ile	Asn		
			85						90					95			
Pro	Glu	Asn	Ile	Asp	Leu	Ser	Phe	Lys	Val	His	Trp	Leu	Arg	Asn	Ala		
		100						105					110				
Val	Gly	Gly	Ser	Phe	Ala	Arg	Ser	Gln	Glu	Met	Phe	Ala	Glu	Tyr	Gln		
		115					120						125				

Lys Tyr Val Lys Glu Val Pro Glu Glu Ala Arg Tyr Leu Asp Ile Pro
 130 135 140
 Asp Glu Val Lys Val Ala Leu Gly Asp Ile Ile Ser Tyr Ile Thr Trp
 145 150 155 160
 His Tyr Arg Arg Ser Tyr Thr Ala Ile Gln Ser Asp Ser Val Lys Lys
 165 170 175
 Ala Glu Ala Arg Ser Met Gln Leu Glu Glu Glu Val Thr Gln Leu Leu
 180 185 190
 Gln Arg Leu Glu Gln Ser Ala Thr Asp Met Asp Glu Leu Lys Leu Glu
 195 200 205
 Asn Gln Ala Leu Gln Gly Arg Leu Glu Ile Arg Asp Ser Thr Val Lys
 210 215 220
 Glu Leu Glu Thr Arg Leu Asn Val Ala Glu Ala Glu Leu Glu Thr Cys
 225 230 235 240
 His His Gln Leu Asp Ser Thr Arg His Glu Leu Ser Leu Ala Gln Gln
 245 250 255
 Ser Asn Asp Ser Leu Ser Gln Gln Leu Ala Glu Arg Lys Thr Glu Ile
 260 265 270
 Ala Gly His Leu Glu Tyr Gln Lys Leu Asn Glu Glu Ile Asn Thr
 275 280 285
 Gln Arg Ser Asp Asn Ala Gly Leu Ser Arg Gln Cys Asp Gln Leu Ser
 290 295 300
 Gln Thr Val Ser Asp Thr Lys Ala Glu Arg Asp Arg Phe Glu Gln Glu
 305 310 315 320
 Leu Ile Ala Ala Gln Asn Leu Cys Ala Glu Leu Lys Ser Ala Leu Ser
 325 330 335
 Gly Lys Glu Gly Asp Leu Val Ala Val Asn Ala Glu Leu Thr Glu Leu
 340 345 350
 His Lys Leu Asn Glu Ser Leu Ser Ala Asp Leu Lys Lys Val Thr Leu
 355 360 365
 Val Ser Gln Gly Tyr Glu Ala Glu Val Ala Glu Gln Ser Ser Glu Leu
 370 375 380
 Lys Thr Leu Gln Ser Lys Val Met Lys Leu Glu Ala Thr Leu Glu Ala
 385 390 395 400
 Glu Lys Thr Ile Ser Glu Ser Leu Lys Gly Thr Ile Asp Thr Leu Thr
 405 410 415
 Gly Ala Met Ala Gly Gly Gly Thr Gly Lys Ser Lys Gln Pro Arg Ser
 420 425 430
 Arg Lys Thr Ser
 435

<210> 7318

<211> 255

<212> PRT

<213> Enterobacter cloacae

<220>

<221> UNSURE

<222> (20)

<400> 7318

Phe Ser Pro Lys Thr Arg Lys Leu Gly Arg Leu Lys Val His Gln Gln
 1 5 10 15
 Leu His Val Xaa Gly Leu Val Pro Gln Asp Val His Leu Phe Val Thr
 20 25 30
 Val Pro Leu Ser Gln Phe Tyr Thr Ala Leu Gly Glu Thr Asn Ile Glu
 35 40 45
 Asn Ile Gln Arg Lys Lys Asp Asn Leu Met Lys Pro Val Glu Arg Tyr
 50 55 60
 Leu Asp Gly Lys Arg Tyr Ser Phe Asn Val Leu Ser Val Thr Val Phe
 65 70 75 80

Pro Glu Ser Leu Pro Ala Val Thr Arg Ala Asp Glu Ile Glu Asp Ile
85 90 95
Ala Ser Phe Glu Ser Ser Leu Val Ile Asp Leu Gly Gly Thr Thr Leu
100 105 110
Asp Val Ala Ser Ile Thr Gly Gln Leu Glu Gln Ile Ser Lys Val Lys
115 120 125
Gly Phe Asp Arg Ile Gly Cys Ser Ile Val Tyr Asp Glu Ile Ser Arg
130 135 140
Tyr Leu Glu Ser Glu Lys Leu Asn Thr Ser Asn Ala Tyr Ile His His
145 150 155 160
Leu Val Asp Asn Arg His Asp Lys Ser Ala Leu Lys Val Ala Glu Asp
165 170 175
Lys Arg Asp Gly Val Phe Asp Ala Val Asn Ser Ala Val Gln Lys Leu
180 185 190
Gln Ser Lys Val Ile Arg Ala Val Thr Gln Val Glu Glu Arg Pro His
195 200 205
Asn Val Phe Leu Val Gly Gly Gly Ser Tyr Leu Ile Glu Thr Ala Ile
210 215 220
Arg Lys His Phe Glu Thr Ala Lys Val Ile Met Val Asp Asn Pro Gln
225 230 235 240
Phe Ala Leu Ser Leu Ala Ile Ala Asp Thr Ile Tyr Ser Glu
245 250 255

<210> 7319

<211> 472

<212> PRT

<213> Enterobacter cloacae

<400> 7319

Val Thr Ile Tyr Arg Pro Thr Val Ala Gln Glu Met Gly Gly Asp His
1 5 10 15
Ser Ile Asn Lys Ala Ala Val Met Leu Thr Val Trp Trp Leu Ser Ser
20 25 30
Phe Ile Leu Ile Ser Thr Leu Asn Gly Tyr Phe Asp Asn Gln Asp Arg
35 40 45
Asp Phe Leu Thr Gly Lys Leu Gln Leu Thr Glu Glu Phe Leu Lys Thr
50 55 60
Glu Thr Phe Arg Asn Lys Thr Asp Ile Lys Ser Leu Ser Glu Lys Ile
65 70 75 80
Asn Asp Ala Met Val Gly His Asn Gly Leu Phe Ile Ser Ile Lys Asn
85 90 95
Met Glu Asn Glu Lys Ile Val Glu Leu Tyr Ala Lys Asn Ser Val Val
100 105 110
Pro Ala Val Leu Leu Asn Lys Ser Gly Asp Ile Leu Asp Tyr Met Ile
115 120 125
Gln Thr Glu Glu Asn Asn Thr Val Tyr Arg Ser Ile Ser Arg Arg Val
130 135 140
Ala Val Thr Pro Glu Gln Gly Lys Ser Lys His Val Ile Ile Thr Val
145 150 155 160
Ala Thr Asp Thr Gly Tyr His Thr Leu Phe Met Asp Lys Leu Ser Thr
165 170 175
Trp Leu Phe Trp Phe Asn Ile Gly Leu Val Phe Ile Ser Val Phe Leu
180 185 190
Gly Trp Leu Thr Thr Arg Ile Gly Leu Lys Pro Leu Arg Glu Met Thr
195 200 205
Ser Leu Ala Ser Ser Met Thr Val His Ser Leu Asp Gln Arg Leu Asn
210 215 220
Pro Asp Leu Ala Pro Pro Glu Ile Ser Glu Thr Met Gln Glu Phe Asn
225 230 235 240
Asn Met Phe Asp Arg Leu Glu Gly Ser Phe Arg Lys Leu Ser Asp Phe
245 250 255

Ser Ser Asp Ile Ala His Glu Leu Arg Thr Ala Val Ser Asn Leu Met
 260 265 270
 Met Gln Thr Gln Phe Ala Leu Ala Lys Glu Arg Asp Val Ser His Tyr
 275 280 285
 Arg Glu Ile Leu Phe Ala Tyr Leu Glu Glu Leu Lys Arg Leu Ser Arg
 290 295 300
 Met Thr Ser Asp Met Leu Phe Leu Ala Arg Ser Glu His Gly Leu Leu
 305 310 315 320
 Gln Leu Asp Lys His Asp Val Asp Leu Ala Ala Glu Leu Asn Glu Leu
 325 330 335
 Arg Glu Leu Phe Glu Pro Leu Ala Asp Glu Thr Gly Lys Thr Ile Thr
 340 345 350
 Val Glu Gly Glu Gly Val Val Ala Gly Asp Ser Asp Met Leu Arg Arg
 355 360 365
 Ala Phe Ser Asn Leu Leu Ser Asn Ala Ile Lys Tyr Ser Pro Asp Asn
 370 375 380
 Thr Cys Thr Ala Ile His Leu Glu Arg Asp Ser Asp Cys Val Asn Val
 385 390 395 400
 Met Ile Thr Asn Thr Met Ser Gly Gln Val Pro Ala Asn Leu Glu Arg
 405 410 415
 Leu Phe Asp Arg Phe Tyr Arg Ala Asp Ser Ser Arg Val His Asn Thr
 420 425 430
 Glu Gly Ala Gly Leu Gly Leu Ser Ile Thr Arg Ser Ile Ile His Ala
 435 440 445
 His Gly Gly Glu Leu Ser Ala Glu Gln Gln Gly Arg Glu Ile Val Phe
 450 455 460
 Ser Val Arg Leu Leu Met Asp
 465 470

<210> 7320

<211> 275

<212> PRT

<213> Enterobacter cloacae

<400> 7320

Val Ile Val Val Ser Tyr Gln Gly Ser Glu Pro Val Pro Ala Ser Arg
 1 5 10 15
 Thr Gly Gln Leu Ile Ser Ala Arg Asp Met Ala Met Gln Lys Phe Glu
 20 25 30
 Glu Gly Met Arg Leu Ile Ser Glu Ala Ser Glu Leu Cys Gly Leu Ser
 35 40 45
 Leu Phe Thr Ser Arg Ile Met Gln Pro Asn Ala Phe Gly Leu Pro Ser
 50 55 60
 Ser Leu Asp Arg Thr Ile Glu Glu Gly Arg Lys Glu Ile Asp Arg Lys
 65 70 75 80
 Thr Trp Lys Arg Leu Phe Glu Glu Ile Gly Met Asp Arg Tyr Trp Asn
 85 90 95
 His Lys Gln Lys Glu Ala Phe Asn Glu Ser Leu Arg Thr Asp Pro Pro
 100 105 110
 Val Ala Ser Leu Glu Ile Val Lys Gly Thr Leu Gln His Ala Leu Ala
 115 120 125
 Asn Arg Arg Asp Thr Leu Ala Glu Gly Phe Val Asp Val Leu Asn Lys
 130 135 140
 Leu Asp Arg Ser Phe Lys Ser Asn Ala Arg Gln Tyr Thr Met Pro Lys
 145 150 155 160
 Lys Leu Val Leu Arg Gly Ile Phe Pro Gly Val Asn Val Leu Arg Tyr
 165 170 175
 Asn Gly Phe Ser Gln Asp Asn His Phe Cys Leu Arg Asp Phe Glu Asn
 180 185 190
 Ile Val Cys Ile Cys Ser Asp Thr Pro Thr Pro Ala Thr Gly Gly Gly
 195 200 205

Leu Ser Met Val Asp Arg Leu Thr Ala Met Arg Asn Thr Asp Phe Thr
 210 215 220
 Gly Glu Val Cys Asp Glu Asn Gly Trp Arg Cys Arg Leu Phe Glu Asn
 225 230 235 240
 Gly Asn Val His Ile Cys Ile Asp Ser Ile Ser Leu Leu Asn Ala Leu
 245 250 255
 Asn Asp Leu Ile Ser Ile Tyr Phe Ala Asn Gln Leu Pro Ala Ala Gly
 260 265 270
 Lys Lys
 275

<210> 7321

<211> 149

<212> PRT

<213> Enterobacter cloacae

<400> 7321

Val Ala Ala Lys Thr Asn Lys Asp Asp Thr Phe Thr Val Leu Gly Ser
 1 5 10 15
 Glu Met Thr Ala Ile Asp Asp Phe Arg Ile Ile Arg Ala Arg Ala Phe
 20 25 30
 Ala Val Cys Asp Val Val Ala Lys Leu Ile Glu Arg Phe His Asp Asp
 35 40 45
 Val Lys Gly Ile Thr Leu Ile Val Thr Leu Gln Ile Phe Tyr Val Phe
 50 55 60
 Gln Asn Lys Asn Cys Arg Leu Phe Cys Pro Asp Asp Pro Gly His Ile
 65 70 75 80
 Lys Glu Glu Arg Thr Leu Ser Val Ala Leu Glu Thr Val Phe Ala Thr
 85 90 95
 His Arg Val Leu Phe Thr Asp Thr Gly Asp Ala Glu Trp Leu Ala Trp
 100 105 110
 Lys Ser Arg Lys Lys Asn Ile Met Ile Arg Asp Arg Gly Ile Asp Lys
 115 120 125
 Phe Val Cys Leu Val Ile Ser Asn Leu Gly Pro Val Ala Lys Ser Asp
 130 135 140
 Val Thr Asp Val
 145

<210> 7322

<211> 85

<212> PRT

<213> Enterobacter cloacae

<400> 7322

Val Arg Asn Val Val Gln Arg Gln Val Cys Thr Asp Asp Phe Met Cys
 1 5 10 15
 Val Ala Val Asn Cys Gln Met Gln Leu Thr Pro Tyr Thr Ala Ala Phe
 20 25 30
 Leu Ala Met Leu Phe Asp Phe Pro Leu Ala Phe Thr Glu Asp Leu Gln
 35 40 45
 Pro Gly Gly Ile Asn Tyr Gln Val Cys Asp Phe Thr Pro Gly Gly Arg
 50 55 60
 Phe Glu Thr Asp Ile Asn Arg Leu Cys Pro Pro Ala Asp Thr Ala Val
 65 70 75 80
 Ile Arg Ala Ala
 85

<210> 7323

<211> 156

<212> PRT

<213> Enterobacter cloacae

<400> 7323

```

Leu Phe Gly Tyr Glu Asn Thr Gly Asp Pro Thr Met Lys Lys Ile Leu
1      5      10      15
Val Ser Phe Val Ala Ile Met Ala Val Ala Ser Ser Ala Met Ala Ala
      20      25      30
Glu Thr Met Asn Met His Asp Gln Val Asn Asn Ala Gln Ala Pro Ala
      35      40      45
His Gln Met Gln Ser Thr Ser Glu Lys Ser Ala Val Gln Gly Asp Ser
      50      55      60
Met Thr Met Met Asp Met Ser Gly His Asp Gln Ala Ala Met Ser His
65      70      75      80
Glu Met Met Gln Asn Gly Asn Ala Ser Ala His Gln Asp Met Ala Glu
      85      90      95
Met His Lys Lys Met Met Lys Gly Lys Pro Gly Ala Thr Asn Glu Ser
      100     105     110
Ala Thr Ser Phe Ser Glu Met Asn Glu His Glu Lys Ala Ala Val Val
      115     120     125
His Glu Lys Ala Asn Asn Gly Gln Ser Ser Val Ile His Gln Gln Gln
130     135     140
Ala Glu Lys His Arg Ser Gln Ile Thr Gln Asn
145     150     155

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<210> 7324

<211> 195

<212> PRT

<213> Enterobacter cloacae

<400> 7324

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Leu Val Lys Ile Leu Pro Val Asn Arg Leu Val Asp Thr Cys Leu Tyr
1      5      10      15
Ser Thr Asn Ser Gly Glu Met Met Phe Phe Phe Thr Lys Leu Leu Leu
      20      25      30
Pro Ile Met Ile Val Val Phe Pro Val Ala Ser Trp Gly Asn Ser Thr
      35      40      45
Thr Phe Glu Ala Lys Val Val Lys Ile Val Asp Gly Asp Thr Ile Thr
      50      55      60
Ala Leu Asp Ala Gln Asn Thr Thr Ile Lys Ile Arg Met Tyr Gly Ile
65      70      75      80
Asp Ala Pro Glu Ser Lys Gln Ala Phe Gly Gln Lys Ala Lys Gln Ala
      85      90      95
Leu Thr Thr Ala Ile Ala Thr Lys Ile Val Thr Val Ile Asp His Gly
      100     105     110
Thr Asp Ile Tyr Gly Arg Met Leu Gly Thr Ile Trp Leu Asp Gly Tyr
      115     120     125
Asp Ile Asn Ala Ser Met Val Asp Ser Gly Tyr Ala Trp Val Tyr Arg
130     135     140
Phe Glu Asp Asn Ala Ile Val Pro Gly Tyr Ile Lys Tyr Glu Ser Ala
145     150     155     160
Ala Gln Lys Glu Ala Lys Gly Leu Trp Ala Asp Thr Asn Pro Val Pro
      165     170     175
Pro Trp Gln Trp Arg Gln Ala Asn Glu Lys Pro Arg Lys Val Lys Gly
180     185     190
Lys Lys
      195

```

<210> 7325

<211> 512

<212> PRT

<213> Enterobacter cloacae

<400> 7325

Ser Glu Cys His Val His Ala Pro Thr Gly Asn Gly Val Thr Leu Asn
 1 5 10 15
 Thr Ser Gln Val Ser Tyr Tyr Met Thr Gln Arg Lys Lys Gly Ala Thr
 20 25 30
 Gln His Ile Ser Ala Met Lys Ala Gly Ile Ser Val Arg Ser Gly Arg
 35 40 45
 Arg Ile Glu Lys Asp Gln Trp Ser Lys Ala Gly Glu Arg His Trp Arg
 50 55 60
 Thr Arg Lys Asp Pro Leu Glu Ala Val Trp Asp Ser Glu Leu Val Pro
 65 70 75 80
 Leu Leu Lys Glu Arg Pro Ala Leu Met Pro Thr Thr Leu Leu Glu Met
 85 90 95
 Leu Gln Asp Lys Tyr Pro Gly Gln Tyr Pro Asn Asn Leu Arg Arg Thr
 100 105 110
 Met Gln Arg Arg Val Arg Glu Trp Lys Leu Gln Tyr Gly Ala Glu Gln
 115 120 125
 Glu Val Met Phe Arg Gln Arg His Gln Pro Gly Leu Arg Gly Leu Ser
 130 135 140
 Asp Phe Thr Glu Leu Lys Gly Val Val Val Thr Ile Ala Gly Lys Leu
 145 150 155 160
 Leu Ala His Lys Leu Tyr His Phe Arg Leu Glu Trp Ser His Trp Ser
 165 170 175
 Trp Met Arg Val Val Leu Gly Gly Glu Ser Phe Ser Ala Leu Ala Glu
 180 185 190
 Gly Leu Gln Glu Ala Leu Gly Gln Leu Gly Gly Val Pro Ser Glu His
 195 200 205
 Lys Thr Asp Ser Leu Arg Ala Trp Lys His Arg Gly Glu Asp Gly
 210 215 220
 Gln Arg Glu Leu Thr Glu Arg Tyr Ala Glu Leu Cys Arg His Tyr Gly
 225 230 235 240
 Met Gln Gly Val His Asn Asn Ala Gly Arg Gly His Glu Asn Gly Ser
 245 250 255
 Val Glu Ser Ala His Gly His Leu Lys Arg Arg Ile Arg Gln Ala Leu
 260 265 270
 Ile Leu Arg Gly Ser Asn Asp Phe Ser Thr Leu Glu Glu Tyr Gln Ala
 275 280 285
 Phe Ile Thr Gln Gln Val Met Arg His Asn Arg Asn Asn Gln Asp Leu
 290 295 300
 Val Lys Glu Glu Gln Pro His Leu Lys Pro Leu Pro Leu Arg Arg Ser
 305 310 315 320
 Ala Asp Tyr Asp Glu Leu Thr Val Arg Val Ser Ser Ser Thr Ile
 325 330 335
 Asn Val Arg His Val Ile Tyr Ser Val Pro Ser Arg Leu Val Gly Gln
 340 345 350
 Leu Leu Arg Val Arg Leu Trp Asp Arg Leu Ser Cys Tyr Val Gly
 355 360 365
 Ser Asn Glu Val Met Asn Cys Pro Arg Val Arg Pro Glu Lys Gly Lys
 370 375 380
 Thr Arg Ala Arg Arg Ile Asp Phe Arg His Val Ile Asp Ser Leu Ala
 385 390 395 400
 Lys Lys Pro Gly Ala Phe Cys His Ala Thr Leu Arg Asn Asp Ile Leu
 405 410 415
 Pro Asp Asp Glu Trp Arg Lys Leu Trp Arg Arg Leu Cys Asn His Leu
 420 425 430
 Glu Pro Glu Met Ala Gly Arg Leu Met Val His Ala Leu Lys Leu Ala
 435 440 445
 Ala Gly Tyr Asp Asp Ile Ser Val Val Ala Arg Gly Met Glu Gln Met
 450 455 460
 Leu Asn Thr Pro Gly Glu Leu Asp Leu Asn Arg Leu Met Arg Phe Leu
 465 470 475 480

Gly Ile Lys Glu Lys Glu Leu Pro Pro Val Ser Val Val Gln His Asn
 485 490 495
 Leu Ser Ser Tyr Glu Gln Leu Leu Arg Gly Lys Gly Gly Leu Gln
 500 505 510

<210> 7326

<211> 367

<212> PRT

<213> Enterobacter cloacae

<400> 7326

Trp Asn Gly Arg Leu Pro Ser Leu Val Pro Gln Trp Asp Asp Lys Ser
 1 5 10 15
 Ser Leu Ile Glu Arg Ser Ala Ala Ile Met Asn Val Lys Thr Ile Gly
 20 25 30
 Ile Asp Leu Ala Lys Asn Val Phe Gln Ile His Gly Val Asp Glu His
 35 40 45
 Gly Lys Arg Leu Phe Asn Lys Gln Leu Arg Arg Ala Gln Met Ala Ser
 50 55 60
 Phe Phe Ala Asn Ile Pro Pro Cys Leu Ile Gly Met Glu Ala Cys Ala
 65 70 75 80
 Ser Ala His Phe Trp Ala Asn Lys Leu Ile Ser Met Gly His Asn Val
 85 90 95
 Lys Leu Met Ala Pro Gln Phe Val Lys Pro Tyr Val Lys Thr Asn Lys
 100 105 110
 His Asp Ala Ala Asp Ala Glu Ala Ile Cys Glu Ala Val Thr Arg Pro
 115 120 125
 Asn Met Arg Phe Val Pro Val Lys Thr Ala Glu Gln Gln Ala Val Leu
 130 135 140
 Ala Leu His Arg Ser Arg Gln Ser Phe Ile Lys Gln Arg Thr Ala Gln
 145 150 155 160
 Ala Asn Gln Ile Arg Gly Leu Leu Ala Glu Phe Gly Ile Val Val Pro
 165 170 175
 Arg Gly Ile Gln Gln Leu Gln Arg Arg Leu Pro Glu Leu Val Glu Asp
 180 185 190
 Ala Asp Asn Pro Leu Pro Val Leu Phe Arg Thr Gln Leu Ser Leu Leu
 195 200 205
 Gln His His Met Ala Tyr Leu Phe Asp Val Ile Ala Thr Leu Asp Lys
 210 215 220
 Gln Ile Glu Gln Cys Tyr Arg Gln Asn Ala Leu Cys Gln Arg Ile Gly
 225 230 235 240
 Lys Ile Pro Gly Ile Gly Pro Val Thr Ala Ser Ala Leu Ile Ala Thr
 245 250 255
 Ile Gly Lys Ala Asn Asn Phe Glu Asn Gly Arg Gln Leu Ala Ala Trp
 260 265 270
 Leu Gly Leu Val Pro Arg Gln His Ser Ser Gly Gly Lys Gln Val Leu
 275 280 285
 Leu Gly Ile Ser Lys Arg Gly Asp Thr Tyr Leu Arg Thr Leu Leu Ile
 290 295 300
 His Gly Ala Arg Ala Val Leu Gln Ser Ala Lys His Lys Gln Asp Ala
 305 310 315 320
 Val Ser Ser Trp Ala Asn Gln Leu Met Ala Arg Arg Asn Asn Asn Ile
 325 330 335
 Ala Ser Val Ala Leu Ala Asn Lys Asn Ala Arg Thr Val Trp Ala Leu
 340 345 350
 Leu Ala Lys Glu Arg Glu Tyr Cys Ala Pro Ile Ile Ser Ala
 355 360 365

<210> 7327

<211> 330

<212> PRT

<213> Enterobacter cloacae

<400> 7327

```

Ile Asn Arg Thr Phe Ala Glu Leu Lys Asp Gln Ile Thr His Leu Pro
1      5      10      15
Asp Asn Ala Asp Arg Ser Val Ala Lys Gln Lys Phe Lys Ile Thr Asn
20     25     30
Trp Pro Thr Tyr Asn Lys Ala Leu Ile Asn Arg Gly Ser Ile Thr Phe
35     40     45
Trp Leu Asp Asp Glu Ala Ile Gln Ala Trp Tyr Glu Ser Ala Thr Pro
50     55     60
Ser Ser Arg Gly Arg Pro Gln Arg Tyr Ser Asp Leu Ala Ile Thr Thr
65     70     75     80
Val Leu Val Ile Lys Arg Val Phe Arg Leu Thr Leu Arg Ala Ala Gln
85     90     95
Gly Phe Ile Asp Ser Ile Phe Ser Leu Met Asn Val Pro Leu Arg Cys
100    105    110
Pro Asp Tyr Ser Cys Val Ser Arg Arg Ala Lys Ser Val Asn Val Ser
115    120    125
Phe Lys Thr Pro Thr Arg Gly Glu Ile Ala His Leu Val Ile Asp Ser
130    135    140
Thr Gly Leu Lys Val Phe Gly Glu Gly Glu Trp Lys Val Lys Lys His
145    150    155    160
Gly Gln Glu Arg Arg Arg Ile Trp Arg Lys Leu His Leu Ala Val Asp
165    170    175
Ser Asn Thr His Glu Ile Ile Cys Ala Asp Leu Ser Leu Asn Asn Val
180    185    190
Thr Asp Ser Glu Ala Phe Pro Gly Leu Ile Arg Gln Thr His Arg Lys
195    200    205
Ile Arg Ser Ala Ala Ala Asp Gly Ala Tyr Asp Thr Arg Leu Cys His
210    215    220
Asp Glu Leu Arg Arg Lys Lys Ile Ser Ala Leu Ile Pro Pro Arg Lys
225    230    235    240
Gly Ala Gly Tyr Trp Pro Gly Glu Tyr Ala Asp Arg Asn Arg Ala Val
245    250    255
Ala Asn Gln Arg Met Thr Gly Ser Asn Ala Arg Trp Lys Trp Thr Thr
260    265    270
Asp Tyr Asn Arg Arg Ser Ile Ala Glu Thr Ala Met Tyr Arg Val Lys
275    280    285
Gln Leu Phe Gly Gly Ser Leu Thr Leu Arg Asp Tyr Asp Gly Gln Val
290    295    300
Ala Glu Ala Met Ala Leu Val Arg Ala Leu Asn Lys Met Thr Lys Ala
305    310    315    320
Gly Met Pro Glu Ser Val Arg Ile Ala
325                                330

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<210> 7328

<211> 494

<212> PRT

<213> Enterobacter cloacae

<400> 7328

```

Ser Lys Leu Ser Val Leu Ile Tyr Leu Lys Asp Ile Ile Pro Glu Arg
1      5      10      15
Val Trp Met Lys Arg Tyr Thr His Asp Leu Glu Thr Asp Leu Asn Asp
20     25     30
Val Asp Lys Thr Pro Ser Leu Ile His Lys Thr Leu Leu Thr Ala Ser
35     40     45
Thr Ile Tyr Asp Leu Lys Tyr Leu Ala Gln Val Leu Asn Asp Glu Asn
50     55     60
Gly Ser Asn Trp Ser Arg Ala Ser Leu Lys Arg Gln Val Thr Cys Ile

```


65					70					75				80	
Pro	Glu	His	Cys	Asp	Leu	Ser	Ile	Ala	Asp	Gly	Arg	Tyr	Leu	Gln	Thr
				85					90					95	
Leu	Ile	Pro	Ser	Arg	Pro	Ala	Asp	Tyr	Glu	Asp	Arg	His	Phe	Ser	Phe
			100					105					110		
Ile	Asp	Leu	Phe	Ala	Gly	Ile	Gly	Gly	Leu	Arg	Ser	Gly	Phe	Asp	Ala
		115					120					125			
Ile	Gly	Gly	Lys	Cys	Leu	Phe	Thr	Ser	Glu	Trp	Asn	Thr	Tyr	Ser	Ser
	130					135					140				
Arg	Thr	Tyr	Arg	Ala	Asn	Trp	Tyr	Cys	Asp	Glu	Asn	Glu	His	Arg	Phe
145					150					155					160
Asn	Ser	Asp	Ile	Arg	Asp	Ile	Thr	Leu	Ser	Asn	Arg	Pro	Glu	Val	Thr
				165					170					175	
Asp	Asp	Glu	Ala	Tyr	Lys	Phe	Ile	Asp	Ala	Ser	Ile	Pro	Asp	His	Asp
			180					185					190		
Val	Leu	Leu	Ala	Gly	Phe	Pro	Cys	Gln	Pro	Phe	Ser	Ile	Ala	Gly	Val
	195						200					205			
Ser	Lys	Lys	Asn	Ser	Met	Gly	Arg	Lys	His	Gly	Phe	Glu	Cys	Asp	Thr
	210					215					220				
Gln	Gly	Thr	Leu	Phe	Phe	Asp	Val	Ala	Arg	Ile	Arg	Ala	Lys	Gln	
225					230					235				240	
Pro	Ala	Ile	Phe	Val	Leu	Glu	Asn	Val	Lys	Asn	Leu	Lys	Ser	His	Asp
				245					250					255	
Lys	Gly	Asn	Thr	Phe	Asn	Ile	Ile	Met	Lys	Thr	Leu	Asp	Glu	Leu	Gly
			260					265					270		
Tyr	Asp	Val	Ala	Asn	Ser	Glu	Ser	Thr	Gly	Ala	Asp	Asp	Pro	Lys	Val
	275						280					285			
Ile	Asp	Gly	Arg	His	Phe	Arg	Pro	Gln	His	Arg	Glu	Arg	Ile	Val	Leu
	290					295					300				
Ile	Gly	Phe	Arg	Arg	Asp	Leu	Arg	Leu	Lys	Asp	Gly	Phe	Thr	Leu	Arg
305					310					315					320
Asp	Ile	Lys	Asp	Phe	Tyr	Pro	Asp	Lys	Arg	Pro	Ser	Leu	Ser	Asp	Leu
				325				330						335	
Leu	Asp	Pro	Ser	Val	Asp	Ser	Lys	Tyr	Ile	Leu	Ser	Pro	Lys	Leu	Trp
			340					345					350		
Glu	Tyr	Leu	Tyr	Asn	Tyr	Ala	Lys	Lys	His	Ala	Ala	Lys	Gly	Asn	Gly
	355						360					365			
Phe	Gly	Phe	Gly	Leu	Val	Asp	Pro	Ser	Asn	Val	Asn	Ser	Val	Thr	Arg
	370					375				380					
Thr	Leu	Ser	Ser	Arg	Tyr	Met	Lys	Asp	Gly	Ser	Glu	Ile	Leu	Ile	Asp
385					390					395					400
Arg	Gly	Trp	Ser	His	Glu	Leu	Gly	Glu	Thr	Asp	Phe	His	Asn	Thr	Tyr
				405					410					415	
Asn	Met	Asp	Arg	Arg	Pro	Arg	Met	Leu	Thr	Pro	Arg	Glu	Cys	Ser	Arg
			420					425					430		
Leu	Met	Gly	Phe	Asp	Lys	Pro	Gly	Glu	Ser	Val	Phe	Arg	Ile	Pro	Val
	435						440					445			
Ser	Asn	Thr	Gln	Ala	Tyr	Arg	Gln	Phe	Gly	Asn	Ser	Val	Val	Val	Asp
	450					455					460				
Val	Phe	Ala	Ala	Val	Ala	Lys	Leu	Leu	Lys	Ser	Arg	Ile	Glu	Phe	Ala
465					470					475					480
Ala	Ser	Gln	Arg	Leu	Arg	Gln	Phe	Tyr	Asp	Glu	Val	Ser			
				485					490						

<210> 7329

<211> 262

<212> PRT

<213> Enterobacter cloacae

<400> 7329

Ala Val Ala Ala Trp Lys Arg Arg Ser Ala Val Ser Asn Ile His His

```

1           5           10           15
Leu Glu Arg Ser Leu Arg Lys Leu Arg Leu Thr Arg Val Gly Ala Glu
20           25           30
Trp His Ala Leu Glu Lys Arg Ala Leu Ala Glu Gly Trp Thr Pro Ser
35           40           45
Arg Tyr Leu Leu Thr Leu Cys Asn Glu Glu Leu Leu Trp Arg Glu Ser
50           55           60
Glu Lys Leu Arg Arg Tyr Lys Lys Glu Ala Arg Leu Pro Val Ala Lys
65           70           75           80
Thr Leu Gly Glu Tyr Asp Phe Ala Gln Val Pro Glu Leu Asn Ala Ala
85           90           95
Gln Phe Arg Gln Leu Cys Glu Thr Thr Asp Trp Val Asp Ala Gly Glu
100          105          110
Asn Val Leu Leu Phe Gly Ala Ser Gly Leu Gly Lys Ser His Leu Ala
115          120          125
Ala Ala Ile Val Asp Gly Val Val Gly Gln Gly Tyr Arg Ala Arg Phe
130          135          140
Tyr Ser Ala Gly Glu Leu Leu Gln Glu Leu Arg Lys Ala Arg Ala Gln
145          150          155          160
Leu Lys Leu Asn Glu Leu Leu Leu Lys Leu Asp Arg Tyr Arg Val Ile
165          170          175
Val Val Asp Asp Leu Gly Tyr Val Lys Arg Asp Asn Ala Glu Thr Gly
180          185          190
Val Leu Phe Glu Leu Ile Ala His Arg Tyr Glu Arg Gly Ser Leu Val
195          200          205
Ile Thr Ser Asn His Pro Phe Ser Thr Trp Gly Ser Ile Phe Val Asp
210          215          220
Glu Thr Met Ala Val Ala Ala Ala Asp Arg Leu Ile His His Gly Tyr
225          230          235          240
Met Phe Glu Leu Lys Gly Glu Ser Tyr Arg Lys Lys Thr Ala Lys Ala
245          250          255
Val Thr Ser Ala Thr
260

```

<210> 7330

<211> 377

<212> PRT

<213> Enterobacter cloacae

<400> 7330

```

Pro Arg Met Ile Leu Met Asn Glu Phe Thr Thr Leu Leu Gln Gln Gly
1           5           10           15
Asn Ala Trp Phe Phe Ile Pro Ser Ala Ile Leu Leu Gly Ala Leu His
20           25           30
Gly Leu Glu Pro Gly His Ser Lys Thr Met Met Ala Ala Phe Ile Ile
35           40           45
Ala Ile Lys Gly Thr Val Arg Gln Ala Val Met Leu Gly Val Ala Ala
50           55           60
Thr Leu Ser His Thr Ala Val Val Trp Leu Ile Ala Phe Gly Gly Met
65           70           75           80
Tyr Ile Ser Asn Lys Phe Thr Ala Glu Ser Ala Glu Pro Trp Leu Gln
85           90           95
Met Val Ser Ser Val Ile Ile Leu Gly Thr Ala Phe Trp Met Phe Trp
100          105          110
Arg Thr Trp Ser Gly Glu Lys Asn Trp Leu Glu Gly Met Gln Glu Asn
115          120          125
Glu His His His His Asp Glu Thr Arg Leu Ile Asp Thr Gly His Gly
130          135          140
Lys Val Glu Leu Ser Ile Phe Glu Glu Gly Gln Leu Pro His Trp Arg
145          150          155          160
Leu Arg Thr Leu Ser Gly Gln Arg Trp Ala Ser Glu Asp Ile Ser Leu

```

```
<210> 7331
<211> 342
<212> PRT
<213> Enterobacter cloacae
```

Asn 1	Ser	Cys	Ala	Val 5	Asp	Gln	Arg	Val	Tyr 10	Leu	Lys	Lys	Gly	Leu 15	
Met	Leu	Leu	Ala 20	Thr	Ala	Leu	Leu	Ile 25	Ile	Gly	Leu	Leu	Leu	Val	Val
Tyr	Ser	Ala 35	Asp	Arg	Leu	Val	Phe 40	Ala	Ala	Ser	Ile	Leu 45	Cys	Arg	Leu
Ile	Gly 50	Met	Pro	Pro	Ile	Ile 55	Ile	Gly	Met	Thr	Val 60	Val	Ser	Val	Gly
Thr 65	Ser	Leu	Pro	Glu 70	Ile	Ile	Val	Ser	Val	Ser 75	Ala	Ser	Leu	His	Gly 80
Gln	Val	Asp	Leu 85	Ala	Ile	Gly	Thr	Ala 90	Ile	Gly	Ser	Asn	Ile 95	Val	Asn
Ile	Leu	Leu 100	Ile	Leu	Gly	Leu	Ala 105	Ala	Leu	Leu	His	Pro	Phe 110	Arg	Val
His	Ser	Asp 115	Val	Leu	Arg	Arg	Glu 120	Leu	Pro	Leu	Met	Leu 125	Val	Val	Ser
Leu	Leu 130	Ala	Gly	Tyr	Val	Leu 135	Tyr	Asp	Gly	Val	Leu 140	Ser	Val	Gly	Asp
Gly 145	Ile	Phe	Leu	Leu 150	Ala	Leu	Ala	Val	Ile	Trp 155	Leu	Leu	Tyr	Ser	Val
Lys	Ile	Ala	Arg 165	Leu	Ala	Glu	Lys	Gln 170	Gly	Asn	Asp	Ser	Leu 175	Thr	Arg
Glu	His	Leu 180	Ala	Glu	Leu	Pro	Arg	Glu 185	Gly	Thr	Leu	Pro	Val 190	Ala	Leu
Leu	Trp 195	Leu	Gly	Val	Ala	Leu	Ile 200	Ile	Met	Pro	Met	Ala 205	Thr	Arg	Met
Val	Val	Asp	Asn	Ala	Thr	Val	Leu	Ala	Asn	Ala	Phe	Ala	Met	Ser	Glu

```

      210                      215                      220
Leu Thr Ile Gly Leu Thr Val Ile Ala Ile Gly Thr Ser Leu Pro Glu
225                      230                      235                      240
Leu Ala Thr Ala Ile Ala Gly Ala Arg Lys Gly Glu Asp Asp Ile Ala
      245                      250                      255
Ile Gly Asn Ile Ile Gly Ser Asn Ile Phe Asn Ile Ala Ile Val Thr
      260                      265                      270
Gly Leu Pro Ala Leu Ile Ser Pro Gly Pro Phe Asn Pro Met Val Phe
      275                      280                      285
Thr Arg Asp Tyr Gly Val Met Leu Leu Val Ser Val Ile Phe Ala Leu
      290                      295                      300
Leu Cys Trp Arg Arg Lys Glu Gln Ile Gly Lys Gly Ala Gly Ala Leu
      305                      310                      315                      320
Leu Thr Gly Gly Phe Ile Val Trp Leu Ala Met Leu Tyr Trp Leu Ser
      325                      330                      335
Pro Leu Leu Ser Gly
      340

```

<210> 7332

<211> 202

<212> PRT

<213> Enterobacter cloacae

<400> 7332

```

Ser Ala Ala Arg Trp Arg Ser Val Met Lys Asp Lys Thr Met Ser Asn
1                      5                      10                      15
Ala Gly Ala Ser Leu Ala Thr Cys Tyr Gly Pro Val Ser Ala His Met
      20                      25                      30
Met Ser Lys Ala Glu Asn Ile Arg Leu Leu Ile Leu Asp Val Asp Gly
      35                      40                      45
Val Leu Ser Asp Gly Leu Ile Tyr Met Gly Asn Asn Gly Glu Glu Leu
      50                      55                      60
Lys Ala Phe Asn Val Arg Asp Gly Tyr Gly Ile Arg Cys Ala Leu Thr
      65                      70                      75                      80
Ser Gly Ile Glu Val Ala Ile Ile Thr Gly Arg Lys Ala Lys Leu Val
      85                      90                      95
Glu Asp Arg Cys Glu Thr Leu Gly Ile Thr His Leu Tyr Gln Gly Gln
      100                      105                      110
Ser Asp Lys Met Val Ala Phe Arg Asp Leu Leu Gly Lys Leu Ala Ile
      115                      120                      125
Ala Pro Glu Asn Val Ala Tyr Val Gly Asp Asp Leu Ile Asp Trp Pro
      130                      135                      140
Val Met Ala Glu Val Gly Leu Ser Ile Ala Val Ala Asp Ala His Pro
      145                      150                      155                      160
Leu Leu Ile Pro Arg Ala Asp Tyr Val Thr His Ile His Gly Gly Arg
      165                      170                      175
Gly Ala Val Arg Glu Val Cys Asp Leu Leu Leu Ala Gln Gly Lys
      180                      185                      190
Leu Asp Glu Ala Lys Gly Gln Ser Ile
      195                      200

```

<210> 7333

<211> 192

<212> PRT

<213> Enterobacter cloacae

<400> 7333

```

Leu Lys Arg Leu Glu Pro Pro Met Lys Phe Lys Thr Asn Lys Leu Ser
1                      5                      10                      15
Leu Lys Val Val Ile Ala Ser Ala Leu Leu Ala Ala Ser Leu Pro Ala
      20                      25                      30

```

Leu Ala Val Thr Gly Asp Thr Glu Gln Pro Ile His Ile Glu Ser Asp
 35 40 45
 Thr Gln Ser Leu Asp Met Gln Gly Asn Val Val Thr Phe Thr Gly Asn
 50 55 60
 Val Val Val Thr Gln Gly Thr Ile Lys Ile Asn Ala Asp Lys Val Val
 65 70 75 80
 Val Thr Arg Pro Gly Gly Glu Gln Gly Lys Glu Ile Ile Asp Gly Tyr
 85 90 95
 Gly Asn Pro Ala Thr Phe Tyr Gln Met Gln Asp Asn Gly Lys Pro Val
 100 105 110
 Lys Gly His Ala Ser His Met His Tyr Glu Leu Ala Lys Asp Leu Val
 115 120 125
 Ile Leu Thr Gly Asn Val Tyr Leu Glu Gln Leu Asp Ser Asn Ile Lys
 130 135 140
 Gly Asp Lys Ile Thr Tyr Leu Val Lys Glu Gln Lys Met Gln Ala Ser
 145 150 155 160
 Ser Glu Lys Gly Lys Arg Val Thr Thr Val Leu Val Pro Ser Gln Leu
 165 170 175
 Gln Asp Lys Asn Asn Gly Gln Ala Pro Ala Lys Lys Lys Ser Asn
 180 185 190

<210> 7334

<211> 244

<212> PRT

<213> Enterobacter cloacae

<400> 7334

Phe Val Met Ala Thr Leu Thr Ala Lys Asn Leu Ala Lys Ala Tyr Lys
 1 5 10 15
 Gly Arg Arg Val Val Glu Asp Val Ser Leu Thr Val Asn Ser Gly Glu
 20 25 30
 Ile Val Gly Leu Leu Gly Pro Asn Gly Ala Gly Lys Thr Thr Thr Phe
 35 40 45
 Tyr Met Val Val Gly Ile Val Pro Arg Asp Ala Gly Asn Ile Ile Ile
 50 55 60
 Asp Asp Glu Asp Ile Ser Leu Leu Pro Leu His Ala Arg Ala Arg Arg
 65 70 75 80
 Gly Ile Gly Tyr Leu Pro Gln Glu Ala Ser Ile Phe Arg Arg Leu Ser
 85 90 95
 Val Phe Asp Asn Leu Met Ala Val Leu Gln Ile Arg Asp Asp Leu Thr
 100 105 110
 Ser Glu Gln Arg Thr Asp Arg Ala Asn Glu Leu Met Glu Glu Phe His
 115 120 125
 Ile Glu His Leu Arg Asp Ser Leu Gly Gln Ala Leu Ser Gly Gly Glu
 130 135 140
 Arg Arg Arg Val Glu Ile Ala Arg Ala Leu Ala Asn Pro Lys Phe
 145 150 155 160
 Ile Leu Leu Asp Glu Pro Phe Ala Gly Val Asp Pro Ile Ser Val Ile
 165 170 175
 Asp Ile Lys Arg Ile Ile Glu His Leu Arg Asp Ser Gly Leu Gly Val
 180 185 190
 Leu Ile Thr Asp His Asn Val Arg Glu Thr Leu Ala Val Cys Glu Arg
 195 200 205
 Ala Tyr Ile Val Ser Gln Gly His Leu Ile Ala His Gly Thr Pro Gln
 210 215 220
 Gln Ile Leu Glu Asp Glu His Val Lys Arg Val Tyr Leu Gly Glu Asp
 225 230 235 240
 Phe Arg Leu

<210> 7335

<211> 139

<212> PRT

<213> *Enterobacter cloacae*

<400> 7335

```

Pro Pro Cys Cys Pro Ile Arg Val Leu Trp Trp His Val Val Leu Ser
1          5          10          15
Arg Ser Ile Glu Ser Leu Tyr Pro Phe Arg Arg Leu Thr Ser Val Asn
          20          25          30
Asn Trp Phe Asp Thr Thr Asp Lys Glu Asp Thr Met Gln Leu Asn Ile
          35          40          45
Thr Gly His Asn Val Glu Ile Thr Glu Ala Leu Arg Asp Phe Val Asn
          50          55          60
Thr Lys Phe Ala Lys Leu Glu Gln Tyr Phe Glu Arg Ile Asn Gln Val
65          70          75          80
Tyr Val Val Leu Lys Val Glu Lys Val Thr His Ile Ser Asp Ala Thr
          85          90          95
Leu His Val Asn Gly Gly Glu Leu His Ala Ser Ala Glu Gly Gln Asp
          100          105          110
Met Tyr Ala Ala Ile Asp Gly Leu Ile Asp Lys Leu Ala Arg Gln Leu
          115          120          125
Asn Lys His Lys Asp Lys Leu Lys Gln His
          130          135

```

<210> 7336

<211> 124

<212> PRT

<213> *Enterobacter cloacae*

<400> 7336

```

Thr Ser Phe Gly Leu His Cys Arg Thr Ala Gly Arg Leu Leu Pro Leu
1          5          10          15
Thr Arg Lys Glu Arg Ser Val Pro Ser Ser His Ala Gly Lys Thr Gln
          20          25          30
Asn Met Thr Val Lys Gln Thr Val Glu Ile Thr Asn Lys Leu Gly Met
          35          40          45
His Ala Arg Pro Ala Met Lys Leu Phe Glu Leu Met Gln Gly Phe Asp
          50          55          60
Ala Glu Val Leu Leu Arg Asn Asp Glu Gly Thr Glu Ala Glu Ala Asn
65          70          75          80
Ser Val Ile Ala Leu Leu Met Leu Asp Ser Ala Lys Gly Arg Gln Ile
          85          90          95
Glu Val Glu Ala Thr Gly Pro Gln Glu Glu Glu Ala Leu Ala Ala Val
          100          105          110
Ile Ala Leu Phe Asn Ala Gly Phe Asp Glu Asp
          115          120

```

<210> 7337

<211> 297

<212> PRT

<213> *Enterobacter cloacae*

<400> 7337

```

Arg Arg Trp Pro Arg Ile Arg Pro Ala Pro Trp Val Lys Thr Gly Gly
1          5          10          15
Gly Lys Arg Ile Arg Pro Met Ile Ala Ile Leu Ala Ala Arg Ala Val
          20          25          30
Gly Tyr Gln Gly Asn Ala His Val Thr Ile Ala Ala Leu Ile Glu Phe
          35          40          45
Ile His Thr Ala Thr Leu Leu His Asp Asp Val Val Asp Glu Ser Asp
          50          55          60

```

Met Arg Arg Gly Lys Ala Thr Ala Asn Ala Ala Phe Gly Asn Ala Ala
 65 70 75 80
 Ser Val Leu Val Gly Asp Phe Ile Tyr Thr Arg Ala Phe Gln Met Met
 85 90 95
 Thr Ser Leu Gly Ser Leu Lys Val Leu Glu Val Met Ser Glu Ala Val
 100 105 110
 Asn Val Ile Ala Glu Gly Glu Val Leu Gln Leu Met Asn Val Asn Asp
 115 120 125
 Pro Asp Ile Thr Glu Glu Asn Tyr Met Arg Val Ile Tyr Ser Lys Thr
 130 135 140
 Ala Arg Leu Phe Glu Ala Ala Ala Gln Cys Ser Gly Ile Leu Ala Gly
 145 150 155 160
 Cys Ser Glu Ala Glu Glu Lys Gly Leu Gln Asp Tyr Gly Arg Tyr Leu
 165 170 175
 Gly Thr Ala Phe Gln Leu Ile Asp Asp Leu Leu Asp Tyr Ser Ala Asp
 180 185 190
 Gly Glu Thr Leu Gly Lys Asn Val Gly Asp Asp Leu Asn Glu Gly Lys
 195 200 205
 Pro Thr Leu Pro Leu Leu His Ala Met Arg Asn Gly Thr Pro Glu Gln
 210 215 220
 Ala Lys Met Ile Arg Glu Ala Ile Glu Gln Gly Asn Gly Arg His Leu
 225 230 235 240
 Leu Glu Pro Val Leu Glu Thr Met Ala Ile Cys Gly Ser Leu Glu Trp
 245 250 255
 Thr Arg Gln Arg Ala Glu Glu Glu Ala Asp Lys Ala Ile Ala Ala Ile
 260 265 270
 Gln Val Ile Pro Asp Ser Pro Trp Arg Asp Ala Leu Ile Gly Leu Ala
 275 280 285
 His Ile Ala Val Gln Arg Asp Arg
 290 295

<210> 7338

<211> 114

<212> PRT

<213> Enterobacter cloacae

<400> 7338

Cys Cys Leu Phe Thr Arg Asn Asp Val Asp Asp Asn Glu His Lys Asp
 1 5 10 15
 Ser Ile Met Asp Thr Lys Phe Ile Asp Trp His Ser Ala Asp Ile Ile
 20 25 30
 Ala Ala Leu Arg Lys Lys Gly Thr Ser Leu Ala Ala Glu Ser Arg Arg
 35 40 45
 His Gly Leu Ser Ser Ser Thr Leu Ala Asn Ala Leu Thr Arg Pro Trp
 50 55 60
 Pro Lys Gly Glu Leu Ile Ala Thr Ala Leu Asp Thr His Pro Trp
 65 70 75 80
 Val Ile Trp Pro Ser Arg Tyr His Asp Pro Ile Thr His Glu Phe Ile
 85 90 95
 Asp Arg Thr Arg Met Met Arg Gln Ser Lys Thr Lys Lys Ala His Gln
 100 105 110
 Asp

<210> 7339

<211> 354

<212> PRT

<213> Enterobacter cloacae

<400> 7339

Arg Val Asp Leu Ser Tyr Gly Trp Arg Cys Cys Thr Gly Ser Arg His

```

1           5           10           15
Phe Ser Leu Gly Lys Arg Lys Arg Ile Met Ser Gln Ile Glu Leu Gln
20           25           30
Pro Gly Phe Asp Phe Gln Lys Ala Gly Lys Asp Val Leu Glu Ile Glu
35           40           45
Arg Glu Gly Leu Ala Gln Leu Asp Gln Tyr Ile Asn Gln Asp Phe Ser
50           55           60
Leu Ala Cys Glu Lys Met Phe Tyr Cys Ala Gly Lys Val Val Val Met
65           70           75           80
Gly Met Gly Lys Ser Gly His Ile Gly Arg Lys Met Ala Ala Thr Phe
85           90           95
Ala Ser Thr Gly Thr Ser Ser Phe Phe Val His Pro Gly Glu Ala Ala
100          105          110
His Gly Asp Leu Gly Met Val Thr Pro Gln Asp Val Val Ile Ala Leu
115          120          125
Ser Asn Ser Gly Glu Ser Asn Glu Ile Leu Ala Leu Ile Pro Val Leu
130          135          140
Lys Arg Leu His Val Pro Leu Ile Cys Met Thr Ser Arg Pro Glu Ser
145          150          155          160
Ser Met Ala Arg Ala Ala Asp Ile His Leu Cys Val Lys Val Pro Lys
165          170          175
Glu Ala Cys Pro Leu Gly Leu Ala Pro Thr Ser Ser Thr Thr Ala Ala
180          185          190
Leu Val Met Gly Asp Ala Leu Ala Val Ala Leu Leu Glu Ala Arg Gly
195          200          205
Phe Thr Pro Glu Asp Phe Ala Leu Ser His Pro Gly Gly Ala Leu Gly
210          215          220
Arg Lys Leu Leu Leu Arg Val Asn Asp Ile Met His Thr Gly Asp Glu
225          230          235          240
Ile Pro His Val Ser Lys Glu Ala Ser Leu Arg Asp Ala Leu Leu Glu
245          250          255
Ile Thr Arg Lys Asn Leu Gly Met Thr Val Ile Cys Asp Asp Leu Met
260          265          270
Lys Ile Gln Gly Ile Phe Thr Asp Gly Asp Leu Arg Arg Val Phe Asp
275          280          285
Met Gly Val Asp Val Arg Thr Leu Gly Ile Ala Asp Val Met Thr Pro
290          295          300
Gly Gly Ile Arg Val Arg Pro Gly Thr Leu Ala Val Asp Val Leu Asn
305          310          315          320
Leu Met Gln Ser Arg His Ile Thr Ser Val Met Val Ala Asp Gly Asp
325          330          335
Gln Leu Leu Gly Val Val His Met His Asp Leu Leu Arg Ala Gly Val
340          345          350
Val

```

<210> 7340

<211> 169

<212> PRT

<213> Enterobacter cloacae

<400> 7340

```

Arg Leu Gly Glu Ile Met Ile Asn Asn Asp Ser Ala Leu Gln Leu Ser
1           5           10           15
Asn Val Leu Asn Gln Asp Cys Thr Arg Ser Gly Val His Cys Gln Ser
20           25           30
Lys Lys Arg Ala Leu Glu Ile Ile Ser Glu Leu Ala Ala Lys Gln Leu
35           40           45
Gly Leu Pro Pro Gln Ile Val Phe Glu Ala Ile Leu Thr Arg Glu Lys
50           55           60
Met Gly Ser Thr Gly Ile Gly Asn Gly Ile Ala Ile Pro His Gly Lys

```


65					70					75				80	
Leu	Glu	Glu	Asp	Thr	Leu	Arg	Ala	Val	Gly	Val	Phe	Val	Gln	Leu	Glu
				85					90					95	
Thr	Pro	Ile	Ala	Phe	Asp	Ala	Ile	Asp	Asn	Gln	Pro	Val	Asp	Leu	Leu
			100					105					110		
Phe	Ala	Leu	Leu	Val	Pro	Ala	Asp	Gln	Thr	Lys	Thr	His	Leu	His	Thr
		115					120					125			
Leu	Ser	Leu	Val	Ala	Lys	Arg	Leu	Ala	Asp	Lys	Thr	Ile	Cys	Arg	Arg
	130					135					140				
Leu	Arg	Ser	Ala	Gln	Ser	Asp	Glu	Glu	Leu	Tyr	Gln	Ile	Ile	Thr	Glu
145					150					155					160
Ala	Glu	Gly	Asn	Gln	Asp	Glu	Ala								
				165											

<210> 7341

<211> 300

<212> PRT

<213> Enterobacter cloacae

<400> 7341

Ser	Gly	Lys	Gly	Leu	Gln	Asn	Gly	Cys	Pro	Glu	Glu	Lys	Arg	Asn	Met
1				5				10						15	
Val	Leu	Met	Ile	Val	Ser	Gly	Arg	Ser	Gly	Ser	Gly	Lys	Ser	Val	Ala
			20					25					30		
Leu	Arg	Ala	Leu	Glu	Asp	Met	Gly	Phe	Tyr	Cys	Val	Asp	Asn	Leu	Pro
		35					40					45			
Val	Val	Leu	Leu	Pro	Asp	Leu	Ala	Arg	Thr	Leu	Ala	Asp	Arg	Gln	Ile
	50					55					60				
Ser	Ala	Ala	Val	Ser	Ile	Asp	Val	Arg	Asn	Met	Pro	Glu	Ser	Pro	Glu
65					70					75					80
Ile	Phe	Glu	Gln	Ala	Met	Asn	Ser	Leu	Pro	Glu	Cys	Phe	Ser	Pro	Gln
			85						90					95	
Leu	Leu	Phe	Leu	Asp	Ala	Asp	Arg	Asn	Thr	Leu	Ile	Arg	Arg	Tyr	Ser
			100					105					110		
Asp	Thr	Arg	Arg	Leu	His	Pro	Leu	Ser	Ser	Lys	Asn	Leu	Ser	Leu	Glu
		115					120					125			
Ser	Ala	Ile	Asp	Lys	Glu	Ser	Asp	Leu	Leu	Glu	Pro	Leu	Arg	Ser	Arg
	130					135					140				
Ala	Asp	Leu	Ile	Val	Asp	Thr	Ser	Glu	Met	Ser	Val	His	Glu	Leu	Ala
145					150					155					160
Glu	Met	Leu	Arg	Thr	Arg	Leu	Leu	Gly	Lys	Arg	Glu	Arg	Glu	Leu	Thr
				165					170					175	
Met	Val	Phe	Glu	Ser	Phe	Gly	Phe	Lys	His	Gly	Ile	Pro	Ile	Asp	Ala
		180						185					190		
Asp	Tyr	Val	Phe	Asp	Val	Arg	Phe	Leu	Pro	Asn	Pro	His	Trp	Asp	Pro
	195						200					205			
Lys	Leu	Arg	Pro	Met	Thr	Gly	Leu	Asp	Lys	Pro	Val	Ala	Ala	Phe	Leu
	210					215					220				
Asp	Arg	His	Thr	Glu	Val	His	Asn	Phe	Ile	Tyr	Gln	Thr	Arg	Ser	Tyr
225					230					235					240
Leu	Glu	Leu	Trp	Leu	Pro	Met	Leu	Glu	Thr	Asn	Asn	Arg	Ser	Tyr	Leu
				245						250				255	
Thr	Val	Ala	Ile	Gly	Cys	Thr	Gly	Gly	Lys	His	Arg	Ser	Val	Tyr	Ile
		260						265					270		
Ala	Glu	Gln	Leu	Ala	Asp	Tyr	Phe	Arg	Ser	Arg	Gly	Lys	Asn	Val	Gln
		275					280					285			
Ser	Arg	His	Arg	Thr	Leu	Glu	Lys	Arg	Lys	Thr					
	290					295					300				

<210> 7342

<211> 198

<212> PRT

<213> Enterobacter cloacae

<400> 7342

Gly Glu Arg Ala Ile Asp Met Ser Lys Thr Arg Arg Trp Val Ile Ile
 1 5 10 15
 Leu Leu Ala Leu Val Ala Leu Ile Leu Ile Gly Val Asn Leu Ala Asp
 20 25 30
 Arg Asp Asp Thr Gln Ala Glu Val Val Asn Thr Ser Asp Pro Thr Tyr
 35 40 45
 Lys Ser Asp His Ser Asp Thr Val Val Tyr Ser Pro Glu Gly Ala Leu
 50 55 60
 Asn Tyr Arg Leu Val Ala Gln His Val Glu Tyr Phe Ser Asp Asp Gly
 65 70 75 80
 Thr Ser Trp Phe Thr Gln Pro Val Leu Thr Thr Phe Asp Thr Asp Lys
 85 90 95
 Val Pro Thr Trp Ser Ile Lys Ser Asp Arg Ala Lys Leu Thr Asn Asp
 100 105 110
 Arg Met Leu Tyr Leu Tyr Gly His Val Glu Val Asn Ala Leu Thr Ala
 115 120 125
 Asp Ala Gln Leu Arg Lys Ile Thr Thr Asp Asn Ala Gln Ile Asn Leu
 130 135 140
 Val Thr Gln Asp Val Thr Ser Gln Asp Leu Val Thr Leu Tyr Gly Thr
 145 150 155 160
 Thr Phe Asn Ser Ser Gly Leu Arg Met Arg Gly Asn Leu Arg Ser Lys
 165 170 175
 Asn Ala Glu Leu Ile Glu Lys Val Arg Thr Ser Tyr Glu Ile Gln Asn
 180 185 190
 Lys Gln Thr Gln Pro
 195

<210> 7343

<211> 491

<212> PRT

<213> Enterobacter cloacae

<400> 7343

Arg Leu Ser His Ala Glu Pro Glu Lys Asn Ala Leu Asn Met Lys Gln
 1 5 10 15
 Gly Leu Gln Leu Arg Leu Ser Gln Gln Leu Ala Met Thr Pro Gln Leu
 20 25 30
 Gln Gln Ala Ile Arg Leu Leu Gln Leu Ser Thr Leu Glu Leu Gln Gln
 35 40 45
 Glu Leu Gln Gln Ala Leu Asp Ser Asn Pro Leu Leu Glu Gln Thr Asp
 50 55 60
 Leu His Asp Glu Val Asp Ala Gln Gln Thr Gln Asp Thr Glu Thr Leu
 65 70 75 80
 Asp Ser Val Asp Ala Leu Glu Gln Lys Glu Met Pro Asp Glu Leu Pro
 85 90 95
 Leu Asp Ala Ser Trp Asp Glu Ile Tyr Thr Ala Gly Thr Pro Ser Gly
 100 105 110
 Thr Arg Ala Asp Tyr Gln Asp Asp Glu Leu Pro Val Tyr Gln Gly Glu
 115 120 125
 Thr Thr Gln Ser Leu Gln Asp Tyr Leu Met Trp Gln Val Glu Leu Thr
 130 135 140
 Pro Phe Ser Asp Thr Asp Arg Ala Ile Ala Thr Ser Ile Val Asp Ala
 145 150 155 160
 Val Asp Asp Thr Gly Tyr Leu Thr Val Thr Leu Asp Glu Ile Leu Glu
 165 170 175
 Ser Ile Gly Asp Asp Glu Ile Glu Leu Glu Glu Ile Glu Ala Val Leu
 180 185 190

Lys Arg Val Gln Arg Phe Asp Pro Ile Gly Val Ala Ala Lys Asp Leu
 195 200 205
 Arg Asp Cys Leu Leu Ile Gln Leu Ser Gln Phe Ala Lys Glu Thr Pro
 210 215 220
 Trp Ile Asp Glu Ala Arg Leu Ile Ile Ser Asp His Leu Asp Leu Leu
 225 230 235 240
 Ala Asn His Asp Phe Arg Thr Leu Met Arg Val Thr Arg Leu Lys Glu
 245 250 255
 Glu Val Leu Lys Glu Ala Val Asn Leu Ile Gln Ser Leu Asp Pro Arg
 260 265 270
 Pro Gly Gln Ser Ile Gln Thr Ser Glu Pro Glu Tyr Val Ile Pro Asp
 275 280 285
 Val Leu Val Arg Lys His Asn Gly Arg Trp Val Val Glu Leu Asn Ala
 290 295 300
 Asp Ser Ile Pro Arg Leu Gln Ile Asn Gln Gln Tyr Ala Ser Met Cys
 305 310 315 320
 Thr Ser Ala Arg Asn Asp Ala Asp Asn Gln Tyr Ile Arg Ser Asn Leu
 325 330 335
 Gln Glu Ala Arg Trp Leu Ile Lys Ser Leu Glu Ser Arg Asn Asp Thr
 340 345 350
 Leu Leu Arg Val Ser Arg Cys Ile Val Glu Gln Gln Ala Phe Phe
 355 360 365
 Glu Gln Gly Glu Glu Phe Met Lys Pro Met Val Leu Ala Asp Ile Ala
 370 375 380
 Gln Ala Val Glu Met His Glu Ser Thr Ile Ser Arg Val Thr Thr Gln
 385 390 395 400
 Lys Tyr Leu His Ser Pro Arg Gly Ile Phe Glu Leu Lys Tyr Phe Phe
 405 410 415
 Ser Ser His Val Asn Thr Glu Gly Gly Gly Glu Ala Ser Ser Thr Ala
 420 425 430
 Ile Arg Ala Leu Val Lys Lys Leu Ile Ala Ala Glu Asn Pro Ala Lys
 435 440 445
 Pro Leu Ser Asp Ser Lys Leu Thr Thr Met Leu Ser Asp Gln Gly Ile
 450 455 460
 Met Val Ala Arg Arg Thr Val Ala Lys Tyr Arg Glu Ser Leu Ser Ile
 465 470 475 480
 Pro Pro Ser Asn Gln Arg Lys Gln Leu Val
 485 490

<210> 7344

<211> 277

<212> PRT

<213> Enterobacter cloacae

<400> 7344

Ile Asp Leu Ser Ala Asp Ser Gly Ser Ser Leu Met Lys Thr Pro Val
 1 5 10 15
 Met Gln Val Ala Leu Ser Val Met Lys Thr Ala Ile Pro Leu Val Leu
 20 25 30
 Leu Thr Met Ala Ile Gly Glu Trp Val Ala Pro Gln Gly Glu Gln Met
 35 40 45
 Ala Arg Asn Tyr Arg Ala Gln Ala Met Tyr Gly Gly Ser Leu Leu Ser
 50 55 60
 Thr Gln Gln Gly Leu Trp Ala Lys Asp Gly Gln Asn Phe Val Tyr Ile
 65 70 75 80
 Glu Arg Val Lys Gly Asp Asp Glu Leu Gly Gly Val Ser Ile Tyr Ala
 85 90 95
 Phe Asn Asn Asp Arg Arg Leu Gln Ser Val Arg Tyr Ala Ala Ser Ala
 100 105 110
 Lys Phe Asp Ala Asn Asn Lys Leu Trp Arg Leu Ser Gln Val Asp Glu
 115 120 125

Ser Asp Leu Thr Asn Pro Lys Gln Ile Thr Gly Ser Gln Thr Val Ser
 130 135 140
 Gly Thr Trp Lys Thr Asn Leu Thr Pro Asp Lys Leu Gly Val Val Ala
 145 150 155 160
 Leu Asp Pro Asp Ala Leu Ser Ile Ser Gly Leu His Asn Tyr Val Lys
 165 170 175
 Tyr Leu Lys Ser Ser Gly Gln Asp Ala Gly Arg Tyr Gln Leu Asn Met
 180 185 190
 Trp Ser Lys Ile Phe Gln Pro Leu Ser Val Ala Val Met Met Leu Met
 195 200 205
 Ala Leu Ser Phe Ile Phe Gly Pro Leu Arg Ser Val Pro Met Gly Val
 210 215 220
 Arg Val Val Thr Gly Ile Ser Phe Gly Phe Val Phe Tyr Val Leu Asp
 225 230 235 240
 Gln Ile Phe Gly Pro Leu Thr Leu Val Tyr Gly Ile Pro Pro Ile Ile
 245 250 255
 Gly Ala Leu Leu Pro Ser Ala Ser Phe Phe Leu Ile Ser Leu Trp Met
 260 265 270
 Leu Leu Lys Arg Ser
 275

<210> 7345

<211> 167

<212> PRT

<213> Enterobacter cloacae

<400> 7345

Lys Ile Lys Lys Ser Thr Ser Arg Pro Glu Trp Thr Met Cys Ser Ala
 1 5 10 15
 Ser Arg Trp Arg Tyr Leu Pro Leu Thr Ala Met Ile Lys Lys Phe Trp
 20 25 30
 Asp Thr Cys Asp Glu Glu Glu Ser Thr Met Thr Ser Val Asp Ser Ala
 35 40 45
 Lys Ala Gln Thr Ile Leu Asp Thr Ala Met Leu Glu Gln Tyr Ile Asp
 50 55 60
 Leu Val Gly Pro Lys Leu Ile Thr Asp Gly Leu Ala Val Phe Glu Lys
 65 70 75 80
 Met Met Pro Gly Tyr Leu Asn Val Leu Glu Ser Asn Leu Thr Ala Arg
 85 90 95
 Asp Gln Lys Gly Ile Val Glu Glu Gly His Lys Ile Lys Gly Ala Ala
 100 105 110
 Gly Ser Val Gly Leu Arg His Leu Gln Gln Leu Gly Gln Gln Ile Gln
 115 120 125
 Ser Pro Asp Leu Pro Ala Trp Glu Asp Asn Val Gly Asp Trp Val Glu
 130 135 140
 Glu Met Lys Gln Glu Trp Gln Asn Asp Val Ala Val Leu Lys Ala Trp
 145 150 155 160
 Val Asp Ala Arg Lys Lys
 165

<210> 7346

<211> 253

<212> PRT

<213> Enterobacter cloacae

<400> 7346

Lys Ala Gly Gly Gln Ser Ala Gly Ser Tyr Arg Met Ser Arg Lys Leu
 1 5 10 15
 Ser Pro Gly Gly Trp Leu Lys Arg Ile Leu Leu Arg Ile Val Leu Val
 20 25 30
 Leu Ala Val Phe Trp Gly Gly Gly Ile Ala Leu Phe Ser Ile Leu Pro

35	40	45
Val Pro Phe Ser Ala	Val Met Ala Glu Arg Gln	Ile Ser Ala Trp Leu
50	55	60
Ser Gly Asp Phe Gly Tyr	Val Ala His Ser Asp Trp	Val Gly Met Asp
65	70	75
Glu Ile Ser Pro Trp Met	Gly Leu Ala Val Ile Ala	Ala Glu Asp Gln
85	90	95
Lys Phe Pro Glu His Trp	Gly Phe Asp Val Ala Ala	Ile Glu Lys Ala
100	105	110
Leu Asp His Asn Glu Arg	His Glu Asn Arg Val Arg	Gly Ala Ser Thr
115	120	125
Leu Ser Gln Gln Thr Val	Lys Asn Leu Phe Leu Trp	Asp Gly Arg Ser
130	135	140
Trp Val Arg Lys Gly Leu	Glu Ala Gly Leu Thr Leu	Gly Val Glu Thr
145	150	155
Val Trp Ser Lys Lys Arg	Ile Leu Thr Val Tyr Leu	Asn Ile Ala Glu
165	170	175
Phe Gly Asp Gly Val Phe	Gly Val Glu Ala Ala Ser	Gln Arg Tyr Phe
180	185	190
Gly Lys Pro Ala Ser Arg	Leu Thr Met Ser Glu Ala	Ala Leu Leu Ala
195	200	205
Ala Val Leu Pro Asn Pro	Leu Arg Phe Lys Ala Ser	Thr Pro Ser Gly
210	215	220
Tyr Val Arg Ser Arg Gln	Ala Trp Ile Met Arg Gln	Met Arg Gln Leu
225	230	235
Gly Gly Glu Gly Phe Met	Glu Arg Asn Asn Leu Met	
245	250	

<210> 7347

<211> 266

<212> PRT

<213> Enterobacter cloacae

<400> 7347

Gly Val Lys Pro Leu Met	Leu Leu Asn Ala Leu Ala	Gly Leu Gly His
1	5	10
Arg Gly Leu Lys Thr Ile	Ser Thr Phe Gly Arg Ala	Gly Leu Met Leu
20	25	30
Phe Asn Ala Leu Val Gly	Lys Pro Glu Phe Arg Lys	His Ala Pro Leu
35	40	45
Leu Val Arg Gln Leu Tyr	Asn Val Gly Val Leu Ser	Met Leu Ile Ile
50	55	60
Ile Val Ser Gly Leu Phe	Ile Gly Met Val Leu Gly	Leu Gln Gly Tyr
65	70	75
Leu Val Leu Thr Thr Tyr	Ser Ala Glu Thr Ser Leu	Gly Met Leu Val
85	90	95
Ala Leu Ser Leu Leu Arg	Glu Leu Gly Pro Val Val	Ala Ala Leu Leu
100	105	110
Phe Ala Gly Arg Ala Gly	Ser Ala Leu Thr Ala Glu	Ile Gly Leu Met
115	120	125
Arg Ala Thr Glu Gln Leu	Ser Ser Met Glu Met Met	Ala Val Asp Pro
130	135	140
Leu Arg Arg Val Ile Ser	Pro Arg Phe Trp Ala Gly	Val Ile Ser Leu
145	150	155
Pro Leu Leu Thr Ile Leu	Phe Val Ala Val Gly Ile	Trp Gly Gly Ala
165	170	175
Leu Val Gly Val Asn Trp	Lys Gly Ile Asp Ala Gly	Phe Phe Trp Ser
180	185	190
Ala Met Gln Asp Ala Ile	Asp Leu Arg Met Asp Leu	Val Asn Cys Leu
195	200	205
Ile Lys Ser Val Val Phe	Ala Val Thr Val Thr Trp	Ile Ala Leu Phe

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<210> 7348
<211> 119
<212> PRT
<213> Enterobacter cloacae
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<210> 7349
<211> 127
<212> PRT
<213> Enterobacter cloacae
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```
<210> 7350
<211> 234
<212> PRT
<213> Enterobacter cloacae
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Ser Glu Phe Leu Met Cys Phe Ser Glu Leu Leu Arg Arg Ile Val Arg

```

1           5           10           15
Met Lys Lys Val Gly Val Val Leu Ser Gly Cys Gly Val Tyr Asp Gly
20           25           30
Ser Glu Ile His Glu Thr Val Leu Thr Leu Leu Ala Leu Ser Arg Gln
35           40           45
Gly Ala Asp Val Ile Cys Phe Ala Pro Asp Lys Thr Gln Ala Asp Val
50           55           60
Met Asn His Leu Thr Gly Glu Pro Met Ala Glu Ser Arg Asn Val Leu
65           70           75           80
Ile Glu Ala Ala Arg Ile Val Arg Gly Asp Ile His Pro Leu Ala Gln
85           90           95
Ala Asp Ala Ala Glu Leu Asp Ala Leu Ile Val Pro Gly Gly Phe Gly
100          105          110
Ala Ala Lys Asn Leu Ser Thr Phe Ala Thr Glu Gly Ala Ala Cys His
115          120          125
Val Asp Pro Asp Leu Lys Ala Leu Ser Leu Ala Met His Ala Ala Gly
130          135          140
Lys Pro Gln Gly Phe Ile Cys Ile Ala Pro Ala Met Leu Pro Lys Ile
145          150          155          160
Phe Asp Phe Pro Leu Arg Leu Thr Ile Gly Thr Asp Ile Asp Thr Ala
165          170          175
Glu Ile Ile Glu Asp Met Gly Gly Glu His Val Pro Cys Pro Val Asp
180          185          190
Asp Ile Val Val Asp Glu Asp Asn Lys Ile Ile Thr Thr Pro Ala Tyr
195          200          205
Met Leu Ala Gln Asn Ile Ala Glu Ala Ala Ala Gly Ile Glu Lys Leu
210          215          220
Val Asp Arg Val Leu Val Leu Thr Glu
225          230

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<210> 7351

<211> 189

<212> PRT

<213> Enterobacter cloacae

<400> 7351

```

Cys Leu Gly Ile Glu Phe Met Gln Thr Arg Lys Asn Glu Ile Trp Val
1           5           10           15
Gly Val Phe Leu Leu Leu Ala Leu Leu Ala Ala Leu Phe Ile Cys Leu
20           25           30
Arg Ala Ala Asp Ile Thr Ser Val Arg Ala Glu Pro Thr Tyr Arg Ile
35           40           45
Tyr Ala Thr Phe Asp Asn Ile Gly Gly Leu Lys Ala Arg Ser Pro Val
50           55           60
Arg Ile Gly Gly Val Val Ile Gly Arg Val Ala Asp Ile Thr Leu Asp
65           70           75           80
Glu Lys Thr Tyr Leu Pro Arg Val Ala Met Asp Ile Glu Glu Arg Tyr
85           90           95
Asn His Ile Pro Asp Thr Ser Ser Leu Ser Ile Arg Thr Ser Gly Leu
100          105          110
Leu Gly Glu Gln Tyr Leu Ala Leu Asn Val Gly Phe Glu Asp Pro Glu
115          120          125
Leu Gly Thr Thr Ile Leu Lys Asp Gly Ser Val Ile Gln Asp Thr Lys
130          135          140
Ser Ala Met Val Leu Glu Asp Met Ile Gly Gln Phe Leu Tyr Asn Ser
145          150          155          160
Lys Gly Asp Asp Lys Lys Ser Asp Asp Ala Pro Ala Gln Ser Glu Asp
165          170          175
His Thr Asn Val Glu Pro Thr Pro Gly Ala Thr Asn
180          185

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<210> 7352
 <211> 218
 <212> PRT
 <213> Enterobacter cloacae

<400> 7352

```

Phe Gln Glu Lys Leu Phe Met Phe Lys Arg Leu Leu Met Val Ala Met
1          5          10          15
Leu Val Ile Ala Pro Leu Thr Ala Ala His Ala Ala Asp Gln Ser Asn
20          25          30
Pro Tyr Lys Leu Met Asn Glu Ala Lys Lys Thr Phe Asp Arg Leu
35          40          45
Lys Asn Glu Gln Pro Lys Ile Arg Ser Asn Pro Asp Tyr Leu Arg Asp
50          55          60
Val Val Asp Gln Glu Leu Leu Pro Tyr Val Gln Ile Lys Tyr Ala Gly
65          70          75          80
Ala Leu Val Leu Gly Arg Tyr Tyr Lys Asp Ala Thr Pro Ala Gln Arg
85          90          95
Glu Ala Tyr Phe Ala Ala Phe Arg Glu Tyr Leu Lys Gln Ala Tyr Gly
100         105         110
Gln Ala Leu Ala Met Tyr His Gly Gln Thr Tyr Gln Ile Ala Pro Glu
115         120         125
Gln Pro Leu Gly Asp Ala Thr Ile Ile Pro Ile Arg Val Thr Ile Ile
130         135         140
Asp Pro Asn Gly Arg Pro Pro Val Arg Leu Asp Phe Gln Trp Arg Lys
145         150         155         160
Asn Ser Gln Thr Gly Asn Trp Gln Ala Tyr Asp Met Ile Ala Glu Gly
165         170         175
Val Ser Met Ile Thr Thr Lys Gln Asn Glu Trp Ser Asp Leu Leu Arg
180         185         190
Thr Lys Gly Ile Asp Gly Leu Thr Ala Gln Leu Gln Ser Ile Ser Arg
195         200         205
Gln Lys Ile Thr Leu Asp Glu Lys Lys
210         215

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<210> 7353
 <211> 659
 <212> PRT
 <213> Enterobacter cloacae

<400> 7353

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Val Leu Leu Ser Asp Lys Val Val Lys Gly Ser Ser Met Lys Gln Ile
1          5          10          15
Arg Met Leu Ala Gln Tyr Tyr Val Asp Leu Met Met Lys Leu Gly Leu
20          25          30
Val Arg Phe Ser Met Leu Leu Ala Leu Val Val Leu Ala Ile
35          40          45
Val Val Gln Met Ala Val Thr Met Val Leu His Gly Gln Val Glu Ser
50          55          60
Ile Asp Val Ile Arg Ser Ile Phe Phe Gly Leu Leu Ile Thr Pro Trp
65          70          75          80
Ala Val Tyr Phe Leu Ser Val Val Val Glu Gln Leu Glu Glu Ser Arg
85          90          95
Gln Arg Leu Ser Lys Leu Val Asp Lys Leu Glu Glu Met Arg Glu Arg
100         105         110
Asp Leu Lys Leu Asn Val Gln Leu Lys Asp Asn Ile Ala Gln Leu Asn
115         120         125
Gln Glu Ile Ser Asp Arg Glu Lys Ala Glu Ala Glu Arg Gln Thr Thr
130         135         140
Leu Glu Gln Leu Lys Ile Glu Met Lys Glu Arg Glu Val Thr Gln Ile
145         150         155         160

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Gln	Leu	Glu	Gln	Gln	Ser	Ser	Phe	Leu	Arg	Ser	Phe	Leu	Asp	Ala	Ser		
				165					170					175			
Pro	Asp	Leu	Val	Phe	Tyr	Arg	Asn	Glu	Asp	Lys	Glu	Phe	Ser	Gly	Cys		
			180					185					190				
Asn	Arg	Ala	Met	Glu	Leu	Leu	Thr	Gly	Lys	Ser	Glu	Lys	Gln	Leu	Ile		
		195					200					205					
His	Leu	Lys	Pro	Gln	Asp	Val	Tyr	Ser	Glu	Glu	Ala	Ala	Ala	Lys	Val		
	210					215					220						
Met	Glu	Thr	Asp	Glu	Lys	Val	Phe	Arg	His	Asn	Val	Ser	Leu	Thr	Tyr		
	225				230					235					240		
Glu	Gln	Trp	Leu	Asp	Tyr	Pro	Asp	Gly	Arg	Lys	Ala	Cys	Phe	Glu	Ile		
			245					250						255			
Arg	Lys	Val	Pro	Tyr	Tyr	Asp	Arg	Val	Gly	Lys	Arg	His	Gly	Leu	Met		
			260					265					270				
Gly	Phe	Gly	Arg	Asp	Ile	Thr	Glu	Arg	Lys	Arg	Tyr	Gln	Asp	Ala	Leu		
	275						280					285					
Glu	Arg	Ala	Ser	Arg	Asp	Lys	Thr	Thr	Phe	Ile	Ser	Thr	Ile	Ser	His		
	290					295					300						
Glu	Leu	Arg	Thr	Pro	Leu	Asn	Gly	Ile	Val	Gly	Leu	Ser	Arg	Ile	Leu		
	305				310					315					320		
Leu	Asp	Thr	Glu	Leu	Thr	Ser	Glu	Gln	Glu	Lys	Tyr	Leu	Lys	Thr	Ile		
			325					330						335			
His	Val	Ser	Ala	Val	Thr	Leu	Gly	Asn	Ile	Phe	Asn	Asp	Ile	Ile	Asp		
			340					345					350				
Met	Asp	Lys	Met	Glu	Arg	Arg	Lys	Val	Gln	Leu	Asp	Asn	Gln	Pro	Val		
	355						360					365					
Asp	Phe	Thr	Gly	Phe	Leu	Ala	Asp	Leu	Glu	Asn	Leu	Ser	Gly	Leu	Gln		
	370					375					380						
Ala	Gln	Gln	Lys	Gly	Leu	Ser	Phe	Val	Met	Glu	Pro	Thr	Leu	Pro	Leu		
	385				390					395					400		
Pro	His	Lys	Val	Val	Thr	Asp	Gly	Thr	Arg	Leu	Arg	Gln	Ile	Leu	Trp		
			405					410						415			
Asn	Leu	Ile	Ser	Asn	Ala	Val	Lys	Phe	Thr	Gln	Lys	Gly	Gln	Val	Ala		
		420						425					430				
Val	Arg	Ile	Arg	Tyr	Asp	Glu	Gly	Asp	Met	Leu	His	Phe	Glu	Val	Glu		
	435					440						445					
Asp	Ser	Gly	Ile	Gly	Ile	Pro	Gln	Glu	Glu	Gln	Asp	Lys	Ile	Phe	Ala		
	450					455					460						
Met	Tyr	Tyr	Gln	Val	Lys	Asp	Ser	His	Gly	Gly	Lys	Pro	Ala	Thr	Gly		
	465				470					475					480		
Thr	Gly	Ile	Gly	Leu	Ala	Val	Ser	Lys	Arg	Leu	Ala	Lys	Ser	Met	Gly		
			485						490					495			
Gly	Asp	Ile	Thr	Val	Ala	Ser	Gln	Pro	Gly	Lys	Gly	Ser	Thr	Phe	Thr		
		500						505					510				
Leu	Thr	Val	His	Ala	Pro	Ala	Val	Ala	Glu	Glu	Val	Glu	Asp	Thr	Phe		
	515						520					525					
Glu	Asn	Asp	Asp	Met	Pro	Leu	Pro	Ala	Leu	His	Val	Leu	Leu	Val	Glu		
	530					535					540						
Asp	Ile	Glu	Leu	Asn	Val	Ile	Val	Ala	Arg	Ser	Val	Leu	Glu	Lys	Leu		
	545				550					555					560		
Gly	Asn	Ser	Val	Asp	Val	Ala	Met	Thr	Gly	Lys	Ala	Ala	Leu	Glu	Met		
			565						570					575			
Phe	Thr	Pro	Gly	Glu	Tyr	Asp	Leu	Val	Leu	Leu	Asp	Ile	Gln	Leu	Pro		
		580						585					590				
Asp	Met	Thr	Gly	Leu	Asp	Ile	Ser	Arg	Glu	Leu	Thr	Arg	Lys	Tyr	Ala		
	595						600					605					
Pro	Asp	Glu	Leu	Pro	Pro	Leu	Val	Ala	Leu	Thr	Ala	Asn	Val	Leu	Lys		
	610					615					620						
Asp	Lys	Lys	Glu	Tyr	Leu	Glu	Ala	Gly	Met	Asp	Asp	Val	Leu	Ser	Lys		
	625				630					635					640		
Pro	Leu	Ala	Val	Pro	Ala	Pro	Asp	Gly	Asp	Asp	Gln	Glu	Val	Leu	Gly		

Tyr Leu 645 650 655

<210> 7354
 <211> 271
 <212> PRT
 <213> Enterobacter cloacae

<400> 7354
 Met Ser Gln Thr Met Ala Asn Ile Val Asp Val Arg Gly Val Ser Phe
 1 5 10 15
 Ser Arg Gly Asn Arg Leu Ile Phe Asp Asp Ile Ser Leu Thr Val Pro
 20 25 30
 Arg Gly Lys Ile Thr Ala Ile Met Gly Pro Ser Gly Ile Gly Lys Thr
 35 40 45
 Thr Leu Leu Arg Leu Ile Gly Gly Gln Ile Pro Pro Asp Ser Gly Glu
 50 55 60
 Ile Leu Phe Asp Gly Glu Asn Val Pro Ala Met Ser Arg Ser Arg Leu
 65 70 75 80
 Tyr Thr Val Arg Lys Arg Met Ser Met Leu Phe Gln Ser Gly Ala Leu
 85 90 95
 Phe Thr Asp Met Asn Val Phe Asp Asn Val Ala Tyr Pro Leu Arg Glu
 100 105 110
 His Thr His Leu Pro Pro Ala Leu Leu His Ser Thr Val Met Met Lys
 115 120 125
 Leu Glu Ala Val Gly Leu Arg Gly Ala Ala Lys Leu Met Pro Ser Glu
 130 135 140
 Leu Ser Gly Gly Met Ala Arg Arg Ala Ala Leu Ala Arg Ala Ile Ala
 145 150 155 160
 Leu Glu Pro Asp Leu Ile Met Phe Asp Glu Pro Phe Val Gly Gln Asp
 165 170 175
 Pro Ile Thr Met Gly Val Leu Val Lys Leu Ile Ser Glu Leu Asn Ser
 180 185 190
 Ala Leu Gly Val Thr Cys Val Val Val Ser His Asp Val Pro Glu Val
 195 200 205
 Leu Ser Ile Ala Asp Tyr Ala Tyr Ile Val Ala Asp Lys Lys Ile Val
 210 215 220
 Ala His Gly Ser Ala Gln Ala Leu Gln Glu Asn Gly Asp Pro Arg Val
 225 230 235 240
 Arg Gln Phe Leu Asp Gly Ile Ala Asp Gly Pro Val Pro Phe Arg Tyr
 245 250 255
 Pro Ala Gly Asp Tyr His Asp Asp Leu Leu Gly Ile Gly Ser
 260 265 270

<210> 7355
 <211> 435
 <212> PRT
 <213> Enterobacter cloacae

<400> 7355
 Gly Arg Asn Ala Arg Ser Thr Val Glu Phe Ile Arg Glu Gln Thr Met
 1 5 10 15
 Asp Lys Phe Arg Val Gln Gly Pro Thr Arg Leu Gln Gly Glu Val Thr
 20 25 30
 Ile Ser Gly Ala Lys Asn Ala Ala Leu Pro Ile Leu Phe Ala Ala Leu
 35 40 45
 Leu Ala Glu Glu Pro Val Glu Ile Gln Asn Val Pro Lys Leu Lys Asp
 50 55 60
 Ile Asp Thr Thr Met Lys Leu Leu Gly Gln Leu Gly Thr Lys Val Glu
 65 70 75 80

Arg Asn Gly Ser Val Trp Ile Asp Ala Ser Asn Val Asn Asn Phe Ser
 85 90 95
 Ala Pro Tyr Glu Leu Val Lys Thr Met Arg Ala Ser Ile Trp Ala Leu
 100 105 110
 Gly Pro Leu Val Ala Arg Phe Gly Gln Gly Gln Val Ser Leu Pro Gly
 115 120 125
 Gly Cys Ala Ile Gly Ala Arg Pro Val Asp Leu His Ile Phe Gly Leu
 130 135 140
 Glu Lys Leu Gly Ala Glu Ile Lys Leu Glu Glu Gly Tyr Val Lys Ala
 145 150 155 160
 Ser Val Asn Gly Arg Leu Lys Gly Ala His Ile Val Met Asp Lys Val
 165 170 175
 Ser Val Gly Ala Thr Val Thr Ile Met Ser Ala Ala Thr Leu Ala Glu
 180 185 190
 Gly Thr Thr Ile Ile Glu Asn Ala Ala Arg Glu Pro Glu Ile Val Asp
 195 200 205
 Thr Ala Asn Phe Leu Val Ala Leu Gly Ala Lys Ile Ser Gly Gln Gly
 210 215 220
 Thr Asp Arg Ile Thr Ile Glu Gly Val Glu Arg Leu Gly Gly Gly Val
 225 230 235 240
 Tyr Arg Val Leu Pro Asp Arg Ile Glu Thr Gly Thr Phe Leu Val Ala
 245 250 255
 Ala Ala Ile Ser Gly Gly Lys Ile Val Cys Arg Asn Ala Gln Pro Asp
 260 265 270
 Thr Leu Asp Ala Val Leu Ala Lys Leu Arg Asp Ala Gly Ala Asp Ile
 275 280 285
 Glu Ile Gly Glu Asp Trp Ile Ser Leu Asp Met His Gly Gln Arg Pro
 290 295 300
 Lys Ala Val Asn Val Arg Thr Ala Pro His Pro Ala Phe Pro Thr Asp
 305 310 315 320
 Met Gln Ala Gln Phe Thr Leu Leu Asn Leu Val Ala Glu Gly Thr Gly
 325 330 335
 Phe Ile Thr Glu Thr Ile Phe Glu Asn Arg Phe Met His Val Pro Glu
 340 345 350
 Leu Ile Arg Met Gly Ala His Ala Glu Ile Glu Ser Asn Thr Val Ile
 355 360 365
 Cys His Gly Val Glu Lys Leu Ser Gly Ala Gln Val Met Ala Thr Asp
 370 375 380
 Leu Arg Ala Ser Ala Ser Leu Val Leu Ala Gly Cys Ile Ala Glu Gly
 385 390 395 400
 Thr Thr Val Val Asp Arg Ile Tyr His Ile Asp Arg Gly Tyr Glu Arg
 405 410 415
 Ile Glu Asp Lys Leu Arg Ala Leu Gly Ala Asn Ile Glu Arg Val Lys
 420 425 430
 Gly Glu
 435

<210> 7356

<211> 340

<212> PRT

<213> Enterobacter cloacae

<400> 7356

Glu Asp His Ser Val Ile His Gly Ala Ala Phe Ala Pro Pro Pro Arg
 1 5 10 15
 Arg Tyr Arg Ala Glu Leu Glu Tyr Leu Met Lys Leu Ser Arg Gln Thr
 20 25 30
 Thr Ser Asp Thr Ser Val Asp Gly Arg Ser Arg Ala Tyr Ala Trp Gly
 35 40 45
 Arg Val His Tyr Phe Ile Ile Glu His Ala Pro Met Ala Glu Leu Val
 50 55 60

Ala Ile Asp Glu Leu Leu Glu Lys Ala Gly Trp Ser Asn Asp Gly Cys
 65 70 75 80
 Pro Asn Tyr Glu Lys Asp Asp Glu Phe Gly Asn Ala Gly Tyr Ser Cys
 85 90 95
 Gly Tyr Trp Ile Asp Ile Asp Ser Val Gly Ser Phe Lys Ala Asp Tyr
 100 105 110
 Lys Arg Leu Lys Gly Glu Ile Ser Ala His Ile Ala Ser Lys Ala Ala
 115 120 125
 Glu Val Glu Ile Arg Val Leu Asp Ser Met Ser Asp Lys Glu Cys Lys
 130 135 140
 Asp Val Ala Ser Val Ala Cys Thr Val Arg Arg Asp Leu Arg Thr Gln
 145 150 155 160
 Ser Glu Ser Leu His Ser Leu Arg Thr Ile Val Thr Val Asp His Tyr
 165 170 175
 Asn Pro Tyr Val Ile Thr Ser Arg Pro Leu Ser Ile Ser Ala Trp Thr
 180 185 190
 Leu Ile His Asp Cys Leu Lys Thr Gly Thr Ile Asn Asp Val Cys Ser
 195 200 205
 Arg Leu Ser Ser Leu Ile Leu His Ser Glu Ala Ala Ile Ala Arg Cys
 210 215 220
 Lys Gly Ser Ser Asp Tyr Ser Ser Glu His Ala Gln Leu Ser Phe Phe
 225 230 235 240
 Ala Gly Asn Asp Tyr Val Thr Arg Arg Thr Leu Val Asp Ala Ala His
 245 250 255
 Glu Glu Ala Leu Arg Met Asn Arg Arg Phe Asp Glu Arg Ile Ala Met
 260 265 270
 Asn Ala Asp Ser Asp Ala Arg Arg Leu Gln Cys Glu Phe Asn Leu Ser
 275 280 285
 Asn His Val Val Gln Arg Arg Thr Val Glu Ser Ala His Ile Gln Ala
 290 295 300
 Ile Asn Glu Asp Val Thr Arg Ser Gln Ala Glu Pro Arg Cys Pro Gly
 305 310 315 320
 Lys Leu Leu Leu Lys Met Thr Ser His Glu Glu Val Arg Asp Ser Leu
 325 330 335
 Ser Thr Cys
 340

<210> 7357

<211> 67

<212> PRT

<213> Enterobacter cloacae

<400> 7357

Leu Gln Met Ser Leu Gln Val Ser His Tyr Asn Met Leu Arg Ala Ser
 1 5 10 15
 His Glu Val Ser Gln Lys Val Val Val Arg Thr Val Ile Thr Val Arg
 20 25 30
 Phe Val Pro Glu Ala Asp Phe Leu Lys Ile Leu Arg Ala Gln Gln Leu
 35 40 45
 Gly Ala Gly His Ile Lys Tyr Pro Gln Asn Tyr Arg Glu Tyr Leu Lys
 50 55 60
 Phe Leu
 65

<210> 7358

<211> 100

<212> PRT

<213> Enterobacter cloacae

<400> 7358

Ala Val Gly Gln Ala Thr Leu Gly Ile Asp Thr Asn Val Gly Leu His

```

1           5           10           15
Ala Lys Val Pro Leu Ile Ala Phe Leu Gly Leu Met His Leu Arg Ile
      20           25           30
Ala Leu Leu Leu Phe Val Leu Gly Arg Ala Gly Cys Leu Asn Asp Gly
      35           40           45
Gly Ile Asp Gln Gly Ala Leu Ser His His Asp Ala Cys Phe Gly Gln
      50           55           60
Pro Ala Ile Asp Gly Leu Glu Gln Leu Ala Gly Gln Leu Met Leu Leu
65           70           75           80
Gln Gln Val Ala Glu Ile His Asp Gly Gly Ala Val Arg Gln Gly Ala
      85           90           95
Ile Gln Gly
      100

```

<210> 7359

<211> 84

<212> PRT

<213> Enterobacter cloacae

<400> 7359

```

His Gly Phe Gln Arg Ile Arg Ser Pro Ala Ile Thr Ser Leu Gly Val
1           5           10           15
Lys Arg Leu Asp Asp Phe His His Val Leu Pro Trp Gln Asn Leu Leu
      20           25           30
His Thr Gly Gln Glu Asn Leu Phe Ser Gly Leu Thr Ala Leu Thr Ala
      35           40           45
Glu Phe Thr Val Gly Glu Gly Lys Leu Met Thr His Asp Glu Pro Cys
      50           55           60
Ser Met Ala Pro Asp Asp Lys His Asp Leu Ile Ser Gly Thr Cys Ser
65           70           75           80
His Leu Pro

```

<210> 7360

<211> 285

<212> PRT

<213> Enterobacter cloacae

<400> 7360

```

Asn Val Pro Arg Gln Phe Ser Gly Gly Phe Phe Met Ile Lys Glu Thr
1           5           10           15
Val Thr Met Ser His Lys Glu Leu Asp Arg Leu His Ile Ile Gln Glu
      20           25           30
Ser Leu Asn Arg His Ile Thr Gln Glu Gln Ala Ala Ala Arg Ile Gly
      35           40           45
Ile Ser Ile Arg Gln Val Lys Arg Leu Val Gln Arg Tyr Arg Asn Glu
      50           55           60
Gly Pro Ser Gly Leu Val Ser Arg Arg Arg Gly Lys Arg Pro Asn Asn
65           70           75           80
Ser Phe Ser Thr Glu Phe Arg Ala Thr Val Ile Ser Leu Leu Lys Gly
      85           90           95
Arg Tyr Ala Asp Phe Gly Pro Thr Leu Ala Cys Glu Lys Leu Arg Glu
      100           105           110
Ile His Gly Leu Cys Leu Ser Ile Glu Thr Leu Arg Lys Trp Met Val
      115           120           125
Glu Glu Gly Ile Trp Arg Glu Arg Arg Arg Lys Phe Ala Arg Ile Tyr
      130           135           140
Gln Arg Arg Met Arg Arg Pro Ser Tyr Gly Glu Leu Ile Gln Ile Asp
145           150           155           160
Gly Ser Pro His Asp Trp Phe Glu Gly Arg Gly Pro Lys Cys Thr Leu
      165           170           175

```

```

Ile Val Phe Phe Asp Asp Ala Thr Ser Ala Leu Met Ala Leu Arg Phe
      180      185      190
Ala Pro Ala Glu Thr Thr Arg Ala Tyr Met Glu Thr Leu Arg Gly Tyr
      195      200      205
Leu Asn Asp His Gly Val Pro Leu Ala Leu Tyr Ser Asp Arg His Ser
      210      215      220
Ile Phe Arg Val Asn Asn Pro Glu Arg Glu Arg Arg Val Asp Ser Val
225      230      235      240
His Thr Cys Asp Lys Asp Thr Gly His Arg Ala Asn Pro Cys Gln Gln
      245      250      255
Pro Ala Gly Lys Arg Ala Gly Arg Ala Cys Gln Ser Asp Thr Ala Gly
      260      265      270
Gln Ala Gly Gln Arg Asn Ala Ala Ser Gly Tyr Gln
      275      280      285

```

<210> 7361

<211> 214

<212> PRT

<213> Enterobacter cloacae

<400> 7361

```

Arg Gly Phe Met Leu Ile Ile Gly Ala Cys Thr Arg Phe Ile Thr Ser
1      5      10      15
Val Ala Trp Ala Leu Asn Arg Arg Arg Arg Arg Lys Gly Leu Ala Thr
      20      25      30
Glu Arg Leu Pro Cys Phe Leu Pro Ala Ala Pro Asn Leu Thr Trp Ser
      35      40      45
Met Asp Phe Val Met Asp Ala Leu Ser Thr Gly Arg Arg Ile Lys Cys
      50      55      60
Leu Thr Cys Val Asp Asp Phe Thr Lys Glu Cys Leu Thr Val Thr Val
      65      70      75      80
Ala Phe Gly Ile Ser Gly Val Gln Val Thr Arg Ile Leu Asp Ser Ile
      85      90      95
Ala Leu Phe Arg Gly Tyr Pro Ala Thr Ile Arg Thr Asp Gln Gly Pro
      100      105      110
Glu Phe Thr Cys Arg Ala Leu Asp Gln Trp Ala Phe Glu His Gly Val
      115      120      125
Glu Leu Arg Leu Ile Gln Pro Gly Lys Pro Thr Gln Asn Gly Phe Ile
      130      135      140
Glu Ser Phe Asn Gly Arg Phe Arg Asp Glu Cys Leu Asn Glu His Trp
145      150      155      160
Phe Ser Asp Ile Val His Ala Arg Lys Ile Ile Asn Asp Trp Arg Gln
      165      170      175
Asp Tyr Asn Glu Cys Arg Pro His Ser Thr Leu Asn Tyr Gln Thr Pro
      180      185      190
Ser Glu Phe Ala Ala Gly Trp Arg Lys Gly His Ser Glu Asn Glu Asp
      195      200      205
Ser Asp Val Thr Asn
      210

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<210> 7362

<211> 351

<212> PRT

<213> Enterobacter cloacae

<400> 7362

```

Val Leu Tyr Leu Ile Val Gly Ala Gly His Gly Asp Ser Leu Asn Asn
1      5      10      15
Ala Asn Met Trp Gly Gly Glu Ile Leu Asn Arg Val Gln Gln Cys Thr
      20      25      30
Ser Tyr Thr Leu Ala Leu Thr Gly Thr Pro Trp Arg Thr Asp Asn Asn

```

```

      35      40      45
Pro Ile Val Leu Ser Asn Tyr Thr Asp Pro Gln Gly Lys Ile Cys Cys
  50      55      60
Asp Tyr Val Tyr Gly Leu His Glu Ala Ile Val Asp Gly Val Cys Arg
  65      70      75      80
Lys Pro Lys Ile Ala Leu Ile Asn Ser Asn Asn Leu Leu Tyr Ser Ser
      85      90      95
Gly Glu Val Val Gln His Phe Asp Ser Ile Ala Gly Phe Leu Ser Glu
      100      105      110
Thr Ile Thr Ser Tyr Gln Ser Ile Ile Trp His Pro Asp Ala Met Lys
      115      120      125
Tyr Leu Leu Lys Ser Gly Cys Lys Lys Leu Cys Glu Ile Arg Lys Val
      130      135      140
Asn Ser Asp Ala Gly Gly Leu Val Val Ala Ser Ser Val Glu His Ala
      145      150      155      160
Tyr Gln Leu Leu Asn Ile Leu Glu Asn Glu Phe Ala Gln Thr Ala Thr
      165      170      175
Ile Val Thr Tyr His Asp Arg Asp Ala Leu Val Lys Ile Glu Asn Tyr
      180      185      190
Arg Gln Ser Thr Thr Glu Trp Ile Val Ser Val Gly Met Ile Ser Glu
      195      200      205
Gly Thr Asp Ile Pro Arg Leu Gln Val Cys Cys His Leu Ser Ser Val
      210      215      220
Lys Thr Glu Leu Tyr Phe Arg Gln Val Leu Gly Arg Ile Leu Arg Val
      225      230      235      240
Asn Gln Ser Glu Asn Gln Glu Ala Trp Leu Phe Thr Ile Ala Thr Asp
      245      250      255
Glu Leu Thr Leu Phe Ser Asn Arg Leu Ala Glu Asp Leu Pro Glu Asp
      260      265      270
Tyr Lys Ile Leu Gln Lys Gln Ser Asp Glu Trp Ser Leu Ser Ile His
      275      280      285
Glu Thr Glu Ser Thr Ser Pro Glu Ile Val Arg Arg Asn Gly Met Ser
      290      295      300
Lys Ile Gly Glu Phe Asn Leu Lys Met Asn Phe Ser Glu Ile Thr Ile
      305      310      315      320
Ser Pro Pro Ala Val Leu Asp Lys Thr Lys Gln Leu Asn Met Gly Ser
      325      330      335
Leu Tyr Gln Gln Val Ile Asp Ala Phe Leu Phe Ser Val Ile
      340      345      350

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<210> 7363

<211> 93

<212> PRT

<213> Enterobacter cloacae

<400> 7363

```

Ser Ala Ala Trp Arg Gly Ala Ile Cys Leu Ser Arg Cys Arg Leu Pro
  1      5      10      15
Arg Gly Ala Thr Ala Arg Gly Ala Gly Arg Gly Gly Cys Gly Leu Ala
      20      25      30
Asp Arg Arg Ala Pro Arg Gln Gly Lys Asn Leu Glu Thr Ala Ser Thr
      35      40      45
Gln Glu Gln Asn Gly His Gln His Arg Ile His Glu Ser Gln His Pro
      50      55      60
Gly Gln Gly Gly Ala Pro Ile Ser His His Gln Ala Thr Val Arg Leu
      65      70      75      80
Arg Glu Ser Gln Ile Gln Gly Val Ala Glu Lys Arg
      85      90

```

<210> 7364

<211> 230

<212> PRT

<213> *Enterobacter cloacae*

<400> 7364

```

Ile Thr Arg Ser Gly Lys Gly Glu Leu Thr Gln Phe Thr Arg Ala Ile
1      5      10      15
Lys Thr Leu Gly Ile Glu Pro Ile His Ala Asn Ser Pro Gln Ala Lys
      20      25      30
Gly Arg Val Glu Arg Ala Asn Gln Thr Leu Gln Asp Arg Leu Val Lys
      35      40      45
Glu Met Arg Leu Gln Gly Ile Ser Asp Ile Glu Thr Ala Asn Ala Trp
      50      55      60
Leu Pro Thr Phe Ile Glu Ala Tyr Asn Asn Arg Phe Ala Thr Pro Pro
      65      70      75      80
Arg Ile Ala Asp Asn Ala His Leu Asp Val His His Ser Glu Glu Glu
      85      90      95
Leu Gly Tyr Ile Phe Ser Leu Gln Ala Lys Arg Val Leu Ser Lys Asn
      100      105      110
Leu Thr Phe Gln Tyr Lys Ser Ser Ala Phe Gln Ile Arg Ser Glu Gly
      115      120      125
Arg Gly Tyr Arg Leu Arg His Ser Val Val Thr Val Cys Glu Ser Phe
      130      135      140
Asn Gly Glu Ile Lys Val Leu Tyr Asp Gly Lys Ala Leu Gly Trp Glu
      145      150      155      160
Lys Tyr Val Asp Gly Pro Glu Pro Ile Pro Leu Asp Asp Glu Lys Ser
      165      170      175
Val His Glu Arg Val Asp Asn Ala Arg Phe Asp Leu Arg Ser Lys Phe
      180      185      190
Tyr Val Lys Pro Lys Ala Asp His Pro Trp Leu Thr Arg Arg Thr Gln
      195      200      205
Ser Asn Gln Gln Val Lys Pro Pro Lys Leu Pro Arg Lys Lys Ala Asp
      210      215      220
Pro Asp Lys Met Asp
225      230

```

<210> 7365

<211> 316

<212> PRT

<213> *Enterobacter cloacae*

<400> 7365

```

Ser Ser Tyr Phe Arg Lys Leu Ile Met Thr Lys Thr Lys Gly Leu Pro
1      5      10      15
Arg Pro Leu Thr His Tyr Ala Trp Leu Ser Ile Ala Thr Ala Ile Ala
      20      25      30
Thr Ile Gly Leu Lys Gly Val Ala Trp Lys Met Thr Gly Ser Val Gly
      35      40      45
Leu Leu Ser Asp Ala Ile Glu Ser Val Val Asn Leu Ala Gly Ala Leu
      50      55      60
Met Ala Leu Trp Met Leu Thr Leu Ala Ala Leu Pro Ala Asp Glu Asn
      65      70      75      80
His Ala Tyr Gly His Gly Lys Ala Glu Tyr Phe Ser Ser Ala Phe Glu
      85      90      95
Gly Phe Leu Ile Leu Leu Ala Ala Ala Ser Ile Ala Tyr Thr Ala Val
      100      105      110
Glu Arg Met Leu Thr Pro Gln Pro Leu Glu Glu Ile Gly Leu Gly Leu
      115      120      125
Leu Val Ser Thr Val Ala Ser Ile Leu Asn Phe Val Thr Ala Arg Ile
      130      135      140
Leu Leu Arg Ala Gly Arg Gln His Asn Ser Ile Thr Leu Glu Ala Asp
      145      150      155      160

```


Ala His His Leu Leu Thr Asp Val Trp Thr Ser Val Gly Val Ile Phe
165 170 175
Gly Val Gly Leu Val Tyr Leu Thr Gly Trp Phe Trp Val Asp Pro Ile
180 185 190
Val Ala Leu Leu Val Ala Ala Asn Ile Val Trp Thr Gly Tyr Gln Leu
195 200 205
Met Ser Arg Ser Ala Ala Gly Leu Met Asp Val Ser Leu Pro Thr Glu
210 215 220
Glu Leu Lys Lys Ile Glu Ser Leu Leu Ala Gly Tyr Arg Glu Gln Gly
225 230 235 240
Leu Asp Phe His Ala Leu Arg Thr Arg Gln Ala Gly Gly Arg Ala Phe
245 250 255
Met Thr Met His Ile Leu Val Pro Gly Arg Trp Thr Val Gln Tyr Gly
260 265 270
His Asp Trp Ala Glu Arg Ile Glu Asn Asp Ile Arg Thr Ala Leu Pro
275 280 285
Phe Ile His Ile Thr Thr His Val Glu Pro Leu Glu Asp Pro Ala Ser
290 295 300
Met Asn Asp Gln Thr Leu Asp Ile Ser Asp His
305 310 315

<210> 7366

<211> 98

<212> PRT

<213> Enterobacter cloacae

<400> 7366

Thr Leu Met Ala Tyr Phe Leu Asp Phe Asp Glu Arg Ala Leu Lys Glu
1 5 10 15
Trp Arg Lys Leu Gly Ser Thr Val Arg Glu Gln Leu Lys Lys Leu
20 25 30
Val Glu Val Leu Glu Ser Pro Arg Ile Glu Ala Asn Lys Leu Arg Gly
35 40 45
Met Pro Asp Cys Tyr Lys Ile Lys Leu Arg Ser Ser Gly Tyr Arg Leu
50 55 60
Val Tyr Gln Val Ile Asp Glu Lys Val Val Val Phe Val Ile Ser Val
65 70 75 80
Gly Lys Arg Glu Arg Ser Glu Val Tyr Ser Glu Ala Val Lys Arg Ile
85 90 95
Leu

<210> 7367

<211> 342

<212> PRT

<213> Enterobacter cloacae

<400> 7367

Tyr Glu Ile Met Phe Val Ile Trp Ser His Gly Thr Gly Phe Ile Met
1 5 10 15
Ser His Gln Leu Thr Phe Ala Asp Ser Glu Phe Ser Ser Lys Arg Arg
20 25 30
Gln Thr Arg Lys Glu Ile Phe Leu Ser Arg Met Glu Gln Ile Leu Pro
35 40 45
Trp Gln Asn Met Val Glu Val Ile Glu Pro Phe Tyr Pro Lys Ala Gly
50 55 60
Asn Gly Arg Arg Pro Tyr Pro Leu Glu Thr Met Leu Arg Ile His Cys
65 70 75 80
Met Gln His Trp Tyr Asn Leu Ser Asp Gly Ala Met Glu Asp Ala Leu
85 90 95
Tyr Glu Ile Ala Ser Met Arg Arg Phe Ala Arg Leu Ser Leu Asp Ser

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<210> 7368
<211> 458
<212> PRT
<213> Enterobacter cloacae
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Ser 1	Pro	Leu	Phe	Phe 5	Arg	Ala	Ser	Arg	Cys 10	Ser	Thr	Phe	Ala	Asn 15	Glu
Tyr	Ser	Gly	His	Ala 20	Asp	Lys	Leu	Leu 25	Ala	Ile	Phe	Leu	Ser 30	Lys	Ser
Val	Glu	Cys 35	Ile	Pro	Ile	Pro	Asp 40	Lys	Lys	Glu	Leu	Val 45	Met	Thr	Val
Thr	Asn 50	Gln	Phe	Ala	Ala 55	His	Val	Gly	Leu	Asp 60	Trp	Ala	Asp	Lys	Lys
His 65	Asp	Val	Cys	Val	Gln 70	Phe	Lys	Asn	Gly	Glu 75	Arg	Val	Phe	Asp	Val 80
Ile	Glu	His	Thr	Ala 85	Glu	Ala	Leu	Asp 90	Ala	Trp	Leu	Thr	Glu 95	Leu	His
Gln	Lys	Val	Lys 100	Gly	Arg	Ile	Ala	Ile 105	Ala	Leu	Glu	Leu	Lys 110	Lys	Gly
Pro	Val	Val 115	Tyr	Ala	Leu	Gln	Lys 120	Tyr	Pro	Phe	Ile	Thr 125	Val	Phe	Pro
Val	His 130	Ala	Leu	Ser	Leu	Ala 135	Arg	Tyr	Arg	Gln	Ala 140	Phe	Ser	Pro	Ser
Gly 145	Ala	Lys	Asp	Asp 150	Pro	Gln	Asp	Ala	Glu	Leu 155	Ala	Leu	Glu	Leu 160	Met
Leu	Arg	Tyr	Pro	Gln 165	Lys	Ile	Lys	Ala	Ile 170	Glu	Pro	Asp	Asn 175	Ala	Asp
Ile	Arg	Leu	Leu	Gln	Gln	Leu	Val	Glu	Gln	Arg	Arg	Gln	Leu	Val	Glu

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<210> 7369
<211> 81
<212> PRT
<213> Enterobacter cloacae
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```
<210> 7370
<211> 63
<212> PRT
<213> Enterobacter cloacae

<400> 7370
```

His Phe Cys Phe Ala Leu Thr Gly Glu Glu Gly His Glu Asn Ala Glu
 1 5 10 15
 Pro Thr His Cys Phe Val His Ile Asn Ser Leu Phe Asn Ala Val Asp
 20 25 30
 Ile His Leu Ala His Thr Lys Leu Ala Leu Arg Val Ala Asp Glu Arg
 35 40 45
 Arg Asn Lys Gly Gly Ile Cys Tyr Pro Gly Leu Arg Ile Arg
 50 55 60

<210> 7371

<211> 404

<212> PRT

<213> Enterobacter cloacae

<400> 7371

Leu Cys Tyr Gly His Gln Lys Leu Lys Arg Val Glu Val Lys Gln Met
 1 5 10 15
 Lys Ile Thr Ile Ser Gly Thr Gly Tyr Val Gly Leu Ser Asn Gly Ile
 20 25 30
 Leu Ile Ala Gln Asn His Glu Val Ala Leu Asp Ile Val Gln Ala
 35 40 45
 Lys Val Asp Met Leu Asn Gln Lys Lys Ser Pro Ile Val Asp Lys Glu
 50 55 60
 Ile Glu Glu Tyr Leu Ala Thr Lys Pro Leu Asn Phe Arg Ala Thr Thr
 65 70 75 80
 Asp Lys Glu Asp Ala Tyr Arg Asp Ala Asp Phe Val Ile Ile Ala Thr
 85 90 95
 Pro Thr Asp Tyr Asp Pro Lys Thr Asn Tyr Phe Asn Thr Ser Thr Val
 100 105 110
 Glu Ala Val Ile Lys Asp Val Thr Ala Ile Asn Pro Asn Ala Val Met
 115 120 125
 Ile Ile Lys Ser Thr Ile Pro Val Gly Phe Thr Lys Ser Ile Lys Glu
 130 135 140
 Glu Leu Gly Ile Asp Asn Val Phe Phe Ser Pro Glu Phe Leu Arg Glu
 145 150 155 160
 Gly Arg Ala Leu Tyr Asp Asn Leu His Pro Ser Arg Ile Val Ile Gly
 165 170 175
 Glu Arg Ser Glu Arg Ala Glu Arg Phe Ala Ala Leu Leu Gln Glu Gly
 180 185 190
 Ala Ile Lys Lys Asp Ile Pro Val Leu Phe Thr Asp Ser Thr Glu Ala
 195 200 205
 Glu Ala Ile Lys Leu Phe Ala Asn Thr Tyr Leu Ala Met Arg Val Ala
 210 215 220
 Tyr Phe Asn Glu Leu Asp Ser Tyr Ala Glu Ser Leu Gly Leu Asn Thr
 225 230 235 240
 Arg Gln Ile Ile Glu Gly Val Cys Leu Asp Pro Arg Ile Gly Asn His
 245 250 255
 Tyr Asn Asn Pro Ser Phe Gly Tyr Gly Gly Tyr Cys Leu Pro Lys Asp
 260 265 270
 Thr Lys Gln Leu Leu Ala Asn Tyr Gln Ala Val Pro Asn Asn Leu Ile
 275 280 285
 Ser Ala Ile Val Asp Ala Asn Arg Thr Arg Lys Asp Phe Ile Ser Asp
 290 295 300
 Ser Ile Leu Ala Arg Gln Pro Lys Val Val Gly Val Tyr Arg Leu Ile
 305 310 315 320
 Met Lys Ser Gly Ser Asp Asn Phe Arg Ala Ser Ser Ile Gln Gly Ile
 325 330 335
 Met Lys Arg Ile Lys Ala Lys Gly Val Gln Val Ile Ile Tyr Glu Pro
 340 345 350
 Ala Met Gln Glu Asp Glu Phe Phe His Ser Arg Val Ile Arg Asp Leu
 355 360 365

Asp Ala Phe Lys Lys Glu Ala Asp Val Ile Ile Ser Asn Arg Met Ala
 370 375 380
 Glu Glu Leu Ala Asp Val Lys Asp Lys Val Tyr Thr Arg Asp Leu Phe
 385 390 395 400
 Gly Ser Asp

<210> 7372
 <211> 156
 <212> PRT
 <213> Enterobacter cloacae

<400> 7372
 Arg Ala Gln Thr Ser Ser Tyr Ser Glu Thr Leu Glu Pro Ala Ser Val
 1 5 10 15
 Pro Ser Arg Glu Ile Ser Val His Arg Thr Cys Phe Ser Pro Thr Gly
 20 25 30
 Arg Tyr Ile Pro Thr Ser Ser Ser Ser Val Thr Pro Glu Phe Ser Cys
 35 40 45
 Gln Pro Leu Thr Ala Thr Cys Leu Leu Pro Cys Ser Ser Met Arg Thr
 50 55 60
 Ser Ser Ala Ser Thr Ser Ala Ser Ala Pro Lys Arg Arg Asn Gln Pro
 65 70 75 80
 Leu Thr Leu Ser Gly Ser Phe Thr Ala Val Glu Pro Thr Thr Thr Arg
 85 90 95
 Ala Thr Pro Ala Ser Ser Lys Ala Ala Thr Ser Ala Ser Val Arg Thr
 100 105 110
 Pro Pro Pro Thr Cys Thr Gly Thr Ser Thr Pro Ala Thr Ser Val Leu
 115 120 125
 Ser Ser Gly Ile Trp Arg Phe Ala Gly Ser Phe Ala Pro Val Arg Ser
 130 135 140
 Thr Arg Cys Asn Thr Ser Ala Pro Ser Ala Ala
 145 150 155

<210> 7373
 <211> 117
 <212> PRT
 <213> Enterobacter cloacae

<400> 7373
 Glu Trp Ile Leu Ser Arg Thr Pro Gly Gln Lys Ser Pro Ala His Arg
 1 5 10 15
 Pro Leu Tyr Arg Ser Pro Ala Arg Arg Thr Ala Ser Pro Arg Thr Gly
 20 25 30
 Ser His Arg Gln Leu Val Glu Glu Ser Arg Ala Pro Pro Ser Asp Asn
 35 40 45
 Arg Gln Tyr Val Pro Gly Trp Pro Ala Ser Gly Arg Ser Lys Thr Ala
 50 55 60
 Glu Gln Ser Arg Arg Glu Tyr Arg Gly Arg Arg Thr Pro Pro Val Ala
 65 70 75 80
 Ser Pro Ala Gly Ser Ala Arg Arg Ala Gly Phe Pro His Pro Pro Pro
 85 90 95
 Ala Ile Ser Ala Arg Cys Gly Arg Tyr Gln Tyr Phe Ser Pro Arg Arg
 100 105 110
 Pro Ser Pro Val
 115

<210> 7374
 <211> 381
 <212> PRT
 <213> Enterobacter cloacae

<400> 7374

Arg Tyr Arg Ala Phe Leu Ser Tyr Pro Ile His Leu Leu Phe Asn Gly
 1 5 10 15
 Ile Asp Cys Val Lys Ile Leu Val Thr Gly Gly Ala Gly Phe Ile Gly
 20 25 30
 Ser Ala Val Ile Arg His Ile Ile Ser Asn Thr Arg Asp Ser Val Val
 35 40 45
 Asn Val Asp Lys Leu Thr Tyr Ala Gly Asn Leu Glu Ser Leu Arg Glu
 50 55 60
 Val Ser Asp Ser Glu Arg Tyr Val Phe Glu His Ala Asp Ile Cys Asp
 65 70 75 80
 Lys Glu Ala Met Ala Arg Ile Phe Ala Thr His Gln Pro Asp Ala Val
 85 90 95
 Met His Leu Ala Ala Glu Ser His Val Asp Arg Ser Ile Thr Gly Pro
 100 105 110
 Ala Ala Phe Ile Glu Thr Asn Ile Phe Gly Thr Tyr Ile Leu Leu Glu
 115 120 125
 Thr Ser Arg Ala Tyr Trp Ser Ser Leu Asp Glu Ala Ala Lys Ser Ala
 130 135 140
 Phe Arg Phe His His Ile Ser Thr Asp Glu Val Tyr Gly Asp Leu Pro
 145 150 155 160
 His Pro Asp Glu His Ser Asp Ser Thr Pro Leu Pro Leu Phe Thr Glu
 165 170 175
 Lys Thr Ala Tyr Gln Pro Ser Ser Pro Tyr Ser Ala Ser Lys Ala Ser
 180 185 190
 Ser Asp His Leu Val Arg Ala Trp Ile Arg Thr Tyr Gly Leu Pro Gly
 195 200 205
 Ile Val Thr Asn Cys Ser Asn Asn Tyr Gly Pro Tyr His Phe Pro Glu
 210 215 220
 Lys Leu Ile Pro Leu Val Ile Leu Asn Ala Leu Asp Asn Lys Pro Leu
 225 230 235 240
 Pro Ile Tyr Gly Lys Gly Asp Gln Ile Arg Asp Trp Leu Tyr Val Glu
 245 250 255
 Asp His Ala Arg Ala Leu Tyr Thr Val Leu Thr Thr Gly Lys Pro Gly
 260 265 270
 Glu Thr Tyr Asn Ile Gly Gly His Asn Glu Lys Lys Asn Ile Glu Val
 275 280 285
 Val Gln Thr Ile Cys Asp Leu Leu Asp Asp Met Val Pro Lys Glu Thr
 290 295 300
 Ser Tyr Arg Ala Gln Ile Thr Tyr Val Ala Asp Arg Pro Gly His Asp
 305 310 315 320
 Arg Arg Tyr Ala Ile Asp Ala His Lys Ile Ser Asp Glu Leu Gly Trp
 325 330 335
 Thr Pro Val Glu Thr Phe Glu Ser Gly Ile Arg Lys Thr Val Lys Trp
 340 345 350
 Tyr Leu Asn Asn Gln Glu Trp Val Ser Asn Val Lys Ser Gly Ala Tyr
 355 360 365
 Lys Ser Trp Ile Glu Gln Asn Tyr Gly Glu Arg Lys
 370 375 380

<210> 7375

<211> 294

<212> PRT

<213> Enterobacter cloacae

<400> 7375

Met Thr Lys Arg Lys Gly Ile Ile Leu Ala Gly Gly Ser Gly Thr Arg
 1 5 10 15
 Leu Tyr Pro Val Thr Met Ala Val Ser Lys Gln Leu Leu Pro Ile Tyr
 20 25 30

```

Asp Lys Pro Met Ile Tyr Tyr Pro Leu Ser Thr Leu Met Leu Ala Gly
   35           40           45
Ile Arg Asp Ile Leu Ile Ile Ser Thr Pro Gln Asp Thr Pro Arg Phe
   50           55           60
Glu Gln Leu Leu Gly Asn Gly Ser Gln Trp Gly Leu His Ile Gln Tyr
   65           70           75           80
Lys Val Gln Pro Ser Pro Asp Gly Leu Ala Gln Ala Phe Ile Leu Gly
           85           90           95
Glu Glu Phe Ile Gly Glu Asp Asn Cys Ala Leu Val Leu Gly Asp Asn
           100           105           110
Ile Phe Tyr Gly His Asp Leu Pro Arg Leu Leu Glu Gly Ala Ala Ser
           115           120           125
Gln Gln Glu Gly Ala Thr Val Phe Ala Tyr His Val Ser Asp Pro Glu
           130           135           140
Arg Tyr Gly Val Val Glu Phe Asp Lys Asp Gly Thr Ala Ile Gly Leu
           145           150           155           160
Glu Glu Lys Pro Gln Gln Pro Lys Ser Asn Tyr Ala Ile Thr Gly Leu
           165           170           175
Tyr Phe Tyr Asp Asn Asp Val Val Glu Met Ala Lys Ser Leu Thr Pro
           180           185           190
Ser Glu Arg Gly Glu Leu Glu Ile Thr Asp Ile Asn Arg Ile Tyr Met
           195           200           205
Gln Gln Gly Arg Leu Ser Val Ala Met Met Arg Arg Gly Tyr Ala Trp
           210           215           220
Leu Asp Thr Gly Thr His Gln Ser Met Ile Glu Ala Ser Asn Phe Ile
           225           230           235           240
Ala Thr Ile Glu Glu Arg Gln Gly Leu Lys Val Ser Cys Pro Glu Glu
           245           250           255
Ile Ala Phe Arg Arg Gly Phe Ile Asp Ala Glu Gln Leu Arg Val Leu
           260           265           270
Ala Glu Pro Leu Lys Lys Thr Gly Tyr Gly Gln Tyr Leu Leu Asn Leu
           275           280           285
Thr Lys Gly Leu Val
           290

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<210> 7376

<211> 292

<212> PRT

<213> Enterobacter cloacae

<400> 7376

```

Ala Glu Asn Val Met Lys Lys Val Ala Ile Val Gly Leu Gly Trp Leu
   1           5           10           15
Gly Met Pro Leu Ala Met Ser Leu Ala Ala Lys Gly Trp Gln Val Thr
           20           25           30
Gly Ser Lys Thr Thr Arg Asp Gly Val Glu Ala Ala Arg Met Cys Gly
           35           40           45
Ile Asp Gly Val Glu Leu Arg Leu Glu Pro Glu Leu Ile Cys Asp Thr
           50           55           60
Asp Glu Leu Asp Glu Leu Met Asn Val Asp Ala Leu Val Ile Thr Leu
           65           70           75           80
Pro Ala Arg Arg Ser Gly Pro Ser Glu Thr Phe Tyr Leu Gln Ala Val
           85           90           95
Gln Glu Ile Val Asp Ser Ala Leu Ala His His Ile Pro Arg Ile Ile
           100           105           110
Phe Thr Ser Ser Thr Ser Val Tyr Gly Ala Ile Asp Gly Thr Ala Lys
           115           120           125
Glu Asn Thr Glu Arg Arg Pro Val Thr Ala Ser Gly Arg Val Leu Lys
           130           135           140
Glu Leu Glu Asp Trp Leu His Asn Leu Pro Gly Thr Gln Val Asp Ile
           145           150           155           160

```

Leu Arg Leu Ala Gly Leu Val Gly Pro Gly Arg His Pro Gly Arg Phe
 165 170 175
 Phe Ala Gly Lys Ser Ala Pro Asp Gly Gln His Gly Val Asn Leu Val
 180 185 190
 His Leu Glu Asp Val Ile Gly Ala Ile Glu Leu Leu Leu Gln Ala Pro
 195 200 205
 Lys Gly Gly His Ile Tyr Asn Ile Cys Ala Pro Ser His Pro Pro Arg
 210 215 220
 Ser Thr Phe Tyr Pro Leu Met Ala Arg Gln Leu Gly Leu Ala Pro Pro
 225 230 235 240
 Val Phe Ser Asp Ala Gln Gly Glu Arg Lys Gly Lys Ile Ile Asp Gly
 245 250 255
 Asn Arg Ile Cys His Glu Leu Gly Phe Glu Tyr Gln Tyr Pro Asp Pro
 260 265 270
 Leu Val Met Pro Thr Glu Tyr Phe Ser Leu Thr Lys Arg Pro Gly Pro
 275 280 285
 Ala Leu Asn Ala
 290

<210> 7377

<211> 483

<212> PRT

<213> Enterobacter cloacae

<400> 7377

Cys Leu Ala Arg Leu Leu Pro Thr Pro Leu Gly Glu Asp Gly Met Ser
 1 5 10 15
 Arg Gln Gln Ile Gly Val Ile Gly Met Ala Val Met Gly Arg Asn Leu
 20 25 30
 Ala Leu Asn Ile Glu Ser Arg Gly Tyr Thr Val Ser Ile Phe Asn Arg
 35 40 45
 Ser Arg Asp Lys Thr Glu Glu Val Ile Ala Glu Asn Pro Gly Lys Lys
 50 55 60
 Leu Val Pro Phe Tyr Thr Val Lys Glu Phe Val Glu Ser Leu Glu Thr
 65 70 75 80
 Pro Arg Arg Ile Leu Leu Met Val Lys Ala Gly Ala Gly Thr Asp Ala
 85 90 95
 Ala Ile Asp Ser Leu Lys Pro Tyr Leu Asp Lys Gly Asp Ile Ile Ile
 100 105 110
 Asp Gly Gly Asn Thr Phe Phe His Asp Thr Ile Arg Arg Asn Arg Glu
 115 120 125
 Leu Ser Ala Glu Gly Phe Asn Phe Ile Gly Thr Gly Val Ser Gly Gly
 130 135 140
 Glu Glu Gly Ala Leu Lys Gly Pro Ser Ile Met Pro Gly Gly Gln Lys
 145 150 155 160
 Glu Ala Tyr Glu Leu Val Ala Pro Ile Leu Thr Lys Ile Ala Ala Val
 165 170 175
 Ala Glu Asp Gly Glu Pro Cys Val Thr Tyr Ile Gly Pro Asp Gly Ala
 180 185 190
 Gly His Tyr Val Lys Met Val His Asn Gly Ile Glu Tyr Gly Asp Met
 195 200 205
 Gln Leu Ile Ala Glu Ala Tyr Ser Leu Leu Lys Gly Gly Leu Asn Leu
 210 215 220
 Ser Asn Glu Glu Leu Ala Glu Thr Phe Thr Glu Trp Asn Lys Gly Glu
 225 230 235 240
 Leu Asn Ser Tyr Leu Ile Asp Ile Thr Lys Asp Ile Phe Thr Lys Lys
 245 250 255
 Asp Glu Glu Gly Lys Tyr Leu Val Asp Val Ile Leu Asp Glu Ala Ala
 260 265 270
 Asn Lys Gly Thr Gly Lys Trp Thr Ser Gln Ser Ser Leu Asp Leu Gly
 275 280 285

Glu Pro Leu Ser Leu Ile Thr Glu Ser Val Phe Ala Arg Tyr Ile Ser
 290 295 300
 Ser Leu Lys Glu Gln Arg Val Ala Ala Ser Lys Val Leu Ser Gly Pro
 305 310 315 320
 Gln Ala Lys Pro Ala Gly Asp Lys Ala Glu Phe Val Glu Lys Val Arg
 325 330 335
 Arg Ala Leu Tyr Leu Gly Lys Ile Val Ser Tyr Ala Gln Gly Phe Ser
 340 345 350
 Gln Leu Arg Ala Ala Ser Asp Glu Asn Asn Trp Asp Leu Asn Tyr Gly
 355 360 365
 Glu Ile Ala Lys Ile Phe Arg Ala Gly Cys Ile Ile Arg Ala Gln Phe
 370 375 380
 Leu Gln Lys Ile Thr Asp Ala Tyr Ala Glu Asn Ala Gly Ile Ala Asn
 385 390 395 400
 Leu Leu Leu Ala Pro Tyr Phe Lys Gln Ile Ala Asp Asp Tyr Gln Gln
 405 410 415
 Ala Leu Arg Asp Val Val Ala Tyr Ala Val Gln Asn Gly Ile Pro Val
 420 425 430
 Pro Thr Phe Ser Ala Ala Val Ala Tyr Tyr Asp Ser Tyr Arg Ala Ala
 435 440 445
 Val Leu Pro Ala Asn Leu Ile Gln Ala Gln Arg Asp Tyr Phe Gly Ala
 450 455 460
 His Thr Tyr Lys Arg Thr Asp Lys Glu Gly Val Phe His Thr Glu Trp
 465 470 475 480
 Leu Asp

<210> 7378

<211> 381

<212> PRT

<213> Enterobacter cloacae

<400> 7378

Cys Pro Arg Thr Ser Glu Ser Ala Tyr Asp Ser Ala Ser Tyr Phe Thr
 1 5 10 15
 Tyr Ile Thr His Leu Ser Asp Ile Thr His Arg Ile Leu Ile Glu Lys
 20 25 30
 Ser Pro Ala Thr Asp Thr Leu Arg Lys Gln Asp Tyr Phe Cys Pro Phe
 35 40 45
 Ser Ser Val Arg Asp Cys Met Thr Gln Asn Asn Asn Ser Leu Val Thr
 50 55 60
 Arg Asn Asn Asp Pro Glu Gln Ile Asp Leu Leu Asp Leu Val Leu Gln
 65 70 75 80
 Leu Trp Arg Gly Lys Trp Val Ile Gly Ala Phe Val Ala Ala Phe Ile
 85 90 95
 Val Leu Ala Val Val Tyr Ile Thr Val Ala Lys Glu Lys Trp Thr Ser
 100 105 110
 Ser Ala Ile Ile Ala Gln Pro Asp Ala Ala Gln Ile Ala Thr Tyr Ser
 115 120 125
 Asn Ala Leu Asn Ile Leu Tyr Gly Gly Ala Ala Pro Ser Met Leu Asp
 130 135 140
 Ile Gln Asn Arg Ala Ile Gly Arg Phe Asn Ser Ser Phe Ser Ala Leu
 145 150 155 160
 Ala Gln Ala Leu Glu Asn Gln Glu Asp Pro Glu Lys Leu Thr Ile Glu
 165 170 175
 Pro Thr Val Lys Gly Gln Ser Leu Pro Leu Thr Val Ser Tyr Gln Gly
 180 185 190
 Glu Ser Ala Asp Ala Ala Gln Lys Gln Leu Ala Gln Tyr Ile Gln Gln
 195 200 205
 Val Asp Glu Gln Thr Ala Lys Glu Leu Thr Leu Asp Leu Arg Asp Asn
 210 215 220

Leu Lys Gln Gln Ile Thr Thr Leu Asn Asp Ser Leu Gln Asn Gln Glu
 225 230 235 240
 Lys Val Ala Gln Glu Lys Asp Leu Arg Ile Lys Gln Ile Ser Glu
 245 250 255
 Ala Tyr Lys Asn Ala Glu Ala Ala Asn Ile Ser Thr Pro Gln Leu Gln
 260 265 270
 Gln Thr Gln Asp Val Thr Gln Glu Thr Met Phe Leu Leu Gly Thr Val
 275 280 285
 Ala Leu Lys Ser Met Ile Asp Asn Glu Ala Ser Arg Pro Leu Val Phe
 290 295 300
 Ser Gly Ala Tyr Tyr Gln Thr Lys Gln Asn Leu Leu Asp Ile Gln Asn
 305 310 315 320
 Leu Asn Val Asn Pro Asp Thr Ile His Val Tyr Arg Tyr Val Met Lys
 325 330 335
 Pro Asn Leu Pro Ile Arg Arg Asp Ser Pro Lys Lys Ala Ile Thr Leu
 340 345 350
 Ile Leu Ala Val Leu Leu Gly Gly Ile Ile Gly Ser Ala Val Val Leu
 355 360 365
 Gly Arg Asn Ala Leu Arg Asn Tyr Lys Pro Arg Ala
 370 375 380

<210> 7379

<211> 328

<212> PRT

<213> Enterobacter cloacae

<400> 7379

Lys Ser Pro Arg Lys Ile Phe Phe Arg Gly Leu Phe Phe Gly Pro His
 1 5 10 15
 Ser Asp Arg Leu Lys Gln Val Asn Glu His Arg Met Leu Asp Asn
 20 25 30
 Ser Arg Leu Arg Ile Ala Ile Gln Lys Ser Gly Arg Leu Ser Asp Asp
 35 40 45
 Ser Arg Glu Leu Leu Ala Arg Cys Gly Ile Lys Ile Asn Leu His Thr
 50 55 60
 Gln Arg Leu Ile Ala Leu Ala Glu Asn Met Pro Ile Asp Ile Leu Arg
 65 70 75 80
 Val Arg Asp Asp Asp Ile Pro Gly Leu Val Met Asp Gly Val Val Asp
 85 90 95
 Leu Gly Ile Ile Gly Glu Asn Val Leu Glu Glu Glu Leu Leu Thr Arg
 100 105 110
 Arg Ala Gln Gly Glu Asp Pro Arg Tyr Phe Thr Leu Arg Arg Leu Asp
 115 120 125
 Phe Gly Gly Cys Arg Leu Ser Leu Ala Thr Pro Val Asp Glu Ala Trp
 130 135 140
 Asp Gly Pro Ala Ala Leu Asn Gly Lys Arg Ile Ala Thr Ser Tyr Pro
 145 150 155 160
 His Leu Leu Lys Arg Tyr Leu Asp Gln Lys Gly Val Gln Phe Lys Ser
 165 170 175
 Cys Leu Leu Asn Gly Ser Val Glu Val Ala Pro Arg Ala Gly Leu Ala
 180 185 190
 Asp Ala Ile Cys Asp Leu Val Ser Thr Gly Ala Thr Leu Glu Ala Asn
 195 200 205
 Gly Leu Arg Glu Val Glu Val Ile Tyr Arg Ser Lys Ala Cys Leu Ile
 210 215 220
 Gln Arg Asp Gly Glu Met Ala Asp Ala Lys Gln His Leu Ile Asp Lys
 225 230 235 240
 Leu Leu Thr Arg Ile Gln Gly Val Ile Gln Ala Arg Glu Ser Lys Tyr
 245 250 255
 Ile Met Met His Ala Pro Thr Glu Arg Leu Glu Glu Val Ile Ala Leu
 260 265 270

Leu Pro Gly Ala Glu Arg Pro Thr Ile Leu Pro Leu Ala Gly Asp Gln
 275 280 285
 Gln Arg Val Ala Met His Met Val Ser Ser Glu Thr Leu Phe Trp Glu
 290 295 300
 Thr Met Glu Lys Leu Lys Ala Leu Gly Ala Ser Ser Ile Leu Val Leu
 305 310 315 320
 Pro Ile Glu Lys Met Met Glu
 325

<210> 7380

<211> 363

<212> PRT

<213> Enterobacter cloacae

<400> 7380

Arg Pro Glu Ser Gly Glu Ser Met Ser Gln Lys Tyr Leu Phe Ile Asp
 1 5 10 15
 Arg Asp Gly Thr Ile Ile Ser Glu Pro Pro Ser Asp Phe Gln Val Asp
 20 25 30
 Arg Phe Asp Lys Leu Ala Phe Glu Pro Asp Val Ile Pro Val Leu Leu
 35 40 45
 Lys Leu Gln Lys Ala Gly Tyr Lys Leu Val Met Ile Thr Asn Gln Asp
 50 55 60
 Gly Leu Gly Thr Asp Ser Phe Pro Gln Ala Asp Phe Asp Gly Pro His
 65 70 75 80
 Asn Leu Met Met Gln Val Leu Thr Ser Gln Gly Ile Ala Phe Asp Glu
 85 90 95
 Val Leu Ile Cys Pro His Met Pro Ala Asp Lys Cys Asp Cys Arg Lys
 100 105 110
 Pro Lys Leu Lys Leu Val Glu Arg Tyr Leu Ala Glu Glu Ala Leu Asp
 115 120 125
 Lys Ala Asn Ser Tyr Val Ile Gly Asp Arg Val Thr Asp Ile Thr Leu
 130 135 140
 Ala Glu Asn Met Gly Ile Ala Gly Leu Arg Tyr Asn Arg Asp Thr Leu
 145 150 155 160
 Asn Trp Ala Met Ile Gly Glu Gln Leu Thr Arg Arg Asp Arg Tyr Ser
 165 170 175
 His Val Glu Arg Asn Thr Lys Glu Thr Gln Ile Asp Val Lys Val Trp
 180 185 190
 Leu Asp Arg Glu Gly Gly Ser Lys Ile His Thr Gly Val Gly Phe Phe
 195 200 205
 Asp His Met Leu Asp Gln Ile Ala Thr His Gly Gly Phe Arg Met Glu
 210 215 220
 Ile Thr Val Lys Gly Asp Leu Tyr Ile Asp Asp His His Thr Val Glu
 225 230 235 240
 Asp Thr Gly Leu Ala Leu Gly Glu Ala Leu Lys Leu Ala Leu Gly Asp
 245 250 255
 Lys Arg Gly Ile Asn Arg Phe Gly Phe Val Leu Pro Met Asp Glu Cys
 260 265 270
 Leu Ala Arg Cys Ala Met Asp Ile Ser Gly Arg Pro His Leu Glu Tyr
 275 280 285
 Lys Ala Asp Phe Thr Tyr Gln Arg Val Gly Asp Leu Ser Thr Glu Met
 290 295 300
 Val Glu His Phe Phe Arg Ser Leu Ser Tyr Thr Met Gly Leu Thr Leu
 305 310 315 320
 His Leu Lys Thr Lys Gly Lys Asn Asp His His Arg Val Glu Ser Leu
 325 330 335
 Phe Lys Ala Phe Gly Arg Thr Leu Arg Gln Ala Ile Arg Val Glu Gly
 340 345 350
 Asp Ala Leu Pro Ser Ser Lys Gly Val Leu
 355 360

<210> 7381
 <211> 311
 <212> PRT
 <213> Enterobacter cloacae

<400> 7381
 Arg Gly Leu Arg Ala Leu Ser Ala Gly Gly Val Ser Val Leu Trp Arg
 1 5 10 15
 Tyr Arg Arg Pro Gly Gly Tyr Arg Arg Ser Ala Arg Asn Arg Cys Thr
 20 25 30
 Trp Arg Asp Arg Gly Ser Arg Ala Ala Gly Arg Gln Ile Tyr Gly Lys
 35 40 45
 Gly Gly Asp Ser Met Leu Ala Lys Arg Ile Ile Pro Cys Leu Asp Val
 50 55 60
 Arg Asp Gly Gln Val Val Lys Gly Val Gln Phe Arg Asn His Glu Ile
 65 70 75 80
 Ile Gly Asp Ile Val Pro Leu Ala Lys Arg Tyr Ala Glu Glu Gly Ala
 85 90 95
 Asp Glu Leu Val Phe Tyr Asp Ile Thr Ala Ser Ser Asp Gly Arg Val
 100 105 110
 Val Asp Lys Ser Trp Val Ala Arg Val Ala Glu Val Ile Asp Ile Pro
 115 120 125
 Phe Cys Val Ala Gly Gly Ile Lys Ser Ala Asp Asp Ala Ala Lys Ile
 130 135 140
 Leu Ser Phe Gly Ala Asp Lys Ile Ser Ile Asn Ser Pro Ala Leu Ala
 145 150 155 160
 Asp Pro Ala Leu Ile Thr Arg Leu Ala Asp Arg Phe Gly Val Gln Cys
 165 170 175
 Ile Val Val Gly Ile Asp Thr Trp Phe Asp Thr Ala Thr Gly Lys Tyr
 180 185 190
 His Val Asn Gln Tyr Thr Gly Asp Glu Ser Arg Thr Arg Val Thr Gln
 195 200 205
 Trp Glu Thr Leu Asp Trp Val Gln Glu Val Gln Lys Arg Gly Ala Gly
 210 215 220
 Glu Ile Val Leu Asn Met Met Asn Gln Asp Gly Val Arg Asn Gly Tyr
 225 230 235 240
 Asp Leu Glu Gln Leu Lys Lys Val Arg Ala Val Cys Gln Val Pro Leu
 245 250 255
 Ile Ala Ser Gly Gly Ala Gly Thr Met Glu His Phe Leu Gln Ala Phe
 260 265 270
 Arg Asp Ala Asn Val Asp Gly Ala Leu Ala Ala Ser Val Phe His Lys
 275 280 285
 Gln Ile Ile Asn Ile Gly Glu Leu Lys Thr Tyr Leu Ala Asp Gln Gly
 290 295 300
 Val Glu Ile Arg Val Cys
 305 310

<210> 7382
 <211> 380
 <212> PRT
 <213> Enterobacter cloacae

<400> 7382
 Asn Pro Gly Arg Arg Arg Thr Ser Asp Cys Pro Gln Lys Cys Arg Asp
 1 5 10 15
 Ala Ala Arg Cys Arg Pro Glu Gly Ala Ser Met Asn Ile Glu Glu Leu
 20 25 30
 Ala Arg Glu Asn Val Arg Arg Leu Thr Pro Tyr Gln Ser Ala Arg Arg
 35 40 45
 Leu Gly Gly Asn Gly Asp Val Trp Leu Asn Ala Asn Glu Tyr Pro Thr

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      50                      55                      60
Pro Val Ala Phe Glu Leu Ser Gln Gln Thr Leu Asn Arg Tyr Pro Glu
65                      70                      75                      80
Cys Gln Pro Lys Ala Val Ile Glu Asn Tyr Ala Gln Tyr Ala Gly Val
      85                      90                      95
Lys Pro Glu Gln Val Leu Val Ser Arg Gly Ala Asp Glu Gly Ile Glu
      100                      105                      110
Leu Leu Ile Arg Ala Phe Cys Glu Pro Gly Lys Asp Ala Val Met Tyr
      115                      120                      125
Cys Gln Pro Thr Tyr Gly Met Tyr Ser Val Ser Ala Glu Thr Phe Gly
      130                      135                      140
Val Ala Cys Arg Asn Val Gln Ala Leu Asp Asn Trp Gln Leu Asp Leu
145                      150                      155                      160
Gln Gly Ile Ala Asp Asn Leu Asp Gly Val Lys Val Val Phe Val Cys
      165                      170                      175
Ser Pro Asn Asn Pro Thr Gly Gln Ile Ile Asn Pro Gln Asp Ile Arg
      180                      185                      190
Ala Leu Leu Glu Met Thr Arg Gly Lys Ala Leu Val Val Ala Asp Glu
      195                      200                      205
Ala Tyr Ile Glu Phe Cys Pro Gln Ala Thr Leu Ala Gly Trp Leu Glu
      210                      215                      220
Glu Tyr Pro His Leu Val Val Leu Arg Thr Leu Ser Lys Ala Phe Ala
225                      230                      235                      240
Leu Ala Gly Leu Arg Cys Gly Phe Thr Leu Ala Asn Lys Ala Ile Ile
      245                      250                      255
Asp Leu Leu Leu Lys Val Ile Ala Pro Tyr Pro Leu Ser Thr Pro Val
      260                      265                      270
Ala Asp Ile Ala Ala Gln Ala Leu Ala Pro Gln Gly Ile Ser Ala Met
      275                      280                      285
Arg Glu Arg Val Ala Gln Ile Leu Glu Glu Arg Gln Tyr Leu Val Asp
      290                      295                      300
Ala Leu Lys Thr Ile Pro Cys Val Glu Lys Val Phe Asp Ser Glu Thr
305                      310                      315                      320
Asn Tyr Ile Leu Val Arg Phe Thr Ala Ser Ser Ala Ile Phe Lys Ser
      325                      330                      335
Leu Trp Asp Gln Gly Ile Ile Leu Arg Asp Gln Asn Lys Gln Pro Thr
      340                      345                      350
Leu Ser Gly Cys Leu Arg Ile Thr Val Gly Thr Arg Ala Glu Ser Gln
      355                      360                      365
Arg Val Ile Asp Ala Leu Lys Ala Glu Lys Val
      370                      375                      380

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<210> 7383

<211> 272

<212> PRT

<213> Enterobacter cloacae

<400> 7383

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Leu Leu Arg Arg Ala Val Ser Pro Gly Thr Leu Arg Cys Arg Arg Cys
1                      5                      10                      15
Ala Thr Ala Glu Lys Phe Pro Gly Asp Val Met Ile Ile Pro Ala Leu
      20                      25                      30
Asp Leu Ile Asp Gly Thr Val Val Arg Leu His Gln Gly Asp Tyr Gly
      35                      40                      45
Gln Gln Arg Asp Tyr Gly Asn Asp Pro Leu Pro Arg Leu Gln Ala Tyr
      50                      55                      60
Ala Ala Glu Gly Ala Glu Val Leu His Leu Val Asp Leu Thr Gly Ala
      65                      70                      75                      80
Lys Asp Pro Ala Lys Arg Gln Ile Pro Leu Leu Lys Thr Leu Val Ala
      85                      90                      95
Gly Val Asp Val Pro Val Gln Val Gly Gly Gly Val Arg Thr Glu Ala

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	100		105		110										
Asp	Val	Ala	Leu	Leu	Asp	Ala	Gly	Val	Ala	Arg	Val	Val	Val	Gly	
	115		120		125										
Ser	Thr	Ala	Val	Lys	Asp	Pro	Glu	Ser	Val	Lys	Gly	Trp	Phe	Arg	Arg
	130		135		140										
Phe	Gly	Ala	Asp	Ala	Leu	Val	Leu	Ala	Leu	Asp	Val	Arg	Ile	Asp	Glu
145			150		155					155					160
Gln	Gly	Asn	Lys	Gln	Val	Ala	Val	Ser	Gly	Trp	Gln	Glu	Asn	Ser	Gly
			165		170										175
Val	Thr	Leu	Glu	Leu	Val	Gly	Met	Tyr	Leu	Pro	Val	Gly	Leu	Lys	
			180		185										
His	Val	Leu	Cys	Thr	Asp	Ile	Ser	Arg	Asp	Gly	Thr	Leu	Ala	Gly	Ser
	195		200		205										
Asn	Val	Ser	Leu	Tyr	Glu	Glu	Val	Cys	Ala	Arg	Tyr	Pro	Gln	Val	Ala
	210		215		220										
Phe	Gln	Ser	Ser	Gly	Gly	Ile	Gly	Asp	Leu	Ala	Asp	Ile	Ala	Ala	Leu
225			230		235										240
Arg	Gly	Thr	Gly	Val	Arg	Gly	Val	Ile	Val	Gly	Arg	Ala	Leu	Leu	Glu
			245		250										255
Gly	Lys	Phe	Thr	Val	Lys	Glu	Ala	Ile	Gln	Cys	Trp	Gln	Asn	Gly	
	260		265		270										

<210> 7384

<211> 110

<212> PRT

<213> Enterobacter cloacae

<400> 7384

Arg	Ile	Thr	Ala	Gly	Gly	Cys	Thr	Ala	Cys	Arg	Phe	Arg	Arg	Ser	Ala
1			5						10					15	
Asp	Ala	Gly	Ile	His	Glu	Pro	Gly	Gly	Thr	Asp	Lys	Asn	Ala	Arg	Gln
			20				25						30		
Arg	Gln	Gly	Asn	Val	Phe	Leu	Ala	His	Gln	Thr	Ala	Pro	Val	Asp	Glu
			35				40					45			
Arg	Gly	Asn	Leu	Gly	Ser	Leu	Pro	Glu	Cys	Gly	Gln	His	Tyr	Ala	Arg
	50				55					60					
Leu	Arg	Gln	Arg	His	Pro	Ala	Gly	Ala	Gly	Gln	Pro	Asp	Trp	Ala	Tyr
65				70					75						80
Leu	Pro	Gln	Arg	His	Gln	Gln	Leu	Leu	Arg	Arg	Asp	Glu	Pro	Pro	Val
			85				90						95		
Ala	Val	Pro	Leu	Ser	Ala	Gly	Thr	Ala	Ala	Gly	Arg	Ala			
			100				105						110		

<210> 7385

<211> 339

<212> PRT

<213> Enterobacter cloacae

<400> 7385

Met	Arg	Glu	Ala	Met	Lys	Phe	Leu	Val	Thr	Gly	Ala	Ala	Gly	Phe	Ile
1			5						10					15	
Gly	Ser	His	Val	Ser	Lys	Arg	Leu	Leu	Asp	Ala	Gly	His	Glu	Val	Val
			20				25						30		
Gly	Ile	Asp	Asn	Leu	Asn	Asp	Tyr	Tyr	Asp	Pro	Asn	Leu	Lys	Leu	Ala
			35				40					45			
Arg	Leu	Glu	Leu	Leu	Lys	Ser	Glu	Ser	Phe	Thr	Phe	His	Lys	Leu	Asp
	50				55					60					
Leu	Ala	Asp	Arg	Lys	Gly	Met	Ala	Val	Leu	Phe	Ala	Asn	Glu	Lys	Phe
65				70					75						80
Asp	Arg	Val	Ile	His	Leu	Ala	Ala	Gln	Ala	Gly	Val	Arg	Tyr	Ser	Leu
			85				90							95	

Glu Asn Pro His Ala Tyr Ala Asp Ala Asn Leu Val Gly His Leu Asn
 100 105 110
 Val Leu Glu Gly Cys Arg His Asn Lys Val Gln His Leu Leu Tyr Ala
 115 120 125
 Ser Ser Ser Ser Val Tyr Gly Leu Asn Arg Lys Met Pro Phe Ser Thr
 130 135 140
 Asp Asp Ser Val Asp His Pro Val Ser Leu Tyr Ala Ala Thr Lys Lys
 145 150 155 160
 Ala Asn Glu Leu Met Ser His Thr Tyr Ser His Leu Tyr Asn Leu Pro
 165 170 175
 Thr Thr Gly Leu Arg Phe Phe Thr Val Tyr Gly Pro Trp Gly Arg Pro
 180 185 190
 Asp Met Ala Leu Phe Lys Phe Thr Lys Ala Met Ile Glu Gly Asn Ser
 195 200 205
 Ile Asp Val Tyr Asn Tyr Gly Lys Met Lys Arg Asp Phe Thr Tyr Ile
 210 215 220
 Asp Asp Ile Ala Glu Ala Ile Ile Arg Leu Gln Asp Val Ile Pro Gln
 225 230 235 240
 Ala Asp Ala Asp Trp Thr Val Glu Thr Gly Ser Pro Ala Thr Ser Ser
 245 250 255
 Ala Pro Tyr Arg Val Tyr Asn Ile Gly Asn Ser Ser Pro Val Glu Leu
 260 265 270
 Met Asp Tyr Ile Thr Ala Leu Glu Glu Ala Leu Gly Lys Glu Ala Val
 275 280 285
 Lys Asn Met Met Pro Ile Gln Pro Gly Asp Val Leu Glu Thr Ser Ala
 290 295 300
 Asp Thr Lys Ala Leu Tyr Asp Val Ile Gly Phe Lys Pro Gln Thr Ser
 305 310 315 320
 Val Lys Glu Gly Val Lys Asn Phe Val Asp Trp Tyr Arg Asn Phe Tyr
 325 330 335
 Asn Val

<210> 7386

<211> 442

<212> PRT

<213> Enterobacter cloacae

<400> 7386

Glu Asp Asp Gly Val Thr Thr Met Ser Phe Asn Thr Ile Ile Asp Trp
 1 5 10 15
 Asn Thr Cys Ser Asp Ala Gln Gln Arg Glu Leu Leu Met Arg Pro Ala
 20 25 30
 Ile Ser Ala Ser Glu Ser Ile Thr Arg Thr Val Ala Glu Ile Leu Asp
 35 40 45
 Asn Val Lys Ala Arg Gly Asp Asp Ala Leu Arg Glu Tyr Ser Ala Lys
 50 55 60
 Phe Asp Lys Thr Glu Val Gly Ala Leu Gln Val Thr Glu Gln Glu Ile
 65 70 75 80
 Ile Asp Ala Ser Asn Arg Leu Gly Asp Asp Ile Lys Gln Ala Met Ala
 85 90 95
 Val Ala Val Lys Asn Ile Asp Thr Phe His Thr Ala Gln Lys Leu Gln
 100 105 110
 Ala Val Asp Val Glu Thr Leu Pro Gly Val Arg Cys Gln Gln Val Thr
 115 120 125
 Arg Pro Val Ala Ser Val Gly Leu Tyr Ile Pro Gly Gly Ser Ala Pro
 130 135 140
 Leu Phe Ser Thr Val Leu Met Leu Ala Thr Pro Ala Arg Ile Ala Gly
 145 150 155 160
 Cys Gln Lys Val Val Leu Cys Ser Pro Pro Pro Ile Ala Asp Glu Ile
 165 170 175

Leu Tyr Ala Ala Lys Leu Cys Gly Val Gln Ala Ile Tyr Lys Val Gly
 180 185 190
 Gly Ala Gln Ala Ile Ser Ala Leu Ala Phe Gly Thr Val Ser Ile Pro
 195 200 205
 Lys Val Asp Lys Ile Phe Gly Pro Gly Asn Ala Tyr Val Thr Glu Ala
 210 215 220
 Lys Arg Gln Val Ser Gln Arg Leu Asp Gly Ala Ala Ile Asp Met Pro
 225 230 235 240
 Ala Gly Pro Ser Glu Val Leu Val Ile Ala Asp Ser Gly Ala Thr Pro
 245 250 255
 Asp Phe Val Ala Ser Asp Leu Leu Ser Gln Ala Glu His Gly Pro Asp
 260 265 270
 Ser Gln Val Ile Leu Leu Thr Pro Asp Ala Asp Met Ala Lys Arg Val
 275 280 285
 Gly Asp Ala Val Glu Arg Gln Leu Ala Asp Leu Pro Arg Ala Glu Thr
 290 295 300
 Ala Arg Gln Ala Leu Leu Ala Ser Arg Leu Ile Val Ala Arg Asp Leu
 305 310 315 320
 Asp Gln Cys Ile Ala Ile Ser Asn Gln Tyr Gly Pro Glu His Leu Ile
 325 330 335
 Ile Gln Thr Arg Asn Ala Arg Asp Leu Val Asp Ser Ile Thr Ser Ala
 340 345 350
 Gly Ser Val Phe Leu Gly Asp Trp Ser Pro Glu Ser Ala Gly Asp Tyr
 355 360 365
 Ala Ser Gly Thr Asn His Val Leu Pro Thr Tyr Gly Tyr Thr Ser Thr
 370 375 380
 Cys Ser Ser Leu Gly Leu Ala Asp Phe Gln Lys Arg Met Thr Val Gln
 385 390 395 400
 Glu Leu Ser Arg Glu Gly Phe Ala Ser Leu Ala Ser Thr Ile Glu Thr
 405 410 415
 Leu Ala Ala Ala Glu Arg Leu Thr Ala His Lys Asn Ala Val Thr Leu
 420 425 430
 Arg Val Ala Ala Leu Lys Glu Gln Ala
 435 440

<210> 7387

<211> 207

<212> PRT

<213> Enterobacter cloacae

<400> 7387

Arg Pro Ala Leu Val Glu Arg Ser Ala Val Met Asn Val Val Ile Leu
 1 5 10 15
 Asp Thr Gly Cys Ala Asn Leu Asn Ser Val Gln Ser Ala Ile Met Arg
 20 25 30
 His Gly Tyr Glu Pro Val Val Ser Arg Asp Pro Asp Val Val Leu Arg
 35 40 45
 Ala Asp Lys Leu Phe Leu Pro Gly Val Gly Thr Ala Gln Ala Ala Met
 50 55 60
 Asp Gln Ile His Glu Arg Glu Leu Val Asp Leu Ile Lys Ala Cys Thr
 65 70 75 80
 Gln Pro Val Leu Gly Ile Cys Leu Gly Met Gln Leu Leu Gly Arg Arg
 85 90 95
 Ser Glu Glu Ser Asn Gly Val Asp Leu Leu Gly Ile Ile Glu Glu Asp
 100 105 110
 Val Pro Lys Met Thr Asp His Gly Leu Pro Leu Pro His Met Gly Trp
 115 120 125
 Asn Arg Val Tyr Pro Lys Ala Gly Asn Arg Leu Phe Gln Gly Ile Glu
 130 135 140
 Asp Gly Ala Tyr Phe Tyr Phe Val His Ser Tyr Ala Met Pro Val Asn
 145 150 155 160

Thr Tyr Thr Ile Ala Gln Cys Asn Tyr Gly Glu Ala Phe Thr Ala Ala
 165 170 175
 Val Gln Lys Asp Asn Phe Tyr Gly Val Gln Phe His Pro Glu Arg Ser
 180 185 190
 Gly Ala Ala Gly Ala Gln Leu Leu Lys Asn Phe Leu Glu Met
 195 200 205

<210> 7388

<211> 218

<212> PRT

<213> Enterobacter cloacae

<400> 7388

Val Lys Asn Val Pro Gly Arg Pro Gly Arg Gly Asp Gln Gly Met Leu
 1 5 10 15
 Thr Glu Gln Gln Gln Ala Gln Leu Asp Trp Glu Lys Thr Asp Gly Leu
 20 25 30
 Leu Pro Val Val Val Gln His Ala Val Ser Gly Glu Val Leu Met Leu
 35 40 45
 Gly Tyr Met Asn Gln Glu Ala Leu Thr Lys Thr Leu Asp Ser Gly Lys
 50 55 60
 Val Thr Phe Phe Ser Arg Thr Lys Gln Arg Leu Trp Thr Lys Gly Glu
 65 70 75 80
 Thr Ser Gly His Phe Leu Asn Val Val Ser Ile Thr Pro Asp Cys Asp
 85 90 95
 Asn Asp Thr Leu Leu Val Leu Val Asn Pro Ile Gly Pro Thr Cys His
 100 105 110
 Lys Gly Thr Ser Ser Cys Phe Gly Glu Thr Ser His Gln Trp Leu Phe
 115 120 125
 Leu Tyr Gln Leu Glu Gln Leu Ala Glu Arg Lys Ser Ala Asp Pro
 130 135 140
 Glu Ser Ser Tyr Thr Ala Lys Leu Tyr Ala Ser Gly Thr Lys Arg Ile
 145 150 155 160
 Ala Gln Lys Val Gly Glu Glu Gly Val Glu Thr Ala Leu Ala Ala Thr
 165 170 175
 Val His Asp Arg Glu Glu Leu Thr Asn Glu Ala Ser Asp Leu Met Tyr
 180 185 190
 His Leu Leu Val Leu Leu Gln Asp Gln Glu Leu Asp Leu Thr Thr Val
 195 200 205
 Ile Glu Asn Leu Arg Lys Arg His Lys
 210 215

<210> 7389

<211> 177

<212> PRT

<213> Enterobacter cloacae

<400> 7389

Val Ser Val Ile Trp Tyr Leu Leu Asn Ser Ala Ser Thr Leu Glu Arg
 1 5 10 15
 Leu Tyr Phe Pro Lys Val Gln His Ala Thr Asp Lys Met Ser Lys Ala
 20 25 30
 Glu Ser Glu Tyr Gln Asp Ala Val Glu Ser Arg Ser Val Leu Ile Asn
 35 40 45
 Gln Lys Thr Ala Glu Tyr Leu Ala Asn Pro Ser Glu Arg His Gly Phe
 50 55 60
 Ile Val Lys Gln Val Tyr Pro Thr Asn Gln Gln Gln Val Ile Gln Ser
 65 70 75 80
 Met Ala Glu Gln Gly Tyr Met Val His Arg Val Ser Val Gly Met Val
 85 90 95
 Thr Phe Ile Arg Met Pro Lys Asn Ala Lys Asp Asn Pro Leu Gln Glu

			100					105					110				
Ile	Thr	Asp	Lys	Ala	Lys	Ala	Glu	Ala	Glu	Ser	Thr	Ile	Asp	Lys	Met		
		115					120					125					
Ile	Glu	Arg	Leu	Lys	Val	Arg	Ala	Gly	Glu	Ala	Val	His	Gln	Arg	Asn		
	130					135					140						
Lys	Ile	Val	Thr	Glu	Ala	Arg	Lys	Ala	Leu	Asp	Ser	Ile	Lys	Ser	Phe		
145					150					155					160		
Glu	Ser	Tyr	Leu	Asn	Val	Ile	Val	Thr	Asp	Ser	Glu	Glu	Val	Thr	Glu		
			165						170					175			

<210> 7390

<211> 853

<212> PRT

<213> Enterobacter cloacae

<400> 7390

Asn	Arg	Gly	Gln	Asn	Cys	Arg	Ser	Ala	Val	Phe	Pro	Gln	Pro	Arg	Ala		
1			5						10					15			
Arg	His	His	Ala	Asp	Ser	Gly	Tyr	Pro	Arg	Pro	Ala	Ala	Gly	Arg	Pro		
		20					25					30					
Leu	Arg	Pro	Pro	Pro	Ala	Ala	Gly	Glu	Arg	Tyr	Ser	Ser	Gly	Gly	Ser		
	35					40					45						
Met	Ile	Ala	Arg	Trp	Phe	Trp	Arg	Glu	Trp	Arg	Ser	Pro	Ser	Leu	Leu		
	50				55					60							
Ile	Val	Trp	Leu	Ala	Leu	Ser	Leu	Ala	Val	Ala	Cys	Val	Leu	Ala	Leu		
65					70				75					80			
Gly	Ser	Val	Ser	Asp	Arg	Met	Glu	Lys	Gly	Leu	Ser	Gln	Gln	Ser	Arg		
			85					90					95				
Glu	Phe	Met	Ala	Gly	Asp	Arg	Ala	Leu	Gln	Ser	Ser	Arg	Pro	Val	Pro		
		100					105					110					
Pro	Gly	Trp	Ile	Glu	Glu	Ala	Arg	Lys	Glu	Gly	Leu	Lys	Val	Gly	Glu		
	115					120					125						
Gln	Ile	Thr	Phe	Gln	Thr	Met	Thr	Phe	Ala	Gly	Asp	Thr	Pro	Gln	Leu		
	130				135						140						
Ala	Ser	Val	Lys	Ala	Val	Asp	Asp	Ile	Tyr	Pro	Met	Tyr	Gly	Asp	Leu		
145					150				155						160		
Gln	Thr	Ser	Pro	Pro	Gly	Leu	Lys	Pro	Thr	Ala	Gly	Thr	Val	Leu	Leu		
			165					170						175			
Ala	Ser	Arg	Leu	Met	Ala	Leu	Leu	Asn	Leu	Lys	Pro	Gly	Asp	Ser	Ile		
	180							185				190					
Asp	Val	Gly	Asp	Ala	Thr	Leu	Lys	Ile	Ala	Gly	Glu	Val	Val	Gln	Glu		
	195					200					205						
Pro	Asp	Ser	Gly	Phe	Asn	Pro	Phe	Gln	Leu	Ala	Pro	Arg	Leu	Leu	Met		
	210				215						220						
Asn	Thr	Ala	Asp	Val	Ala	Lys	Thr	His	Ala	Val	Gln	Pro	Gly	Ser	Arg		
225					230					235					240		
Val	Thr	Trp	Arg	Tyr	Lys	Phe	Gly	Gly	Thr	Pro	Ala	Gln	Leu	Glu	Ala		
			245					250						255			
Tyr	Glu	Lys	Trp	Leu	Leu	Pro	Gln	Leu	Lys	Pro	Glu	His	Arg	Trp	Tyr		
	260						265						270				
Gly	Leu	Glu	Gln	Asp	Asp	Gly	Ala	Leu	Gly	Lys	Ser	Leu	Glu	Arg	Ser		
	275					280						285					
Gln	Gln	Phe	Leu	Leu	Leu	Ser	Ala	Leu	Leu	Thr	Leu	Leu	Leu	Ala	Ile		
	290					295					300						
Ala	Ala	Val	Ala	Val	Ala	Met	Gly	His	Tyr	Cys	Arg	Ser	Arg	Tyr	Asp		
305					310					315					320		
Leu	Val	Ala	Ile	Leu	Lys	Thr	Leu	Gly	Ala	Gly	Arg	Ala	Gln	Leu	Arg		
			325					330						335			
Lys	Leu	Ile	Val	Gly	Gln	Trp	Leu	Met	Val	Leu	Ala	Leu	Ser	Ala	Leu		

			340					345					350			
Thr	Gly	Gly	Ala	Ile	Gly	Leu	Leu	Phe	Glu	Lys	Leu	Leu	Met	Val	Leu	
		355					360					365				
Leu	Lys	Pro	Val	Leu	Pro	Ala	Ala	Leu	Pro	Pro	Ala	Ser	Leu	Trp	Pro	
	370					375					380					
Trp	Leu	Trp	Ala	Ile	Gly	Ala	Met	Thr	Thr	Ile	Ser	Leu	Leu	Val	Gly	
385					390					395					400	
Leu	Arg	Pro	Tyr	Arg	Leu	Leu	Leu	Ala	Thr	Gln	Pro	Leu	Arg	Val	Leu	
				405					410					415		
Arg	Arg	Asp	Val	Ala	Ser	Val	Trp	Pro	Leu	Lys	Phe	Tyr	Leu	Pro		
			420				425					430				
Val	Ile	Ile	Ala	Val	Ala	Val	Gly	Leu	Leu	Ala	Trp	Leu	Met	Gly	Gly	
		435					440					445				
Ser	Thr	Leu	Leu	Trp	Ala	Val	Leu	Ala	Gly	Ala	Val	Val	Leu	Ala	Leu	
	450					455					460					
Leu	Cys	Gly	Val	Val	Gly	Trp	Ile	Leu	Leu	Asn	Val	Leu	Arg	Lys	Leu	
465					470					475					480	
Thr	Val	Lys	Ser	Leu	Pro	Ile	Arg	Leu	Ala	Val	Asn	Arg	Leu	Leu	His	
				485					490					495		
Gln	Pro	Trp	Ser	Thr	Leu	Ser	Gln	Leu	Ser	Ala	Phe	Ser	Leu	Ser	Phe	
			500					505					510			
Met	Leu	Leu	Ala	Leu	Leu	Leu	Val	Leu	Arg	Gly	Asp	Leu	Leu	Asp	Arg	
		515					520					525				
Trp	Gln	Gln	Gln	Leu	Pro	Pro	Glu	Ser	Pro	Asn	Tyr	Phe	Leu	Ile	Asn	
	530					535					540					
Ile	Ala	Pro	Glu	Gln	Val	Thr	Pro	Leu	Lys	Gly	Phe	Leu	Ser	Glu	His	
545					550					555					560	
His	Ile	Ile	Pro	Glu	Ser	Phe	Tyr	Pro	Ile	Val	Arg	Ala	Arg	Leu	Thr	
				565					570					575		
Gln	Ile	Asn	Gly	Gln	Ser	Thr	Glu	Gly	Asn	Lys	Asp	Glu	Ser	Leu	Asn	
			580					585					590			
Arg	Glu	Leu	Asn	Leu	Thr	Trp	Gln	Ala	Lys	Arg	Pro	Asp	His	Asn	Pro	
		595					600					605				
Ile	Val	Ala	Gly	Thr	Trp	Pro	Pro	Lys	Ala	Gly	Glu	Val	Ser	Met	Glu	
	610					615					620					
Glu	Gly	Leu	Ala	Thr	Arg	Leu	Asn	Val	Asn	Leu	Gly	Asp	Ser	Val	Thr	
625					630					635					640	
Phe	Thr	Gly	Asp	Thr	Gln	Asp	Phe	Thr	Ala	Lys	Val	Thr	Ser	Leu	Arg	
				645					650					655		
Lys	Val	Asp	Trp	Glu	Ser	Leu	Arg	Pro	Asn	Phe	Phe	Phe	Ile	Phe	Pro	
			660					665					670			
Pro	Gly	Ala	Leu	Asp	Gly	Gln	Pro	Gln	Ser	Trp	Leu	Thr	Ser	Phe	Arg	
		675														

Gly Gly Trp Leu Gly Ser Arg Leu Leu Lys Gly Lys Ala Leu Phe Arg
 835 840 845
 Gln Phe Val Ser
 850

<210> 7391

<211> 245

<212> PRT

<213> Enterobacter cloacae

<400> 7391

Arg Cys Val Ala Glu Arg Ile Met Leu Lys Ala Leu Leu Ile Thr Ala
 1 5 10 15
 Val Asn Gly Ile Gly Met Asn Asn Lys Lys Asn Leu Leu Asp Ile Arg
 20 25 30
 Asp Val Gly Phe Arg Val Gly Asp Asn Thr Ile Leu Gln His Val Asp
 35 40 45
 Phe Cys Leu Ser Pro Gly Glu Phe Lys Leu Ile Thr Gly Pro Ser Gly
 50 55 60
 Cys Gly Lys Ser Thr Leu Leu Lys Ile Val Ala Ser Leu Leu Ser Pro
 65 70 75 80
 Thr Glu Gly Thr Ile Leu Phe Ala Gly Lys Asp Ile Ala Thr Phe Ser
 85 90 95
 Ser Glu Ser Tyr Arg Gln Gln Val Ser Tyr Cys Val Gln Thr Pro Ser
 100 105 110
 Leu Phe Gly Asp Thr Val Tyr Asp Asn Leu Val Phe Pro Trp His Ile
 115 120 125
 Arg Asn Gln Thr Pro Asp Pro Lys Lys Phe Thr Asp Asp Leu Thr Arg
 130 135 140
 Phe Gly Leu Ser Pro Glu Thr Leu Thr Lys Ser Ile Ala Glu Leu Ser
 145 150 155 160
 Gly Gly Glu Lys Gln Arg Val Ser Leu Ile Arg Asn Leu Gln Phe Leu
 165 170 175
 Pro Lys Ala Leu Leu Leu Asp Glu Ile Thr Ser Ala Leu Asp Asp Ala
 180 185 190
 Asn Lys Arg Asn Val Asn Asp Ile Ile His Arg Tyr Ala Arg Glu Gln
 195 200 205
 Asn Ile Ala Val Leu Trp Val Thr His Asp Ser Asn Glu Ile Thr His
 210 215 220
 Ala Asp Asp Val Ile Thr Leu Arg Pro Gln Gly Gly Lys Met Glu Glu
 225 230 235 240
 Ala His Arg Gly
 245

<210> 7392

<211> 247

<212> PRT

<213> Enterobacter cloacae

<400> 7392

Arg Val Arg Ser Arg Arg Ala Glu Gly His Gln His Gln Lys Gln Glu
 1 5 10 15
 Gly Gln Met Pro Ala Glu Asn Ile Val Glu Val His Arg Leu Lys Lys
 20 25 30
 Ser Val Gly Gln Gly Glu His Glu Leu Ser Ile Leu Thr Gly Val Glu
 35 40 45
 Leu Val Val Lys Arg Ala Glu Thr Ile Ala Leu Ile Gly Glu Ser Gly
 50 55 60
 Ser Gly Lys Ser Thr Leu Leu Ala Ile Leu Ala Gly Leu Asp Asp Gly
 65 70 75 80
 Ser Ser Gly Glu Val Asn Leu Val Gly Gln Pro Leu His Ala Leu Asp

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<210> 7393
<211> 214
<212> PRT
<213> Enterobacter cloacae
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```
<210> 7394
<211> 288
<212> PRT
<213> Enterobacter cloacae
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<400> 7394

```

Arg Met Ile Gln Met Lys Leu Pro Met Arg Met Met Ser Ser Arg Ser
1          5          10          15
Gly Arg Arg Ala Gly Lys Trp Arg Arg Leu Thr Val Gly Glu His Asn
20          25          30
Ile Thr Asn Glu Ser Leu Ala Leu Ser Met Val Leu Val Leu Val Ala
35          40          45
Ile Val Val Ser Tyr Arg Glu Lys Leu Gly Leu Glu Lys Asp Ile Leu
50          55          60
Trp Ser Ile Ala Arg Ala Val Ile Gln Leu Ile Ile Val Gly Tyr Val
65          70          75          80
Leu Lys Tyr Ile Phe Asn Val Asn His Ala Val Leu Thr Leu Leu Met
85          90          95
Val Leu Phe Ile Cys Phe Asn Ala Ala Trp Asn Ala Gln Lys Arg Ser
100         105         110
Lys Tyr Ile Asp Lys Ala Phe Ile Ser Ser Leu Ile Ala Ile Thr Thr
115         120         125
Gly Thr Ala Leu Thr Leu Ala Val Leu Val Leu Ser Gly Ser Ile Glu
130         135         140
Phe Thr Pro Met Gln Val Ile Pro Ile Ser Gly Met Ile Ala Gly Asn
145         150         155         160
Ala Met Val Ala Val Gly Leu Cys Tyr Asn Asn Leu Gly Gln Arg Phe
165         170         175
Ser Ser Glu Gln Gln Gln Leu Gln Glu Lys Leu Ser Leu Gly Ala Thr
180         185         190
Pro Lys Val Ala Ser Ala Arg Leu Ile Arg Asp Ser Ile Arg Ser Ser
195         200         205
Leu Ile Pro Thr Val Asp Ser Ala Lys Thr Val Gly Leu Val Ser Leu
210         215         220
Pro Gly Met Met Ser Gly Leu Ile Phe Ala Gly Ile Asp Pro Val Lys
225         230         235         240
Ala Ile Lys Tyr Gln Ile Met Val Thr Phe Met Leu Leu Ser Thr Ala
245         250         255
Ser Leu Ser Thr Ile Ile Ala Cys Tyr Leu Thr Tyr Arg Lys Phe Tyr
260         265         270
Asn Ala Arg His Gln Leu Val Val Thr Gln Leu Lys Lys Thr Gly
275         280         285

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<210> 7395

<211> 389

<212> PRT

<213> Enterobacter cloacae

<400> 7395

```

Arg Val Tyr Gln Gly Lys Arg Met Thr Ile Arg Lys Thr Ala Leu Ala
1          5          10          15
Thr Thr Ile Gly Ala Ala Val Ala Leu Ala Ser Phe Ala Ser Gln Ala
20          25          30
Glu Ile Thr Leu Leu Lys Gln Asp Pro Gln Ala Gly Asn Pro Leu Ser
35          40          45
Arg Leu Asn Phe Thr Val Gly Gly Ser Ile Arg Pro Gln Phe Gln Asn
50          55          60
Met Thr Gly Asp Asp Gly Lys Asn Gly Tyr Lys Arg Asn Gly Phe Asp
65          70          75          80
Gly Gly Thr Arg Phe Arg Phe Ala Ala Asp Tyr Tyr Leu Phe Asp Asp
85          90          95
Ile Ser Trp Ile Thr Tyr Tyr Glu Leu Gly Val Asn Ile Pro Ala Gln
100         105         110
Phe Asn Trp Asp Asn His Tyr Ala Asp Gly Ala His Asp Thr Ser Arg
115         120         125

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Arg Met Leu Tyr Thr Gly Leu Lys Ser Asp Thr Trp Gly Thr Leu Thr
 130 135 140
 Phe Gly Gln Gln Asn Ser Val Tyr Tyr Asp Val Val Gly Ala Lys Thr
 145 150 155 160
 Asp Ile Trp Asp Tyr Asp Met Ile Gly Gln Ala Pro Gly Asn Gly Ile
 165 170 175
 Asn Gly Asp Tyr Asp Gly Ser Tyr Arg Ser Arg Gln Met Leu Lys Tyr
 180 185 190
 Lys Lys Thr Val Gly Asp Ala Asp Ile Tyr Ala Ser Tyr Leu Phe Glu
 195 200 205
 Asp Ser Glu Tyr Leu Pro Gly Asn Gly Leu Arg Tyr Lys Arg Lys Gly
 210 215 220
 Gly Gly Ser Leu Gly Ile Asp Tyr His Leu Thr Thr Asp Leu Thr Trp
 225 230 235 240
 Gly Ala Ala Trp Asn Tyr Thr Arg Ala Asp Met Arg Asn Pro Asp Asn
 245 250 255
 Gly Asp Ser Lys Ser Tyr Asp Gln Asn Ile Leu Gly Thr Ala Leu Ser
 260 265 270
 Trp Thr Pro Asp Asn Trp Thr Phe Ser Ala Gly Gly Gly Trp Tyr Gln
 275 280 285
 Asn Phe Leu Thr Thr Lys Lys Val Ser Val Asn Asp Tyr Phe Ala Gly
 290 295 300
 Asp Ala Trp Gly Ile Glu Tyr Phe Ala Gly Tyr Lys Phe Pro Val Gly
 305 310 315 320
 Gln Tyr Ala Val Lys Ser Ile Gln Pro Tyr Phe Met Gly Asp Arg Ile
 325 330 335
 Glu Tyr Val Asn Gly Arg Asn Tyr Gln Arg Ile Asp Asn Gly Val Gly
 340 345 350
 Ile Ser Phe Gln Leu Asp Tyr Gly Phe Arg Val Asp Tyr Glu His Val
 355 360 365
 Phe Thr Ser Cys Thr Asp Asn Leu Gly Asp Met Asn Leu Val Arg Leu
 370 375 380
 Arg Tyr Asp Phe
 385

<210> 7396

<211> 527

<212> PRT

<213> Enterobacter cloacae

<400> 7396

Leu Val Trp Lys Val Thr Ile Phe Ala Ser Cys Ser Val Ile Val Val
 1 5 10 15
 Arg Arg Pro Val Leu Gly Ser His Ile Gly Ala Cys Tyr Ser Ile Thr
 20 25 30
 Thr Gly His Asp His Leu Ala Leu Cys Ala Asp Arg Thr Pro Asn Tyr
 35 40 45
 Gly Tyr Tyr Lys Glu Gln Thr Ile His Thr Arg Val Tyr Met Glu Ser
 50 55 60
 Ser Met Leu Lys Ile Phe Asn Thr Met Thr Arg Gln Lys Glu Glu Phe
 65 70 75 80
 Lys Pro Ile His Ala Gly Glu Val Gly Met Tyr Val Cys Gly Ile Thr
 85 90 95
 Val Tyr Asp Leu Cys His Ile Gly His Gly Arg Thr Phe Val Ala Phe
 100 105 110
 Asp Val Val Ser Arg Tyr Leu Arg Phe Leu Gly Tyr Asn Leu Lys Tyr
 115 120 125
 Val Arg Asn Ile Thr Asp Ile Asp Asp Lys Ile Ile Lys Arg Ala Asn
 130 135 140
 Glu Asn Gly Glu Ser Phe Val Ala Leu Val Asp Arg Met Ile Ala Glu
 145 150 155 160

Met His Lys Asp Phe Asp Ala Leu Asn Ile Leu Arg Pro Asp Ser Glu
 165 170 175
 Pro Arg Ala Thr His His Ile His Glu Ile Ile Asp Ile Thr Gln Lys
 180 185 190
 Leu Ile Glu Arg Gly His Ala Tyr Val Ala Asp Asn Gly Asp Val Met
 195 200 205
 Phe Ser Val Pro Thr Asp Pro Thr Tyr Gly Ala Leu Ser Arg Gln Asp
 210 215 220
 Leu Asp Gln Leu Gln Ala Gly Ala Arg Val Asp Val Val Asp Val Lys
 225 230 235 240
 Arg Asn Pro Met Asp Phe Val Leu Trp Lys Met Ser Lys Ala Gly Glu
 245 250 255
 Pro Ser Trp Pro Ser Pro Trp Gly Glu Gly Arg Pro Gly Trp His Ile
 260 265 270
 Glu Cys Ser Ala Met Asn Cys Lys Gln Leu Gly Asn His Phe Asp Ile
 275 280 285
 His Gly Gly Gly Ser Asp Leu Met Phe Pro His His Glu Asn Glu Ile
 290 295 300
 Ala Gln Ser Thr Cys Ala His Gly Gly Glu Tyr Val Asn Tyr Trp Met
 305 310 315 320
 His Ser Gly Met Val Met Val Asp Arg Glu Lys Met Ser Lys Ser Leu
 325 330 335
 Gly Asn Phe Phe Thr Val Arg Asp Val Leu Lys Tyr Tyr Asp Ala Glu
 340 345 350
 Thr Val Arg Tyr Phe Leu Met Ser Gly His Tyr Arg Ser Gln Leu Asn
 355 360 365
 Tyr Ser Glu Glu Asn Leu Lys Gln Ala Arg Ala Ala Leu Glu Arg Leu
 370 375 380
 Tyr Thr Ala Leu Arg Gly Thr Asp Lys Ser Val Pro Ala Ala Gly Gly
 385 390 395 400
 Glu Ala Phe Glu Ala Arg Phe Val Glu Val Met Asn Asp Asp Phe Asn
 405 410 415
 Thr Pro Glu Ala Tyr Ser Val Leu Phe Asp Met Ala Arg Glu Val Asn
 420 425 430
 Arg Leu Lys Ser Glu Asp Met Ala Ala Ala Asn Ala Leu Ala Ser His
 435 440 445
 Leu Arg Lys Leu Ser Ser Val Leu Gly Leu Leu Glu Gln Glu Pro Asp
 450 455 460
 Val Phe Leu Gln Ser Gly Ala Gln Ala Asp Asp Gly Glu Val Ala Glu
 465 470 475 480
 Ile Glu Ala Leu Ile Lys Ala Arg Leu Glu Ala Arg Gln Ala Lys Asp
 485 490 495
 Trp Ala Ala Ala Asp Ala Ala Arg Asn Arg Leu Thr Glu Met Gly Ile
 500 505 510
 Ile Leu Glu Asp Gly Pro Gln Gly Thr Thr Trp Arg Arg Lys
 515 520 525

<210> 7397

<211> 518

<212> PRT

<213> Enterobacter cloacae

<400> 7397

Asn Val Leu Leu Thr Ile Thr Ala Gln Lys Lys Arg Tyr Ser Gly Glu
 1 5 10 15
 Ile Ser Met Ser Leu Ile Ser Gly Phe Val Lys Ser Leu Ser Lys Leu
 20 25 30
 Ser Met Ile Gly Arg Ala Leu Met Leu Pro Ile Ser Leu Leu Pro Ala
 35 40 45
 Ala Gly Leu Leu Leu Ala Phe Gly Asp Lys Phe His Leu Pro Leu Met
 50 55 60

Met Asn Ala Gly Gly Val Ile Phe Asp Asn Leu Pro Met Leu Phe Ala
 65 70 75 80
 Ile Gly Ser Ala Val Gly Leu Ala Ser Glu Ser Gly Ile Ala Ala Leu
 85 90 95
 Ser Ala Ala Val Ser Val Phe Val Thr Asn Ile Thr Ile Ser Thr Val
 100 105 110
 Leu Ser Ile Thr Pro Glu Met Ala Ser Gln Gly Gly Lys Tyr Ala Met
 115 120 125
 Val Val Gly Ile Pro Thr Leu Gln Met Gly Val Phe Gly Gly Leu Ile
 130 135 140
 Cys Gly Ile Leu Ala Ala Trp Cys Tyr Asn Arg Phe His Thr Met Gln
 145 150 155 160
 Leu Pro Glu Phe Leu Gly Phe Phe Ser Gly Lys Arg Phe Val Ala Ile
 165 170 175
 Ala Thr Ala Phe Leu Ser Phe Leu Leu Gly Leu Leu Leu Pro Tyr Val
 180 185 190
 Trp Gln His Ile Gln Ser Gly Ile Asp Ala Leu Ser Val Val Val Asn
 195 200 205
 Gly Asp Asn Gln Ala Ala Ser Thr Phe Ile Phe Gly Leu Val Glu Arg
 210 215 220
 Ala Leu Ile Pro Leu Gly Leu His His Ile Trp Tyr Pro Ser Phe Trp
 225 230 235 240
 Tyr Ser Phe Gly Asp Tyr Thr Thr Gln Ala Gly Gln Val Ile His Gly
 245 250 255
 Asp Gln Thr Ile Trp Phe Lys Met Leu Glu Glu Gly Val Lys Ser Phe
 260 265 270
 Ser Ser Asp Thr Tyr Gln Asn Ala Gly Lys Phe Met Gln Gly Glu Phe
 275 280 285
 Pro Leu Met Leu Phe Ala Leu Pro Ala Ala Cys Leu Ala Met Tyr His
 290 295 300
 Glu Ala His Thr Lys Asn Lys Lys Ile Ala Ala Gly Ile Leu Phe Ser
 305 310 315 320
 Ala Ala Leu Thr Cys Phe Leu Thr Gly Ile Thr Glu Pro Val Glu Phe
 325 330 335
 Thr Phe Ile Phe Val Ala Pro Ile Leu Tyr Val Phe Asn Ala Ile Met
 340 345 350
 Ala Gly Leu Ala Tyr Met Thr Met Tyr Leu Leu His Ala His Ile Ala
 355 360 365
 Lys Ser Phe Ser Ala Gly Phe Ile Asp Tyr Leu Ser Phe Gly Ile Leu
 370 375 380
 Pro Ser Phe Asn Gly Tyr Gln Thr Asn Phe Leu Ser Ala Ile Ile Val
 385 390 395 400
 Gly Ile Pro Met Ala Leu Ile Tyr Tyr Phe Thr Phe Arg Phe Val Ile
 405 410 415
 Arg Arg Phe Asp Val Lys Thr Pro Gly Arg Thr Glu Val Thr Ala Ser
 420 425 430
 Ala Asn Asp Lys Ser Asp Ser Glu Leu Ala Thr Glu Ile Ile Gly Leu
 435 440 445
 Leu Gly Gly Ala Gln Asn Ile Asp Ser Val Gly Ser Cys Ile Thr Arg
 450 455 460
 Leu Arg Leu Glu Val Ala Asn Ser Glu Ala Val Asp Arg Asp Gly Leu
 465 470 475 480
 Asn Gly Leu Gly Ala Arg Gly Val Val Phe Val Gly Asp Asn Gly Ile
 485 490 495
 Gln Val Ile Phe Gly Ala Arg Ala Gln Phe Ile Ala Gln Thr Met Ser
 500 505 510
 Thr Met Ile Gly Lys
 515

<210> 7398

<211> 188

<212> PRT

<213> Enterobacter cloacae

<400> 7398

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Leu Leu Tyr Phe His Asp Leu Pro Trp Ile Asn Ala Met Pro Thr Val
1      5      10      15
Ile Thr His Ala Ala Val Pro Leu Cys Leu Gly Leu Gly Leu Gly Thr
      20      25      30
Asn Val Ile Pro Pro Arg Leu Leu Phe Ala Gly Ile Val Leu Ala Met
      35      40      45
Leu Pro Asp Ala Asp Val Leu Ala Phe Lys Phe Gly Val Ala Tyr Gly
      50      55      60
Asn Ile Phe Gly His Arg Gly Phe Thr His Ser Leu Leu Phe Ala Leu
65      70      75      80
Val Val Pro Ile Leu Cys Val Leu Ala Gly Arg Arg Trp Phe Arg Ala
      85      90      95
Ser Leu Thr Arg Cys Trp Leu Phe Leu Thr Val Ser Leu Leu Ser His
      100     105     110
Ser Leu Leu Asp Ser Ile Thr Thr Gly Gly Lys Gly Val Gly Trp Leu
      115     120     125
Trp Pro Trp Ser Asp Glu Arg Phe Phe Ala Pro Trp Gln Val Ile Lys
      130     135     140
Val Ala Pro Phe Ala Leu Ser Arg Tyr Thr Thr Pro Tyr Gly His Glu
      145     150     155     160
Val Ile Ile Ser Glu Leu Leu Trp Val Trp Leu Pro Gly Met Val Leu
      165     170     175
Met Gly Met Leu Trp Trp Arg Lys Arg Ala Arg
      180     185

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<210> 7399

<211> 215

<212> PRT

<213> Enterobacter cloacae

<400> 7399

```

Ser Pro Ser Arg Phe Asn Pro Pro Arg Leu Phe Ala His Phe Pro Thr
1      5      10      15
Thr Gln Pro Phe Ser Leu Pro Val Leu His Ala Ile Leu Cys Ala Leu
      20      25      30
Glu Ser Ser Val Phe Arg Thr Thr Gly Val Leu Arg Arg Met Ser Ser
      35      40      45
Arg Asn Asn Pro Ala Arg Val Ala Ile Val Met Gly Ser Lys Ser Asp
      50      55      60
Trp Ala Thr Met Gln Phe Ala Ala Glu Ile Phe Glu Ile Leu Asn Val
65      70      75      80
Pro His His Val Glu Val Val Ser Ala His Arg Thr Pro Asp Lys Leu
      85      90      95
Phe Ser Phe Ala Glu Ser Ala Glu Glu Asn Gly Tyr Glu Val Ile Ile
      100     105     110
Ala Gly Ala Gly Gly Ala Ala His Leu Pro Gly Met Ile Ala Ala Lys
      115     120     125
Thr Leu Val Pro Val Leu Gly Val Pro Val Gln Ser Ala Ala Leu Ser
      130     135     140
Gly Val Asp Ser Leu Tyr Ser Ile Val Gln Met Pro Arg Gly Ile Pro
      145     150     155     160
Val Gly Thr Leu Ala Ile Gly Lys Ala Gly Ala Ala Asn Ala Ala Leu
      165     170     175
Leu Ala Ala Gln Ile Leu Ala Thr His Asp Lys Glu Leu His Gln Arg
      180     185     190
Leu Ala Glu Trp Arg Lys Ala Gln Thr Asp Glu Val Leu Asp Asn Pro
      195     200     205

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Asp Pro Arg Gly Ala Ala
210 215

<210> 7400

<211> 99

<212> PRT

<213> Enterobacter cloacae

<400> 7400

Arg Ile Pro Phe Thr Ser Arg Arg Arg Arg Ser Gln Arg Ala Ala Ser
1 5 10 15
Cys Gly Ser Trp Val Thr Arg Ile Ser Val Val Pro Cys Ser Arg Leu
20 25 30
Arg Glu Asn Ser Arg Ser Ala Ile Leu Ser Pro Val Leu Arg Ser Arg
35 40 45
Leu Pro Val Gly Ser Ser Ala Asn Ser Thr Ser Gly Arg Pro Leu Asn
50 55 60
Ala Leu Ala Ser Ala Thr Arg Cys Cys Ser Pro Pro Glu Ser Cys Ala
65 70 75 80
Gly Arg Trp Ser Arg Arg Phe Pro Ser Pro Ser Cys Ser Ser Asn Ala
85 90 95
Phe Ala

<210> 7401

<211> 271

<212> PRT

<213> Enterobacter cloacae

<400> 7401

Ile Met Thr Arg Gln Thr Ala Glu Asn Leu Thr Gly Lys Val Met Gln
1 5 10 15
Lys Ser Val Leu Ile Thr Gly Cys Ser Ser Gly Ile Gly Leu Glu Ser
20 25 30
Ala Leu Glu Leu Lys Arg Gln Gly Phe Trp Val Leu Ala Cys Arg
35 40 45
Lys Pro Glu Asp Val Glu Arg Met Arg Gly Leu Gly Phe Thr Gly Ile
50 55 60
Leu Leu Asp Leu Asp Ser Pro Glu Ser Val Glu Gln Ala Ala Asp Glu
65 70 75 80
Val Ile Ala Leu Thr Asn Asn Arg Leu Tyr Gly Leu Phe Asn Asn Ala
85 90 95
Gly Tyr Gly Val Tyr Gly Pro Leu Gln Thr Leu Ser Arg Glu Gln Leu
100 105 110
Glu Gln Gln Phe Ser Ala Asn Phe Phe Gly Ala His Gln Leu Thr Met
115 120 125
Arg Leu Leu Pro Ala Met Leu Pro His Gly Glu Gly Arg Ile Val Met
130 135 140
Thr Ser Ser Val Met Gly Leu Ile Ser Thr Pro Gly Arg Gly Ala Tyr
145 150 155 160
Ala Ala Ser Lys Tyr Ala Leu Glu Ala Trp Ser Asp Ala Leu Arg Met
165 170 175
Glu Leu Arg His Ser Gly Ile Lys Val Ser Leu Ile Glu Pro Gly Pro
180 185 190
Ile Arg Thr Arg Phe Thr Glu Asn Val Asn Gln Thr Gln Ala Asp Lys
195 200 205
Pro Val Glu Asn Pro Gly Ile Ala Ala Arg Phe Thr Leu Gly Pro Glu
210 215 220
Ala Val Val Ala Lys Val Arg His Ala Phe Glu Ser Asp Thr Pro Lys
225 230 235 240
Met Arg Tyr Pro Val Thr Leu Val Thr His Ala Val Gly Trp Leu Lys

245 250 255
 Arg Leu Leu Pro Gly Arg Met Met Asp Lys Ile Leu Gln Gly
 260 265 270

<210> 7402
 <211> 177
 <212> PRT
 <213> Enterobacter cloacae

<400> 7402
 Arg Phe Ala Pro Arg Ile Pro Asn Gly Ala Phe Tyr Phe Cys Gln Ser
 1 5 10 15
 Gly Ser His Leu Phe Thr Gly Ala Lys Ser Cys Ser Leu Ala Asp Ile
 20 25 30
 Leu Thr Phe Asn Lys Tyr Ala Val Phe Ser Leu Arg His Ala Lys Gln
 35 40 45
 Glu Val Phe Met Leu Ile Val Val Pro Val Ile Ile Phe Val Ala Leu
 50 55 60
 Leu Phe Val Gly Ala Gly Val Lys Ile Val Pro Gln Gly Tyr Gln Trp
 65 70 75 80
 Thr Val Glu Arg Phe Gly Arg Tyr Thr Asn Thr Leu Gln Pro Gly Leu
 85 90 95
 Ser Leu Ile Val Pro Phe Met Asp Arg Ile Gly Arg Lys Ile Asn Met
 100 105 110
 Met Glu Gln Val Leu Asp Ile Pro Ser Gln Glu Val Ile Ser Lys Asp
 115 120 125
 Asn Ala Asn Val Thr Ile Asp Ala Val Cys Phe Ile Gln Val Ile Asp
 130 135 140
 Ala Pro Lys Ala Ala Tyr Glu Val Ser Asn Leu Glu Leu Ala Ile Val
 145 150 155 160
 Asn Leu Thr Met Thr Asn Val His Asn Lys Tyr Ala Ser Leu Lys Tyr
 165 170 175

<210> 7403
 <211> 114
 <212> PRT
 <213> Enterobacter cloacae

<400> 7403
 Arg Cys Arg Ser Ala Arg Ile Leu Tyr Tyr Ser Gly Pro Gly Arg Arg
 1 5 10 15
 Trp Pro Asp Asp Gly Ser Asn Thr Asp Ser Glu Tyr Leu Ala Gly Val
 20 25 30
 Arg Gly Val Ser Arg Arg Arg Gly Arg Val Ile Met Ala Thr Phe Ser
 35 40 45
 Leu Gly Lys His Pro His Val Glu Leu Cys Asp Leu Leu Lys Leu Glu
 50 55 60
 Gly Trp Ser Glu Ser Gly Ala Gln Ala Lys Ile Val Ile Ala Asp Gly
 65 70 75 80
 Gln Val Thr Val Asp Gly Ala Val Glu Thr Arg Lys Arg Cys Lys Ile
 85 90 95
 Val Ala Gly Gln Thr Val Ser Phe Ala Gly Gln Ser Val Thr Val Thr
 100 105 110
 Ala

<210> 7404
 <211> 292
 <212> PRT

<213> Enterobacter cloacae

<400> 7404

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Thr Asp Lys Arg Glu Cys Arg Met Ser Val Gln Asn Ile Val Asn Ile
1          5          10          15
Thr Glu Ala Asn Leu Gln Gln Thr Leu Glu Gln Ser Met Thr Lys Pro
          20          25          30
Val Leu Phe Tyr Phe Trp Ser Glu Arg Ser Gln His Cys Leu Gln Leu
          35          40          45
Thr Pro Val Leu Glu Ser Leu Ala Ala Gln Tyr Asn Gly Gln Phe Ile
          50          55          60
Leu Ala Lys Leu Asp Cys Asp Ala Glu Pro Met Val Ala Ser Gln Phe
65          70          75          80
Gly Leu Arg Ala Ile Pro Thr Val Tyr Leu Phe Gln Asn Gly Gln Pro
          85          90          95
Val Asp Gly Phe Gln Gly Pro Gln Pro Glu Glu Ala Ile Arg Ala Leu
          100          105          110
Leu Asp Lys Val Leu Pro Arg Glu Glu Glu Leu Lys Ala Gln Glu Ala
          115          120          125
Met Ala Leu Met Gln Glu Gly Lys Tyr Asp Glu Ala Leu Pro Leu Leu
          130          135          140
Lys Asp Ala Trp Gln Leu Ser Asn Gln Asn Ser Gln Ile Gly Leu Leu
145          150          155          160
Leu Ala Glu Thr Gln Ile Ala Leu His Arg Pro Glu Asp Ala Glu Ala
          165          170          175
Val Leu Lys Thr Val Pro Met Gln Asp Gln Asp Thr Arg Tyr Gln Gly
          180          185          190
Leu Val Ala Gln Ile Asp Leu Leu Lys Gln Ala Ala Asp Thr Pro Glu
          195          200          205
Ile Gln Gln Leu Gln Gln Gln Val Ala Asp Asn Pro Gln Asp Ala Ala
          210          215          220
Leu Ala Ser Gln Leu Ala Leu Gln Leu His Gln Val Gly Arg Asn Glu
225          230          235          240
Glu Ala Leu Glu Leu Leu Phe Ser His Leu Gln Lys Asp Leu Gly Ala
          245          250          255
Ala Asp Gly Gln Ala Arg Lys Met Phe Gln Glu Ile Leu Ala Ala Leu
          260          265          270
Gly Thr Gly Asp Ala Leu Ala Ser Lys Tyr Arg Arg Gln Leu Tyr Ala
          275          280          285
Leu Leu Tyr
          290

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<210> 7405

<211> 83

<212> PRT

<213> Enterobacter cloacae

<400> 7405

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Ser Leu Gly Ser Ala Asn Arg Val Leu Phe Gly Gly Glu Trp Ile Lys
1          5          10          15
Glu Gly Ala Leu Val Val Asp Val Gly Ile Asn Arg Leu Glu Asn Gly
          20          25          30
Lys Val Val Gly Asp Val Val Tyr Glu Asp Ala Ala Ala Arg Ala Ser
          35          40          45
Tyr Ile Thr Pro Val Pro Gly Gly Val Gly Pro Met Thr Val Ala Thr
          50          55          60
Leu Ile Gln Asn Thr Leu Gln Ala Cys Glu Glu Tyr His Asp Val Glu
65          70          75          80
Asp Ala

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<210> 7406
 <211> 391
 <212> PRT
 <213> Enterobacter cloacae

<400> 7406
 Arg Asp Thr Gly Asp Phe Arg Gly Gln Ser Thr Val Tyr Arg Pro Asp
 1 5 10 15
 Asp Val Tyr Asp Asp Trp Gln Ile Ile Arg Cys Leu Lys Glu Ala Ser
 20 25 30
 Pro Val Arg Trp Gly Ser Pro Leu Ile Trp Leu Ile Ile Gly Lys Phe
 35 40 45
 Gln Gly Ala Val Leu Lys Lys Val Ser Ile Ile Asp Val Ala Lys His
 50 55 60
 Ala Gly Val Ser Val Ser Thr Val Ser Leu Val Leu Arg Gln Lys Gly
 65 70 75 80
 Lys Ile Ser Glu Ala Thr Ile Gly Lys Val Asn Ala Ala Ile Thr Thr
 85 90 95
 Leu Gly Tyr Val His Asn Val Ala Ala Asn Leu Arg Ala Asn Thr
 100 105 110
 Ser Asn Leu Ile Gly Leu Ile Leu Arg Asp Phe Ser Asp Ser Phe Ser
 115 120 125
 Ile Lys Val Met Ala Ser Ile Val Gln Glu Leu Glu Lys Gln Gly Tyr
 130 135 140
 Met Val Phe Leu Gly Gln Pro Leu Asn Asp Gly Glu His Leu Glu Arg
 145 150 155 160
 Thr Leu Leu Thr Phe Lys Gln Gln Gly Val Ala Gly Val Ile Tyr Leu
 165 170 175
 Ala Ser Asp Thr Arg Thr Ala Ser Leu Pro Glu His Ile Arg His Cys
 180 185 190
 Pro Leu Pro Leu Val Ala Val Ser Gln Ser Leu Leu Glu Glu Lys Cys
 195 200 205
 Asn Leu Val Met Arg Asp Asn Arg Gln Ala Ala Asn Leu Ala Ala Arg
 210 215 220
 Tyr Leu Ile Glu Arg Gly His Arg Thr Ile Ala Tyr Ile Gly Gly Arg
 225 230 235 240
 Asp Gly Cys Arg Ile Arg Glu Gln Arg Leu Leu Gly Phe Arg Ser Ala
 245 250 255
 Met Thr Gln Asn Gly Leu Ile Trp Arg Glu Glu Tyr Ser Pro Ala Cys
 260 265 270
 Thr Asp Asp Thr Gln Ala Ala Ala Met Ala Thr Arg Gln Leu Leu Glu
 275 280 285
 Lys Asn Asn Thr Ile Thr Ala Leu Leu Cys His Ser Pro Asp Ala Met
 290 295 300
 Ile Gly Ser Ile Ser Gly Ile His Gln Val Gly Arg Thr Val Gly Lys
 305 310 315 320
 Asp Val Phe Leu Thr Gln Gln Val Ala Leu Ile Gly Phe Glu Asp Met
 325 330 335
 Leu His Val Asn Leu Thr Ser Pro Ser Leu Thr Tyr Val Ser Ser Ala
 340 345 350
 Ser Glu Glu Thr Gly Arg Gln Ala Ala Gly Leu Met Ile Arg Arg Leu
 355 360 365
 Lys Glu Pro Asp Leu Gln Thr Gln Arg Ile Thr Leu Ser Gly Gln Leu
 370 375 380
 Ile Ala Arg Glu Ser Ala
 385 390

<210> 7407
 <211> 186
 <212> PRT
 <213> Enterobacter cloacae

<400> 7407

Gln Ala Pro Ile Cys Asp Pro Ser Thr Gly Arg Arg Thr Thr Ile Thr
 1 5 10 15
 Glu Gln Asp Ala Lys Met Val Thr Phe His Thr Asn His Gly Asp Ile
 20 25 30
 Val Ile Lys Thr Phe Asp Asp Lys Ala Pro Glu Thr Val Lys Asn Phe
 35 40 45
 Leu Asp Tyr Cys Arg Glu Gly Phe Tyr Asn Asn Thr Ile Phe His Arg
 50 55 60
 Val Ile Asn Gly Phe Met Ile Gln Gly Gly Phe Glu Pro Gly Met
 65 70 75 80
 Arg Gln Lys Glu Thr Lys Glu Ala Ile Lys Asn Glu Ala Asn Asn Gly
 85 90 95
 Leu Lys Asn Thr Arg Gly Thr Leu Ala Met Ala Arg Thr Gln Ala Pro
 100 105 110
 His Ser Ala Thr Ala Gln Phe Phe Ile Asn Val Ala Asp Asn Asp Phe
 115 120 125
 Leu Asn Phe Ser Gly Glu Ser Leu Gln Gly Trp Gly Tyr Cys Val Phe
 130 135 140
 Ala Glu Val Val Glu Gly Met Asp Val Val Asp Lys Ile Lys Ala Val
 145 150 155 160
 Ser Thr Gly Arg Ser Gly Met His Gln Asp Val Pro Lys Glu Asp Val
 165 170 175
 Val Ile Thr Ser Val Thr Val Ser Glu
 180 185

<210> 7408

<211> 242

<212> PRT

<213> *Enterobacter cloacae*

<400> 7408

Phe Val Ala Thr Leu Phe Ile Ala Asp Leu His Leu Gln Thr Glu Glu
 1 5 10 15
 Pro Ala Ile Thr Ala Gly Phe Leu Arg Phe Leu Arg Gly Glu Ala Lys
 20 25 30
 Asn Ala Asp Ala Leu Tyr Ile Leu Gly Asp Leu Phe Glu Ala Trp Ile
 35 40 45
 Gly Asp Asp Asp Pro Asn Pro Leu His Arg Glu Met Ala Ala Ala Ile
 50 55 60
 Lys Thr Leu Val Asp Ser Gly Val Pro Cys Tyr Phe Ile His Gly Asn
 65 70 75 80
 Arg Asp Phe Leu Ile Gly Gln Arg Tyr Ala Arg Glu Ser Gly Met Thr
 85 90 95
 Leu Leu Pro Glu Glu Val Leu Asn Leu Tyr Gly Arg Asn Ile Leu
 100 105 110
 Ile Met His Gly Asp Thr Leu Cys Thr Asp Asp Thr Gly Tyr Leu Ala
 115 120 125
 Phe Arg Ala Lys Val His Thr Pro Trp Ile Gln Lys Val Phe Leu Ala
 130 135 140
 Leu Pro Leu Phe Ile Arg Asn Arg Ile Ala Ala Arg Met Arg Ala Gly
 145 150 155 160
 Ser Lys Ala Ala Asn Ser Ser Lys Ser Met Thr Ile Met Asp Val Asn
 165 170 175
 Pro Gln Ala Val Val Lys Val Met Glu Lys His Arg Val Gln Trp Leu
 180 185 190
 Ile His Gly His Thr His Arg Pro Asp Val His Ser Leu Ile Ala Asn
 195 200 205
 Gly Glu Pro Ala His Arg Val Val Leu Gly Ala Trp His Ser Glu Gly
 210 215 220

Ser Met Val Lys Val Thr Pro Glu Gly Val Glu Leu Ile Ala Phe Pro
 225 230 235 240
 Phe

<210> 7409

<211> 363

<212> PRT

<213> Enterobacter cloacae

<400> 7409

Pro Gly Ser Ala Gly Cys Ser Met Lys Gln Val Cys Val Leu Gly Asn
 1 5 10 15
 Gly Gln Leu Gly Arg Met Leu Arg Gln Ala Gly Glu Pro Leu Gly Ile
 20 25 30
 Ala Val Trp Pro Val Gly Leu Asp Ala Glu Pro Glu Ala Val Pro Phe
 35 40 45
 His Gln Ser Val Ile Thr Ala Glu Ile Glu Arg Trp Pro Glu Thr Ala
 50 55 60
 Leu Thr Arg Glu Leu Ala Arg His Asn Ala Phe Val Asn Arg Asp Val
 65 70 75 80
 Phe Pro Ile Ile Ala Asp Arg Leu Thr Gln Lys Gln Leu Phe Asp Lys
 85 90 95
 Leu Gly Leu Ala Thr Ala Pro Trp Gln Leu Leu Ser Asp Lys Arg Glu
 100 105 110
 Trp Asp Asp Val Phe Ala Met Leu Gly Asp Leu Ala Ile Val Lys Arg
 115 120 125
 Arg Val Gly Gly Tyr Asp Gly Arg Gly Gln Trp Arg Leu Arg Ala Asn
 130 135 140
 Asp Thr Ala Glu Leu Pro Asp Asp Cys Tyr Gly Glu Cys Ile Val Glu
 145 150 155 160
 Gln Gly Ile Asn Phe Ser Gly Glu Val Ser Leu Val Gly Ala Arg Gly
 165 170 175
 His Asp Gly His Thr Val Phe Tyr Pro Leu Thr His Asn Leu His Gln
 180 185 190
 Asp Gly Ile Leu Arg Thr Ser Val Ala Phe Pro Gln Ala Asn Ala Asp
 195 200 205
 Gln Gln Ala Gln Ala Glu Glu Met Leu Ser Ala Ile Met His Glu Leu
 210 215 220
 Gly Tyr Val Gly Val Met Ala Met Glu Cys Phe Val Thr Pro Ser Gly
 225 230 235 240
 Leu Leu Ile Asn Glu Leu Ala Pro Arg Val His Asn Ser Gly His Trp
 245 250 255
 Thr Gln Asn Gly Ala Ser Ile Ser Gln Phe Glu Leu His Leu Arg Ala
 260 265 270
 Ile Thr Asp Leu Pro Leu Pro Gln Pro Val Val Thr Ser Pro Ser Val
 275 280 285
 Met Ile Asn Leu Ile Gly Thr Asp Leu Asn Tyr Asn Trp Leu Lys Leu
 290 295 300
 Pro Leu Val His Leu His Trp Tyr Asp Lys Glu Val Arg Pro Gly Arg
 305 310 315 320
 Lys Val Gly His Leu Asn Leu Asn Asp Thr Asp Thr Asp Arg Leu Ser
 325 330 335
 Ala Thr Leu Glu Ala Ile Val Pro Leu Leu Pro Pro Glu Tyr Ala Ser
 340 345 350
 Gly Ile Val Trp Ala Gln Ser Lys Leu Lys
 355 360

<210> 7410

<211> 385

<212> PRT

<213> Enterobacter cloacae

<400> 7410

Val Ser Pro Ala Gly Glu Leu Thr Phe Pro Phe Pro Gly Val Gln Phe
 1 5 10 15
 Pro Pro Ile Ala Ala Gln Phe Ser Ser Gly Ile Thr Met Asn Asp Gly
 20 25 30
 Thr Asp Tyr Arg Ala Ile Leu Ala Ser Asp Thr Pro Leu Ile Asp Val
 35 40 45
 Arg Ala Pro Ile Glu Phe Ala Gln Gly Ala Met Pro Ala Ala Leu Asn
 50 55 60
 Leu Pro Leu Met Asn Asp Glu Arg Ala Ala Val Gly Thr Cys Tyr
 65 70 75 80
 Lys Arg Gln Gly Pro Asp Ala Ala Leu Ala Leu Gly His Ser Leu Val
 85 90 95
 Asn Gly Glu Thr Arg Glu Ala Arg Ile Asn Ala Trp Arg Glu Ala Ser
 100 105 110
 Leu Ala His Pro Glu Gly Tyr Leu Cys Cys Ala Arg Gly Gly Gln Arg
 115 120 125
 Ser His Ile Ser Gln Ala Trp Leu Lys Glu Ala Gly Ile Asp Tyr Pro
 130 135 140
 Leu Ile Arg Gly Gly Tyr Lys Ala Leu Arg Gln Thr Ala Ile Gln Val
 145 150 155 160
 Thr Ile Glu Gln Ser Gln Lys Pro Met Val Leu Ile Gly Gly Cys Thr
 165 170 175
 Gly Asn Gly Lys Thr Leu Leu Val Lys Gln His Ala Gln Gly Ile Asp
 180 185 190
 Leu Glu Gly Leu Ala His His Arg Gly Ser Ser Phe Gly Arg Thr Leu
 195 200 205
 Thr Pro Gln Leu Ser Gln Ala Ser Phe Glu Asn His Leu Ala Val Glu
 210 215 220
 Leu Leu Lys Lys Asp Ala Ala Arg Trp Val Leu Glu Asp Glu Gly Arg
 225 230 235 240
 Met Ile Gly Ser Asn His Leu Pro Glu Cys Leu Arg Asp Arg Met Val
 245 250 255
 Asp Ala Pro Val Val Val Val Glu Asp Pro Phe Glu Val Arg Leu Glu
 260 265 270
 Arg Leu Arg Glu Glu Tyr Phe Asp His Met Trp Ala Asp Phe Ser Ala
 275 280 285
 Ala Tyr Gly Glu Lys Ala Gly Trp Lys Ala Tyr Ser Glu Tyr Leu His
 290 295 300
 His Gly Leu Tyr Ala Ile Arg Arg Arg Leu Gly Leu Gln Arg Phe Ala
 305 310 315 320
 Glu Phe Thr Ala Leu Leu Asp Ala Ala Leu Val Glu Gln Gln Arg Thr
 325 330 335
 Gly Ser Thr Asp Ala His Phe Ser Trp Leu Val Pro Leu Leu Lys Asp
 340 345 350
 Tyr Tyr Asp Pro Met Tyr Gly Tyr Gln Leu Glu Lys Lys Ala Glu Lys
 355 360 365
 Ile Val Tyr Arg Gly Thr Tyr Glu Glu Ile Ala Glu Trp Leu Asp Arg
 370 375 380

385

<210> 7411

<211> 296

<212> PRT

<213> Enterobacter cloacae

<400> 7411

Leu Lys Asp Lys Pro Asp Met Pro Gly Ser Gln Arg Gly Ala Gly Leu

1 5 10 15
 Phe Ile Lys Arg Val Glu Gly Leu Ala Asp Gln Val His Phe Pro Thr
 20 25 30
 Ala Ala Ile Val Gln Thr Gly Glu Asn Gly Gln Gln Arg Gly Leu Thr
 35 40 45
 Gly Thr Gly Phe Thr Asn Gln Gly Asp Gly Phe Gly Thr Phe Asp Asn
 50 55 60
 Glu Phe Asn Ser Gly Glu Asp Gly Lys Leu Val Phe Pro Leu Thr Asp
 65 70 75 80
 Arg Leu Leu Lys Thr Met Asn Phe Asn Asn Val Phe Arg Trp His Leu
 85 90 95
 Pro Phe Leu Phe Leu Met Leu Met Thr Phe Arg Ala Ala Ala Asp
 100 105 110
 Thr Leu Leu Ile Leu Gly Asp Ser Leu Ser Ala Gly Tyr Arg Met Ala
 115 120 125
 Ala Ser Ala Ala Trp Pro Ala Leu Leu Asn Asp Lys Trp Gln Ser Arg
 130 135 140
 Ala Ser Val Val Asn Gly Ser Ile Ser Gly Asp Thr Ser Gln Gln Gly
 145 150 155 160
 Leu Ser Arg Leu Pro Ala Leu Leu Lys Gln His Gln Pro Arg Trp Val
 165 170 175
 Leu Val Glu Leu Gly Gly Asn Asp Gly Leu Arg Gly Phe Gln Pro Gln
 180 185 190
 Gln Thr Glu Gln Thr Leu Arg Thr Ile Leu Gln Thr Ile Lys Ala Ala
 195 200 205
 Asp Ala Gln Pro Leu Leu Met Gln Ile Arg Leu Pro Ala Asn Tyr Gly
 210 215 220
 Arg Arg Tyr Asn Glu Ala Phe Ser Ala Ile Tyr Pro Lys Leu Ala Lys
 225 230 235 240
 Glu Phe Asp Ile Pro Leu Leu Pro Phe Phe Met Glu Glu Val Tyr Leu
 245 250 255
 Lys Pro Gln Trp Met Gln Asp Asp Gly Ile His Pro Asn Arg Asp Ala
 260 265 270
 Gln Pro Phe Ile Ala Asp Trp Met Ala Thr Arg Leu Ala Pro Leu Val
 275 280 285
 Asn His Asp Ser Ser Asn Ser
 290 295

<210> 7412

<211> 210

<212> PRT

<213> Enterobacter cloacae

<400> 7412

Arg His Gln Thr Gly Arg His Ala Ala Gln Val Ala Gly Arg Asp Pro
 1 5 10 15
 Ser Ala Ser Ala Gly Leu Val Ser Arg Gly Leu Thr Gly Ala Gly Ala
 20 25 30
 Gly Gln His Leu Pro Val Val Pro Gly Lys Pro Ala Pro Leu Pro Gly
 35 40 45
 Val Met Met Phe Leu Ser Gln Glu Asp Phe Ala Thr Val Val Arg Ser
 50 55 60
 Thr Pro Leu Ile Ser Ile Asp Leu Ile Val Glu Asn Glu Arg Gly Glu
 65 70 75 80
 Phe Leu Leu Gly Lys Arg Thr Asn Arg Pro Ala Gln Gly Phe Trp Phe
 85 90 95
 Val Pro Gly Gly Arg Val Gln Lys Asp Glu Thr Leu Thr Asp Ala Phe
 100 105 110
 Glu Arg Leu Thr Leu Ala Glu Leu Gly Leu Gln Leu Pro Met Ala Ala
 115 120 125
 Gly Gln Phe Tyr Gly Val Trp Gln His Phe Tyr Asp Asp Asn Phe Ser

130 135 140
 Gly Thr Gly Phe Thr Thr His Tyr Val Val Leu Gly Phe Arg Leu Lys
 145 150 155 160
 Val Ser Glu Ala Asp Leu Arg Leu Pro Asp Ser Gln His Asp Asp Tyr
 165 170 175
 Arg Trp Leu Thr Pro Glu Ala Leu Leu Ala Ser Asp Asn Val His Asp
 180 185 190
 Asn Ser Arg Ala Tyr Phe Leu Ala Glu Arg Gln Ala Glu Val Pro Gly
 195 200 205
 Leu
 210

<210> 7413

<211> 474

<212> PRT

<213> Enterobacter cloacae

<400> 7413

Ile Trp Pro Leu His Gly Gln Gly Gln Leu Leu Pro Glu Lys Gly Val
 1 5 10 15
 Ile Met Glu Lys Leu Thr Cys Phe Lys Ala Tyr Asp Ile Arg Gly Lys
 20 25 30
 Leu Gly Glu Glu Leu Asn Glu Asp Ile Ala Trp Arg Ile Gly Arg Ala
 35 40 45
 Tyr Gly Glu Tyr Leu Lys Pro Gln Thr Ile Val Leu Gly Gly Asp Val
 50 55 60
 Arg Leu Thr Ser Glu Ser Leu Lys Leu Ala Leu Ala Lys Gly Leu Gln
 65 70 75 80
 Asp Ala Gly Val Asp Val Leu Asp Ile Gly Leu Ser Gly Thr Glu Glu
 85 90 95
 Ile Tyr Phe Ala Thr Phe His Leu Gly Val Asp Gly Gly Ile Glu Val
 100 105 110
 Thr Ala Ser His Asn Pro Met Asp Tyr Asn Gly Met Lys Leu Val Arg
 115 120 125
 Lys Gly Ala Arg Pro Ile Ser Gly Asp Thr Gly Leu Arg Asp Val Gln
 130 135 140
 Arg Leu Ala Glu Ala Asn Asp Phe Pro Pro Val Asn Glu Ala Lys Arg
 145 150 155 160
 Gly Ser Tyr Lys Gln Ile Asn Leu Gln Lys Glu Tyr Ile Asp His Leu
 165 170 175
 Leu Gly Tyr Ile Asn Val Ala Asn Leu Lys Pro Leu Lys Leu Val Ile
 180 185 190
 Asn Ser Gly Asn Gly Ala Ala Gly Pro Val Val Asp Ala Leu Glu Ala
 195 200 205
 Arg Phe Lys Ala Leu Asn Val Pro Val Thr Phe Val Lys Val His Asn
 210 215 220
 Thr Pro Asp Gly Asn Phe Pro Asn Gly Ile Pro Asn Pro Leu Leu Pro
 225 230 235 240
 Glu Cys Arg Asp Asp Thr Arg Asn Ala Val Ile Glu His Gly Ala Asp
 245 250 255
 Met Gly Ile Ala Phe Asp Gly Asp Phe Asp Arg Cys Phe Leu Phe Asp
 260 265 270
 Glu Lys Gly Gln Phe Ile Glu Gly Tyr Tyr Ile Val Gly Leu Leu Ala
 275 280 285
 Glu Ala Phe Leu Glu Lys Asn Pro Gly Ala Lys Ile Ile His Asp Pro
 290 295 300
 Arg Leu Ser Trp Asn Thr Val Asp Val Val Lys Ala Ala Gly Gly Glu
 305 310 315 320
 Pro Val Met Ser Lys Thr Gly His Ala Phe Ile Lys Glu Arg Met Arg
 325 330 335
 Glu Glu Asp Ala Ile Tyr Gly Gly Glu Met Ser Ala His His Tyr Phe

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          340          345          350
Arg Asp Phe Ala Tyr Cys Asp Ser Gly Met Ile Pro Trp Leu Leu Val
   355          360          365
Thr Glu Leu Leu Cys Leu Lys Gly Gln Ser Leu Gly Glu Leu Val Arg
   370          375          380
Asp Arg Met Ala Ala Phe Pro Ala Ser Gly Glu Ile Asn Ser Lys Leu
  385          390          395          400
Ala Gln Pro Ala Glu Ala Ile Ala Arg Val Glu Gln His Phe Ala Ile
          405          410          415
His Ala Leu Glu Ile Asp Arg Thr Asp Gly Ile Ser Met Ala Phe Pro
          420          425          430
Gln Trp Arg Phe Asn Leu Arg Ser Ser Asn Thr Glu Pro Val Val Arg
          435          440          445
Leu Asn Val Glu Ser Arg Ala Asp Thr Ala Leu Met Glu Ala Arg Thr
          450          455          460
Lys Asp Ile Leu Ala Leu Leu Asn Gln
  465          470

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<210> 7414

<211> 499

<212> PRT

<213> Enterobacter cloacae

<400> 7414

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Thr Lys Arg Arg Thr Lys Met Ser Leu Arg Glu Lys Thr Ile Ser Gly
 1          5          10          15
Ala Lys Trp Ser Ala Met Ala Thr Ile Val Ile Ile Gly Leu Gly Leu
          20          25          30
Val Gln Met Thr Val Leu Ala Arg Ile Ile Asp Asn His Gln Phe Gly
          35          40          45
Leu Leu Thr Val Ser Leu Val Ile Ile Ala Leu Ala Asp Thr Leu Ser
          50          55          60
Asp Phe Gly Ile Ala Asn Ser Ile Ile Gln Arg Lys Glu Ile Ser His
 65          70          75          80
Leu Glu Leu Thr Thr Leu Tyr Trp Leu Asn Val Gly Leu Gly Ile Phe
          85          90          95
Val Phe Val Leu Val Phe Leu Leu Ser Asp Val Ile Ala Gly Val Leu
          100          105          110
His Asn Pro Asp Leu Ala Pro Leu Met Arg Thr Leu Ser Phe Ala Phe
          115          120          125
Val Val Ile Pro His Gly Gln Gln Phe Arg Ala Leu Met Gln Lys Glu
          130          135          140
Leu Glu Phe Asn Lys Ile Gly Met Ile Glu Thr Ser Ala Val Leu Ala
 145          150          155          160
Gly Phe Thr Phe Thr Val Val Ser Ala His Phe Trp Pro Leu Ala Met
          165          170          175
Thr Ala Ile Leu Gly Tyr Leu Val Asn Ser Ala Val Arg Thr Leu Leu
          180          185          190
Phe Gly Phe Phe Gly Arg Lys Ile Tyr Arg Pro Gly Leu His Phe Ser
          195          200          205
Leu Ala Ser Val Ser Ser Asn Leu Arg Phe Gly Ala Trp Leu Thr Ala
          210          215          220
Asp Ser Ile Ile Asn Tyr Val Asn Thr Asn Leu Ser Thr Leu Val Leu
 225          230          235          240
Ala Arg Ile Leu Gly Ala Ser Val Ala Gly Gly Tyr Asn Leu Ala Tyr
          245          250          255
Asn Val Ala Val Val Pro Pro Met Lys Leu Asn Pro Ile Ile Thr Arg
          260          265          270
Val Leu Phe Pro Ala Phe Ala Lys Ile Gln Asp Asp Thr Glu Lys Leu
          275          280          285
Arg Val Asn Phe Tyr Lys Leu Leu Ser Val Val Gly Ile Ile Asn Phe

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290 295 300
 Pro Val Leu Leu Gly Leu Met Val Val Ala Ser Asn Phe Val Pro Leu
 305 310 315 320
 Val Phe Gly Glu Lys Trp Asn Ser Ile Ile Pro Ile Leu Gln Leu Leu
 325 330 335
 Cys Val Val Gly Leu Leu Arg Ser Val Gly Asn Pro Ile Gly Ser Leu
 340 345 350
 Leu Met Ala Lys Ala Arg Val Asp Ile Ser Phe Lys Phe Asn Val Phe
 355 360 365
 Lys Thr Phe Leu Phe Ile Pro Ala Ile Ile Val Gly Gly His Met Ala
 370 375 380
 Gly Ala Ile Gly Val Thr Leu Gly Phe Leu Leu Val Gln Ile Val Asn
 385 390 395 400
 Thr Val Leu Ser Tyr Phe Val Met Ile Lys Pro Val Leu Gly Ser Ser
 405 410 415
 Tyr Arg Gln Tyr Ile Leu Ser Leu Trp Leu Pro Phe Tyr Leu Ser Leu
 420 425 430
 Pro Thr Leu Ala Val Ser Tyr Gly Leu Gly Val Val Leu Asn Gly His
 435 440 445
 Leu Pro Leu Ala Ala Leu Leu Ala Val Gln Val Ala Ala Gly Ala Leu
 450 455 460
 Ala Phe Gly Val Met Ile Val Leu Ser Arg Asn Ala Leu Val Val Glu
 465 470 475 480
 Met Lys Arg Gln Phe Cys Arg Asn Glu Lys Met Lys Thr Leu Leu Arg
 485 490 495
 Ala Gly

<210> 7415

<211> 432

<212> PRT

<213> Enterobacter cloacae

<400> 7415

Phe Tyr Glu Ala Ile Met Lys Leu Leu Ile Leu Gly Asn His Thr Cys
 1 5 10 15
 Gly Asn Arg Gly Asp Ser Ala Ile Leu Arg Gly Leu Leu Asp Ala Ile
 20 25 30
 Asn Thr Leu Lys Pro Glu Thr Glu Val Asp Val Met Ser Arg Tyr Pro
 35 40 45
 Val Ser Ser Ser Trp Leu Leu Asn Arg Pro Val Met Gly Asp Pro Leu
 50 55 60
 Tyr Ser Gln Met Lys Gln His Asn Asn Ala Ala Gly Val Met Gly Arg
 65 70 75 80
 Val Lys Lys Val Leu Arg Arg Arg Tyr Gln His Gln Val Leu Leu Ser
 85 90 95
 Arg Val Thr Asp Thr Gly Lys Leu Arg Asn Ile Ala Ile Ala Gln Gly
 100 105 110
 Phe Thr Asp Phe Val Arg Leu Leu Ser Gly Tyr Asp Ala Ile Ile Gln
 115 120 125
 Val Gly Gly Ser Phe Phe Val Asp Leu Tyr Gly Val Pro Gln Phe Glu
 130 135 140
 His Ala Leu Cys Thr Phe Met Ala Lys Lys Pro Leu Phe Met Ile Gly
 145 150 155 160
 His Ser Val Gly Pro Phe Gln Asp Pro Gln Phe Asn Gln Leu Ala Asn
 165 170 175
 Tyr Val Phe Gly His Cys Asp Ala Leu Ile Leu Arg Glu Ser Val Ser
 180 185 190
 Leu Asp Met Met Lys Arg Ser Glu Ile Asp Thr Thr Lys Val Glu His
 195 200 205
 Gly Val Asp Thr Ala Trp Leu Val Asp His Gln Asp Asp Ser Phe Gln

210	215	220
Ala Ser Tyr Ala Val	Gln His Trp Leu Asp Val	Ala Ala Lys Gln Lys
225	230	235
Thr Val Ala Ile Thr	Leu Arg Glu Leu Ala Pro	Phe Asp Lys Arg Leu
	245	250
Gly Thr Thr Gln Ala	Ala Tyr Glu Lys Ala Phe	Ala Asp Val Val Asn
	260	265
Arg Val Leu Asp Ser	Gly Tyr Gln Val Leu Ala	Leu Ser Thr Cys Thr
	275	280
Gly Ile Asp Ser Tyr	Asn Lys Asp Asp Arg Met	Val Ala Leu Asn Leu
	290	300
Arg Asn Leu Val Asn	Asp Pro Ser Arg Tyr His	Val Val Met Asp Glu
305	310	315
Leu Asn Asp Leu Glu	Met Gly Lys Leu Leu Ser	Ala Cys Asp Leu Thr
	325	330
Val Gly Thr Arg Leu	His Ser Ala Ile Ile Ser	Met Asn Phe Gly Thr
	340	345
Pro Ala Ile Ala Ile	Asn Tyr Glu His Lys Ser	Ala Gly Ile Met Gln
	355	360
Gln Leu Gly Met Pro	Glu Met Ala Val Asp Ile	Arg His Leu Leu Asp
	370	375
Gly Ser Leu Gly Ala	Met Val Gly Asp Thr Leu	Gly Gln Leu Pro Ala
385	390	395
Ile Asn Glu Arg Leu	Ala Val Ala Val Lys Ala	Glu Arg Glu Lys Gly
	405	410
Ile Gly Met Val Lys	Ser Val Leu Asp Arg Val	Arg Glu Gly Lys
	420	425
		430

<210> 7416

<211> 345

<212> PRT

<213> Enterobacter cloacae

<400> 7416

Ser Ser Glu Lys Thr	Leu Pro Ala Gln Val	Ser Trp Leu Arg Gly Cys
1	5	10
His Arg Ala Gly	Val Leu Arg Met Thr	Lys Gln Arg Ile Phe Val Ala
	20	25
Gly His Arg Gly	Met Val Gly Ser Ala Ile	Val Arg Gln Leu Glu Gln
	35	40
Arg Gly Asp Val	Glu Val Ile Val Arg Thr	Arg Asp Glu Leu Asn Leu
	50	55
Leu Asp Ser Lys Ala	Val Gln Asp Phe Phe Ala	Ser Glu Arg Ile Asp
65	70	75
Gln Val Tyr Leu Ala	Ala Ala Lys Val Gly Gly	Ile Val Ala Asn Asn
	85	90
Thr Tyr Pro Ala	Asp Phe Ile Tyr Glu Asn	Met Met Ile Glu Ser Asn
	100	105
Ile Ile His Ala	Ala His Met His Asn	Val Asn Lys Leu Leu Phe Leu
	115	120
Gly Ser Ser Cys Ile	Tyr Pro Lys Met Ala Lys	Gln Pro Ile Ala Glu
	130	135
Ser Glu Leu Leu Gln	Gly Thr Leu Glu Ala Thr	Asn Glu Pro Tyr Ala
145	150	155
Ile Ala Lys Ile Ala	Gly Ile Lys Leu Cys Glu	Ser Tyr Asn Arg Gln
	165	170
Tyr Asn Arg Asp Tyr	Arg Ser Val Met Pro Thr	Asn Leu Tyr Gly Pro
	180	185
His Asp Asn Phe His	Pro Ser Asn Ser His Val	Ile Pro Ala Leu Leu
	195	200
Arg Arg Phe His	Glu Ala Thr Ala Glu	Asn Ala Pro Asp Val Val Val
		205

210 215 220
 Trp Gly Ser Gly Thr Pro Met Arg Glu Phe Leu His Val Asp Asp Met
 225 230 235 240
 Ala Ala Ala Ser Ile His Val Met Glu Leu Asp Arg Glu Val Trp Gln
 245 250 255
 Glu Asn Thr Glu Pro Met Leu Ser His Ile Asn Val Gly Thr Gly Val
 260 265 270
 Asp Cys Thr Ile Arg Glu Leu Ala Gln Thr Ile Ala Gln Val Val Gly
 275 280 285
 Tyr Lys Gly Arg Val Val Phe Asp Ala Thr Lys Pro Asp Gly Thr Pro
 290 295 300
 Arg Lys Leu Leu Asp Val Thr Arg Leu His Gln Leu Gly Trp Tyr His
 305 310 315 320
 Glu Val Ser Leu Glu Gln Gly Leu Ala Ser Thr Tyr Gln Trp Phe Leu
 325 330 335
 Glu Asn Gln His Arg Phe Arg Gly
 340 345

<210> 7417

<211> 312

<212> PRT

<213> Enterobacter cloacae

<400> 7417

Leu Gly Leu Tyr Phe Val Asn His Phe Lys Val Glu Asp Lys Met Thr
 1 5 10 15
 Asn Leu Lys Ala Val Ile Pro Val Ala Gly Leu Gly Met His Met Leu
 20 25 30
 Pro Ala Thr Lys Ala Ile Pro Lys Glu Met Leu Pro Ile Val Asp Lys
 35 40 45
 Pro Met Ile Gln Tyr Ile Val Asp Glu Ile Val Ala Ala Gly Ile Lys
 50 55 60
 Glu Ile Val Leu Val Thr His Ser Ser Lys Asn Ala Val Glu Asn His
 65 70 75 80
 Phe Asp Thr Ser Tyr Glu Leu Glu Ala Leu Leu Glu Gln Arg Val Lys
 85 90 95
 Arg Gln Leu Leu Ala Glu Val Gln Ser Ile Cys Pro Pro Gly Val Thr
 100 105 110
 Ile Met Asn Val Arg Gln Ala Gln Pro Leu Gly Leu Gly His Ser Ile
 115 120 125
 Leu Cys Ala Arg Pro Val Val Gly Asp Asn Pro Phe Ile Val Val Leu
 130 135 140
 Pro Asp Ile Ile Ile Asp Asn Ala Ser Ala Asp Pro Leu Arg Tyr Asn
 145 150 155 160
 Leu Ala Ala Met Val Ala Arg Phe Asn Glu Thr Gly Arg Ser Gln Val
 165 170 175
 Leu Ala Lys Arg Met Lys Gly Asp Leu Ser Glu Tyr Ser Val Ile Gln
 180 185 190
 Thr Lys Glu Pro Leu Glu Thr Glu Gly Gln Val Ser Arg Ile Val Glu
 195 200 205
 Phe Ile Glu Lys Pro Asp Gln Pro Gln Thr Leu Asp Ser Asp Leu Met
 210 215 220
 Ala Val Gly Arg Tyr Val Leu Asn Ala Asp Ile Trp Ala Glu Leu Glu
 225 230 235 240
 Lys Thr Lys Pro Gly Ala Trp Glu Arg Ile Gln Leu Thr Asp Ala Ile
 245 250 255
 Ala Glu Leu Gly Lys Lys Gln Ser Val Asp Ala Met Leu Met Thr Gly
 260 265 270
 Asp Ser Tyr Asp Cys Gly Lys Lys Met Gly Tyr Met Gln Ala Phe Val
 275 280 285
 Asn Thr Gly Leu Arg Asn Leu Lys Glu Gly Ala Lys Phe Arg Lys Cys

290 295 300
 Ile Glu Asn Leu Leu His Glu
 305 310

<210> 7418

<211> 378

<212> PRT

<213> Enterobacter cloacae

<400> 7418

Arg Asn Ile Asn Met Ser Lys Val Ala Leu Ile Thr Gly Val Thr Gly
 1 5 10 15
 Gln Asp Gly Ser Tyr Leu Ala Glu Leu Leu Glu Lys Gly Tyr Glu
 20 25 30
 Val His Gly Ile Lys Arg Arg Ala Ser Ser Phe Asn Thr Glu Arg Val
 35 40 45
 Asp His Ile Tyr Gln Asp Pro His Ala Ala Asn Pro Lys Phe His Leu
 50 55 60
 His Tyr Gly Asp Leu Thr Asp Thr Ser Asn Leu Thr Arg Ile Leu Gln
 65 70 75 80
 Glu Val Gln Pro Asp Glu Val Tyr Asn Leu Gly Ala Met Ser His Val
 85 90 95
 Ala Val Ser Phe Glu Ser Pro Glu Tyr Thr Ala Asp Val Asp Ala Met
 100 105 110
 Gly Thr Leu Arg Leu Leu Glu Ala Ile Arg Phe Leu Gly Leu Glu Lys
 115 120 125
 Lys Thr Arg Phe Tyr Gln Ala Ser Thr Ser Glu Leu Tyr Gly Leu Val
 130 135 140
 Gln Glu Ile Pro Gln Lys Glu Thr Thr Pro Phe Tyr Pro Arg Ser Pro
 145 150 155 160
 Tyr Ala Val Ala Lys Leu Tyr Ala Tyr Trp Ile Thr Val Asn Tyr Arg
 165 170 175
 Glu Ser Tyr Gly Met Tyr Ala Cys Asn Gly Ile Leu Phe Asn His Glu
 180 185 190
 Ser Pro Arg Arg Gly Glu Thr Phe Val Thr Arg Lys Ile Thr Arg Ala
 195 200 205
 Ile Ala Asn Ile Ala Gln Gly Leu Glu Ser Cys Leu His Leu Gly Asn
 210 215 220
 Met Asp Ser Leu Arg Asp Trp Gly His Ala Lys Asp Tyr Val Lys Met
 225 230 235 240
 Gln Trp Met Met Leu Gln Gln Glu Gln Pro Glu Asp Phe Val Ile Ala
 245 250 255
 Thr Gly Val Gln Tyr Ser Val Arg Gln Phe Val Glu Met Ala Ala Ala
 260 265 270
 Gln Leu Gly Ile Lys Leu Arg Phe Glu Gly Thr Gly Val Glu Glu Lys
 275 280 285
 Gly Ile Val Val Ser Val Thr Gly His Asp Ala Pro Gly Val Lys Pro
 290 295 300
 Gly Asp Val Ile Val Gln Val Asp Pro Arg Tyr Phe Arg Pro Ala Glu
 305 310 315 320
 Val Glu Thr Leu Leu Gly Asp Pro Thr Lys Ala His Glu Lys Leu Gly
 325 330 335
 Trp Lys Pro Glu Thr Thr Leu Gln Glu Met Val Ser Glu Met Val Ala
 340 345 350
 Lys Asp Leu Glu Ala Ala Lys Lys His Ser Leu Leu Lys Ser His Gly
 355 360 365
 Tyr Glu Val Ala Ile Ala Leu Glu Ser
 370 375

<210> 7419

<211> 425

<212> PRT

<213> Enterobacter cloacae

<400> 7419

Gln Gln Ser Gly Val Leu Pro Cys Gly Thr Ser Gly Arg Gly Ala Arg
 1 5 10 15
 Ser Met Lys Ile Leu Val Tyr Gly Ile Asn Tyr Ser Pro Glu Leu Thr
 20 25 30
 Gly Ile Gly Lys Tyr Thr Gly Glu Met Val Glu Trp Met Ala Ser Gln
 35 40 45
 Gly His Asp Val Arg Val Ile Thr Ala Pro Pro Tyr Tyr Pro Glu Trp
 50 55 60
 Lys Val Gly Glu Arg Tyr Ser Ser Trp Arg Tyr Arg Arg Glu Glu Gly
 65 70 75 80
 Ala Ala Thr Val Trp Arg Cys Pro Leu Tyr Val Pro Lys Gln Pro Ser
 85 90 95
 Thr Leu Lys Arg Leu Ile His Leu Gly Ser Phe Ala Leu Ser Ser Phe
 100 105 110
 Phe Pro Leu Met Ala Gln Arg Arg Trp Lys Pro Asp Arg Ile Ile Gly
 115 120 125
 Val Val Pro Thr Leu Phe Cys Thr Pro Gly Met Arg Leu Leu Gly Lys
 130 135 140
 Leu Ser Gly Ala Arg Thr Leu Leu His Ile Gln Asp Tyr Glu Val Asp
 145 150 155 160
 Ala Met Leu Gly Leu Gly Met Ala Gly Lys Gly Lys Gly Lys Val
 165 170 175
 Ala Lys Leu Ala Ser Ala Phe Glu Arg Ser Gly Leu His Asn Val Asp
 180 185 190
 Tyr Val Ser Thr Ile Ser Arg Ser Met Met Asn Lys Ala Gln Glu Lys
 195 200 205
 Gly Val Pro Ala Glu Lys Val Ile Phe Phe Pro Asn Trp Ser Glu Val
 210 215 220
 Ala Arg Phe Arg Asp Val Thr Asp Gln Asp Ala Gln Ala Leu Arg Ala
 225 230 235 240
 Gln Leu Gly Leu Pro Ala Glu Gln Lys Ile Ile Leu Tyr Ser Gly Asn
 245 250 255
 Ile Gly Glu Lys Gln Gly Leu Glu Ser Val Ile Asp Ala Ala Leu Gln
 260 265 270
 Leu Ser Glu His Pro Trp Met Phe Val Ile Val Gly Gln Gly Gly Gly
 275 280 285
 Lys Ala Arg Leu Glu Lys Met Ala Ser Glu Arg Gly Leu Thr Asn Ile
 290 295 300
 Arg Phe Phe Pro Leu Gln Ser Tyr Asp Ala Leu Pro Ala Leu Leu Lys
 305 310 315 320
 Met Ala Asp Cys His Leu Val Val Gln Lys Arg Gly Ala Ala Asp Ala
 325 330 335
 Val Leu Pro Ser Lys Leu Thr Asn Ile Leu Ala Val Gly Gly Asn Ala
 340 345 350
 Val Ile Thr Ala Glu Ala Ala Thr Glu Leu Gly Gln Leu Cys Asn Ser
 355 360 365
 Tyr Pro Gly Ile Ala Val Cys Val Glu Pro Glu Ser Val Pro Ala Leu
 370 375 380
 Val Thr Gly Ile Glu Gln Ala Leu Ala Met Pro Lys Glu Asn Thr Val
 385 390 395 400
 Ala Arg Glu Tyr Ala Glu Arg Thr Leu Glu Lys Glu Asn Val Leu Ser
 405 410 415
 Gln Phe Ile Ala Asp Ile Arg Gly
 420 425

<210> 7420

<211> 480

<212> PRT

<213> Enterobacter cloacae

<400> 7420

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Ile Met Ser Gln Thr Thr Leu Tyr Pro Val Val Met Ala Gly Gly Ser
1      5      10      15
Gly Ser Arg Leu Trp Pro Leu Ser Arg Val Leu Tyr Pro Lys Gln Phe
20      25      30
Leu Cys Leu Lys Gly Asp Leu Thr Met Leu Gln Thr Thr Val Asn Arg
35      40      45
Leu His Gly Val Glu Cys Glu Ser Pro Val Val Ile Cys Asn Glu Gln
50      55      60
His Arg Phe Ile Val Ala Glu Gln Leu Arg Gln Leu Asn Lys Leu Thr
65      70      75      80
Glu Asn Ile Ile Leu Glu Pro Ala Gly Arg Asn Thr Ala Pro Ala Ile
85      90      95
Ala Leu Ala Ala Leu Ala Ala Lys Arg Ser Ser Pro Asp Cys Asp Pro
100     105     110
Leu Met Leu Val Leu Ala Ala Asp His Val Ile Gln Gln Glu Glu Ala
115     120     125
Phe Arg Asp Ala Val Arg Ala Ala Ile Pro Tyr Ala Glu Asn Gly Lys
130     135     140
Leu Val Thr Phe Gly Ile Val Pro Asp Leu Pro Glu Thr Gly Tyr Gly
145     150     155     160
Tyr Ile Arg Arg Gly Ser Val Thr Pro Gly Glu Gly Asp Ser Val Ala
165     170     175
Phe Asp Val Ala Gln Phe Val Glu Lys Pro Asn Leu Glu Thr Ala Gln
180     185     190
Ala Tyr Val Ala Ser Gly Glu Tyr Tyr Trp Asn Ser Gly Met Phe Leu
195     200     205
Phe Arg Ala Gly Arg Tyr Leu Glu Glu Leu Glu Lys Tyr Arg Pro Asp
210     215     220
Ile Leu Ser Ala Cys Glu Lys Ala Met Ala Val Val Asp Pro Asp Leu
225     230     235     240
Asp Phe Ile Arg Val Asp Glu Glu Ala Phe Leu Ala Cys Pro Glu Glu
245     250     255
Ser Ile Asp Tyr Ala Val Met Glu Arg Thr Ala Asp Ala Val Val Val
260     265     270
Pro Met Asp Ala Gly Trp Ser Asp Val Gly Ser Trp Ser Ser Leu Trp
275     280     285
Glu Ile Ser Ala His Thr Pro Glu Gly Asn Val His His Gly Asp Val
290     295     300
Ile Ser His Lys Thr Glu Asn Ser Tyr Val Tyr Ala Glu Ser Gly Leu
305     310     315     320
Val Thr Thr Val Gly Val Lys Asp Leu Val Val Val Gln Thr Lys Asp
325     330     335
Ala Val Leu Ile Ala Asp Arg Asn Ala Val Gln Asp Val Lys Lys Val
340     345     350
Val Glu Lys Ile Lys Ala Asp Gly Arg His Glu His His Ile His Arg
355     360     365
Glu Val Tyr Arg Pro Trp Gly Lys Tyr Asp Ser Ile Asp Ala Gly Glu
370     375     380
Arg Tyr Gln Val Lys Arg Ile Thr Val Lys Pro Gly Glu Gly Leu Ser
385     390     395     400
Val Gln Met His His Arg Ala Glu His Trp Val Val Val Ala Gly
405     410     415
Thr Ala Lys Val Thr Ile Asp Gly Glu Val Lys Leu Leu Gly Glu Asn
420     425     430
Glu Ser Ile Tyr Ile Pro Leu Gly Ala Thr His Cys Leu Glu Asn Pro
435     440     445
Gly Lys Ile Pro Leu Asp Leu Ile Glu Val Arg Ser Gly Ser Tyr Leu

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<210> 7421
<211> 489
<212> PRT
<213> Enterobacter cloacae
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Thr 1	Pro	Ser	Pro	Leu 5	Trp	Gly	Glu	Gly	Arg 10	Gly	Glu	Gly	Arg 15	Val	
Arg	Phe	Arg	Thr 20	Lys	Gly	Thr	Thr	Met 25	Thr	Asn	Leu	Lys	Lys 30	Arg	Glu
Arg	Ala	Arg	Thr 35	Asn	Ala	Ser	Leu 40	Ile	Ser	Met	Val	Gln 45	Arg	Phe	Ser
Asp	Ile 50	Thr	Ile	Met	Val	Gly 55	Gly	Leu	Trp	Ala	Val 60	Cys	Trp	Val	Ser
Gly 65	Gln	Ser	Phe	Leu 70	Tyr	Met	His	Leu	Leu 75	Met	Ala	Leu	Ile	Ala	Leu 80
Val	Val	Phe	Gln 85	Met	Ile	Gly	Gly	Met 90	Thr	Asp	Phe	Tyr	Arg 95	Ser	Trp
Arg	Gly	Val 100	Lys	Met	Thr	Thr	Glu 105	Leu	Met	Leu	Leu	Leu	Gln 110	Asn	Trp
Thr	Leu 115	Ser	Leu	Val	Phe	Ser	Ala 120	Gly	Leu	Val	Ala	Phe 125	Ser	His	Asp
Phe	Asp 130	Asn	Arg	Leu	Val	Thr 135	Tyr	Leu	Cys	Trp	Tyr 140	Leu	Leu	Thr	Ser
Ile 145	Gly	Met	Val	Val 150	Cys	Arg	Ser	Leu	Ile 155	Arg	Phe	Gly	Ala	Gly	Trp 160
Leu	Arg	Asn	Arg 165	Gly	Tyr	Asn	Arg	Arg 170	Phe	Val	Ala	Val	Ala 175	Gly	Asp
Leu	Pro	Val 180	Gly	Gln	Val	Leu	Leu 185	Asp	Ser	Phe	Arg	Lys 190	Glu	Pro	Trp
Leu	Gly 195	Phe	Glu	Val	Val	Gly 200	Ile	Tyr	His	Asp	Ala 205	Lys	Pro	Gly	Gly
Val	Pro 210	Ser	Asp	Trp	Ala	Gly 215	Asn	Tyr	Glu	Gln	Leu 220	Ile	Asp	Asp	Ala
Lys 225	Ala	Gly	Lys	Ile 230	His	Asn	Val	Tyr	Ile 235	Ala	Met	Gln	Met	Lys	Asp 240
Glu	Ser	Arg	Ile 245	Lys	Lys	Leu	Met	Arg 250	Glu	Leu	Ala	Asp	Thr	Thr	Cys
Ser	Val	Ile 260	Leu	Ile	Pro	Asp	Val	Phe 265	Thr	Phe	Asn	Ile 270	Leu	His	Ser
Arg	Ile 275	Glu	Glu	Val	Asn	Gly	Val 280	Pro	Val	Val	Pro 285	Leu	Tyr	Asp	Thr
Pro	Leu 290	Ser	Gly	Ile	Asn	Arg 295	Val	Leu	Lys	Arg	Ala 300	Glu	Asp	Ile	Val
Leu 305	Ser	Ser	Leu	Ile 310	Leu	Leu	Ile	Ser	Pro 315	Val	Leu	Cys	Cys	Ile	
Ala	Leu	Ala	Val 325	Lys	Leu	Ser	Ser	Pro 330	Gly	Pro	Ile	Ile 335	Phe	Arg	Gln
Thr	Arg	Tyr 340	Gly	Met	Asp	Gly	Lys 345	Pro	Ile	Met	Val	Trp 350	Lys	Phe	Arg
Ser	Met 355	Lys	Val	Met	Glu	Asn	Asp 360	Lys	Val	Val	Thr 365	Gln	Ala	Thr	Gln
Asn	Asp 370	Pro	Arg	Val	Thr	Arg 375	Val	Gly	Asn	Phe	Leu 380	Arg	Arg	Thr	Ser
Leu 385	Asp	Glu	Leu	Pro 390	Gln	Phe	Ile	Asn	Val 395	Phe	Thr	Gly	Gly	Met	Ser
Ile	Val	Gly	Pro	Arg	Pro	His	Ala	Val	Ala	His	Asn	Glu	Gln	Tyr	Arg

405 410 415
 Thr Leu Ile Glu Gly Tyr Met Leu Arg His Lys Val Lys Pro Gly Ile
 420 425 430
 Thr Gly Trp Ala Gln Ile Asn Gly Trp Arg Gly Glu Thr Asp Thr Leu
 435 440 445
 Glu Lys Met Glu Lys Arg Ile Glu Phe Asp Leu Glu Tyr Ile Arg Glu
 450 455 460
 Trp Ser Leu Trp Phe Asp Ile Lys Ile Val Phe Leu Thr Ile Phe Lys
 465 470 475 480
 Gly Phe Val Asn Lys Ala Ala Tyr
 485

<210> 7422

<211> 464

<212> PRT

<213> Enterobacter cloacae

<400> 7422

Asn Gly Arg Arg Tyr Ser Ser Ser Ala Gly Arg Ile Ala Gly Cys Asp
 1 5 10 15
 Gly Gly Arg His Ala Arg Pro Ala Ala Cys Asp Gln Arg Thr Ser Gly
 20 25 30
 Gly Gly Gly Lys Ser Arg Thr Arg Lys Arg Tyr Trp His Gly Glu Ile
 35 40 45
 Arg Thr Arg Pro Arg Pro Gly Gly Glu Met Lys Phe Gly Phe Phe Leu
 50 55 60
 Leu Lys Phe Pro Leu Ser Ser Glu Thr Phe Val Leu Asn Gln Ile Thr
 65 70 75 80
 Ala Phe Ile Asp Met Gly Tyr Asp Val Glu Ile Ile Ala Leu Gln Lys
 85 90 95
 Gly Asp Thr Gln Asn Thr His Ala Ala Tyr Thr Arg Tyr Gly Leu Glu
 100 105 110
 Ala Lys Thr Arg Trp Leu Gln Asp Glu Pro Ala Gly Arg Met Asn Lys
 115 120 125
 Leu Arg His Arg Ala Gly Gln Thr Leu Arg Gly Leu His Arg Ala Ser
 130 135 140
 Thr Trp Arg Ala Leu Asn Met Ser Arg Tyr Gly Ala Glu Ala Arg Asn
 145 150 155 160
 Leu Ile Leu Ser Ala Ile Cys Gly Gln Thr Ala Gln Pro Tyr Arg Ala
 165 170 175
 Asp Val Phe Ile Ala His Phe Gly Pro Ala Gly Val Thr Ala Ala Lys
 180 185 190
 Leu Arg Glu Leu Gly Val Ile Asp Gly Lys Ile Ala Thr Ile Phe His
 195 200 205
 Gly Ile Asp Ile Ser Ser Arg Glu Val Leu Asn His Tyr Thr Pro Glu
 210 215 220
 Tyr Gln Gln Leu Phe Arg Arg Gly Asp Met Met Leu Pro Ile Ser Asn
 225 230 235 240
 Leu Trp Ala Gly Arg Leu Lys Thr Met Gly Cys Pro Ser Glu Lys Ile
 245 250 255
 Thr Val Ser Arg Met Gly Val Asp Met Glu Arg Phe Thr Gln Arg Pro
 260 265 270
 Val Lys Val Pro Gly Lys Pro Leu Gln Ile Ile Ser Val Ala Arg Leu
 275 280 285
 Thr Glu Lys Lys Gly Leu His Val Ala Ile Glu Ala Cys Arg Gln Leu
 290 295 300
 Lys Ala Arg Gly Val Asp Phe His Tyr Arg Ile Leu Gly Ile Gly Pro
 305 310 315 320
 Trp Glu Arg Arg Leu Arg Thr Leu Ile Glu Gln Tyr Gln Leu Glu Asp
 325 330 335
 Val Val Glu Met Pro Gly Phe Lys Pro Ser His Glu Val Lys Ala Met

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<210> 7423
<211> 466
<212> PRT
<213> Enterobacter cloacae
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<400> 7423															
Gly 1	Cys	Met	Leu	Lys 5	Lys	Ile	Thr	Arg	Arg 10	Arg	Phe	Val	Ser	Ser 15	Leu
Ser	Val	Leu	Ala 20	Ala	Met	Pro	Leu	Leu 25	Ser	Pro	Arg	Ala	Ala 30	Arg	Ala
Ala	Thr	Gly 35	Lys	Thr	Val	Ser	Val	Asp 40	Arg	Tyr	Asn	Asn 45	Asn	Asp	Trp
Ile	Ala 50	Ala	Phe	Lys	Gln	Ala 55	Phe	Thr	Glu	Gly	Asp 60	Thr	Val	Val	Val
Pro 65	Ala	Gly	Leu	Thr	Cys 70	Glu	Asn	Ile	Asn	Thr	Gly	Ile	Phe	Ile	Pro 80
Asp	Gly	Lys	Thr	Leu 85	Leu	Ile	Arg	Gly	Ala 90	Leu	Lys	Gly	Asn	Gly 95	Arg
Gly	Arg	Phe	Val 100	Leu	Gln	Glu	Gly	Cys 105	Lys	Val	Ile	Gly	Glu 110	Gly	Glu
Gly	Arg	Thr	His 115	Asn	Ile	Thr	Leu 120	Asp	Val	Arg	Gly	Ser 125	Asp	Cys	Val
Ile	Lys 130	Gly	Leu	Ala	Met	Ser	Gly 135	Phe	Gly	Pro	Val	Thr	Gln	Ile	Tyr
Ile 145	Gly	Gly	Lys	Lys	Pro 150	Arg	Val	Met	Arg	Asn	Leu 155	Leu	Ile	Asp	Arg 160
Ile	Ala	Val	Ser	Gln 165	Ala	Asn	Tyr	Ala	Ile 170	Leu	Arg	Gln	Gly	Phe 175	His
Asn	Gln	Val	Asp 180	Gly	Ala	Arg	Ile	Thr 185	Asn	Ser	Lys	Phe	Ser 190	His	Leu
Gln	Gly	Asp 195	Ala	Ile	Glu	Trp	Asn 200	Val	Ala	Ile	Asn	Asp 205	Arg	Asn	Ile
Leu	Ile 210	Ser	Asp	His	Val	Ile 215	Asp	Asn	Ile	Asn	Cys 220	Thr	Asn	Gly	Lys
Ile 225	Asn	Trp	Gly	Ile	Gly 230	Ile	Gly	Leu	Ala	Gly 235	Ser	Thr	Tyr	Asp	Asn 240
Asp	Tyr	Pro	Glu	Gln 245	Gln	Thr	Val	Lys	Asn 250	Phe	Val	Val	Ala	Asn 255	Ile
Thr	Gly	Ser	Asn 260	Cys	Arg	Gln	Leu	Val 265	His	Val	Glu	Asn	Gly 270	Lys	His
Phe	Val	Ile 275	Arg	Asn	Ile	Lys	Ala 280	Ser	Asn	Ile	Thr	Pro 285	Asp	Phe	Ser
Lys	Lys 290	Ala	Gly	Ile	Asp	Asn 295	Ala	Thr	Val	Ala	Ile 300	Tyr	Gly	Cys	Asp
Asn	Phe	Val	Ile	Asp	Asn	Ile	Asp	Met	Val	Asn	Ser	Ala	Gly	Met	Leu

305 310 315 320
 Ile Gly Tyr Gly Val Ile Lys Gly Asp Tyr Leu Ser Ile Pro Gln Asn
 325 330 335
 Phe Lys Leu Asn Asp Ile Arg Leu Asp Asn Arg Gln Leu Ala Tyr Lys
 340 345 350
 Leu Arg Gly Ile Gln Ile Ser Ser Gly Asn Ala Thr Ser Phe Val Ala
 355 360 365
 Ile Thr Asn Val Glu Met Gln Arg Ala Thr Leu Glu Leu His Asn Lys
 370 375 380
 Pro Gln His Leu Phe Leu Arg Asn Ile Asn Val Met Gln Glu Ser Thr
 385 390 395 400
 Thr Gly Pro Ala Leu Lys Met Asn Phe Asp Leu Arg Lys Asp Val Arg
 405 410 415
 Gly Lys Phe Met Ala Lys Asn Glu Thr Leu Leu Ser Leu Ala Asn Ile
 420 425 430
 Lys Ala Val Asn Glu Lys Gly Gln Ser Ser Val Asp Ile Asp Arg Val
 435 440 445
 Asp Gln His Val Val Asn Thr Glu Arg Leu Asn Phe Ala Leu Pro His
 450 455 460
 Arg
 465

<210> 7424

<211> 337

<212> PRT

<213> Enterobacter cloacae

<400> 7424

Arg Ile Glu Trp Ile Met Asn Asp Lys Val Leu Phe Ile Gly Ala Ser
 1 5 10 15
 Gly Phe Val Gly Thr Arg Leu Ile Glu Ile Ser Lys Thr Asp Phe Asp
 20 25 30
 Val Thr Asn Phe Asp Lys Gln Gln Ser His Phe Tyr Pro Asp Ile Thr
 35 40 45
 Val Ser Gly Asp Val Arg Asn Gln Asp Gln Leu Asp Gln Ala Leu Ala
 50 55 60
 Gly Phe Glu Thr Val Val Leu Leu Ala Ala Glu His Arg Asp Asp Val
 65 70 75 80
 Ser Pro Thr Ser Leu Tyr Tyr Asp Val Asn Val Gln Gly Thr Arg Asn
 85 90 95
 Val Leu Ser Ala Met Glu Lys Asn Asn Val Lys Asn Ile Ile Phe Thr
 100 105 110
 Ser Ser Val Ala Val Tyr Gly Leu Asn Lys Val Asn Pro Asp Glu Ser
 115 120 125
 His Pro His Asp Pro Phe Asn His Tyr Gly Lys Ser Lys Trp Gln Ala
 130 135 140
 Glu Glu Val Leu Arg Glu Trp Phe Asn Lys Ala Pro Glu Glu Arg Ser
 145 150 155 160
 Leu Thr Ile Val Arg Pro Thr Val Ile Phe Gly Glu Arg Asn Arg Gly
 165 170 175
 Asn Val Tyr Asn Leu Leu Lys Gln Ile Ala Gly Gly Lys Phe Ala Met
 180 185 190
 Val Gly Ala Gly Thr Asn Tyr Lys Ser Met Ala Tyr Val Gly Asn Ile
 195 200 205
 Val Glu Phe Ile Lys Phe Lys Leu Thr Asn Val Lys Pro Gly Tyr Asp
 210 215 220
 Val Tyr Asn Tyr Val Asp Lys Pro Asp Leu Asn Met Asn Gln Leu Val
 225 230 235 240
 Ser Glu Val Glu Lys Ser Leu Asn Lys Lys Ile Pro Ser Val His Leu
 245 250 255
 Pro Tyr Pro Leu Gly Met Leu Gly Gly Tyr Cys Phe Asp Ile Leu Ser

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<210> 7425
<211> 146
<212> PRT
<213> Enterobacter cloacae
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```
<210> 7426
<211> 232
<212> PRT
<213> Enterobacter cloacae
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<400> 7426															
Phe	Val	Ala	Ser	Val	Val	Leu	Leu	Leu	Ser	Arg	Gln	Ser	Arg	Leu	Tyr
1				5					10					15	
Gly	Asp	Lys	Gly	Cys	Gln	Ser	Leu	Arg	Phe	Thr	Leu	Lys	Arg	Ser	Leu
			20					25					30		
Ala	Ser	Phe	Ser	Trp	Gly	Gly	Asn	Cys	Leu	His	Ser	Leu	Leu	Gln	Glu
		35					40					45			
Lys	Gln	Lys	Thr	Gly	Ile	Phe	Met	Val	Leu	Ile	Ile	Tyr	Ala	His	Pro
	50					55					60				
Tyr	Pro	Gln	His	Ser	His	Ala	Asn	Lys	Arg	Met	Leu	Glu	Gln	Ala	Arg
65					70					75					80
Thr	Leu	Glu	Asn	Val	Glu	Ile	Arg	Ser	Leu	Tyr	Gln	Leu	Tyr	Pro	Asp
			85						90					95	
Phe	Asn	Ile	Asp	Val	Ala	Ala	Glu	Gln	Glu	Ala	Leu	Ser	Arg	Ala	Asp
			100					105					110		
Leu	Ile	Val	Trp	Gln	His	Pro	Met	Gln	Trp	Tyr	Ser	Thr	Pro	Pro	Leu
		115					120					125			

Leu Lys Leu Trp Ile Asp Lys Val Phe Ser His Gly Trp Ala Tyr Gly
 130 135 140
 His Asn Gly Asn Ala Leu His Gly Lys Ser Leu Met Trp Ala Val Thr
 145 150 155 160
 Thr Gly Gly Gly Glu Ser His Phe Glu Ile Gly Ala Phe Pro Gly Phe
 165 170 175
 Asp Val Leu Ala Gln Pro Leu Gln Ala Thr Ala Leu Tyr Cys Gly Leu
 180 185 190
 Asn Trp Leu Pro Pro Phe Ala Met His Cys Thr Phe Val Cys Asp Asp
 195 200 205
 Glu Thr Leu Gln Ala Gln Ala Arg His Tyr Lys Gln Arg Leu Leu Glu
 210 215 220
 Trp Gln Glu Thr His Asn Gly
 225 230

<210> 7427

<211> 96

<212> PRT

<213> Enterobacter cloacae

<400> 7427

Pro Lys Ile Val Arg Ser Ile Thr Lys Ile Gln Leu Arg Ala Gly Glu
 1 5 10 15
 Tyr Thr Met Gln Asn Lys Leu Leu Ile Ala Ser Val Leu Ala Ala Thr
 20 25 30
 Ala Met Phe Thr Val Ala Gly Cys Ser Ser Asn Gln Ala Val Lys Thr
 35 40 45
 Thr Asp Gly Lys Thr Ile Val Thr Asp Gly Lys Pro Gln Val Asp Asp
 50 55 60
 Asp Thr Gly Leu Val Ser Tyr Lys Asn Ala Glu Thr Gly Gln Thr Glu
 65 70 75 80
 Gln Ile Asn Arg Asp Gln Val Lys Ser Met Gly Glu Leu Asp Asn
 85 90 95

<210> 7428

<211> 659

<212> PRT

<213> Enterobacter cloacae

<400> 7428

Thr Gly Phe Arg Leu Leu Arg Cys Thr Val Pro Leu Ser Ala Thr Met
 1 5 10 15
 Lys Pro Cys Arg Arg Arg Leu Val Thr Thr Asn Asn Ala Tyr Leu Ser
 20 25 30
 Gly Arg Arg Arg Thr Met Asp Ser His Thr Leu Ile Gln Ala Leu Ile
 35 40 45
 Tyr Leu Gly Ala Ala Ala Leu Ile Val Pro Val Ala Val Arg Leu Gly
 50 55 60
 Leu Gly Ser Val Leu Gly Tyr Leu Ile Ala Gly Cys Val Ile Gly Pro
 65 70 75 80
 Trp Gly Phe Arg Leu Val Thr Asp Ala Glu Ser Ile Leu His Phe Ala
 85 90 95
 Glu Ile Gly Val Val Leu Met Leu Phe Val Ile Gly Leu Glu Leu Asp
 100 105 110
 Pro Gln Arg Leu Trp Lys Leu Arg Ala Ser Val Phe Gly Gly Gly Ala
 115 120 125
 Leu Gln Met Leu Ala Cys Gly Leu Leu Leu Gly Gly Phe Cys Ile Leu
 130 135 140
 Leu Gly Met Glu Trp Lys Val Ala Glu Leu Ile Gly Met Thr Leu Ala
 145 150 155 160
 Leu Ser Ser Thr Ala Ile Ala Met Gln Ala Met Asn Glu Arg Asn Leu

					165					170					175
Thr	Val	Ser	Gln	Met	Gly	Arg	Ser	Thr	Phe	Ser	Val	Leu	Leu	Phe	Gln
			180					185					190		
Asp	Ile	Ala	Ala	Ile	Pro	Leu	Val	Ala	Met	Ile	Pro	Leu	Leu	Ala	Thr
		195					200					205			
Ser	Gly	Ala	Ser	Thr	Thr	Leu	Gly	Ala	Phe	Ala	Leu	Ser	Ala	Leu	Lys
	210					215					220				
Val	Val	Gly	Ala	Leu	Ala	Leu	Val	Val	Leu	Leu	Gly	Arg	Tyr	Val	Thr
225					230					235					240
Arg	Pro	Leu	Leu	Arg	Phe	Val	Ala	Arg	Ser	Gly	Leu	Arg	Glu	Val	Phe
				245					250					255	
Ser	Ala	Val	Ala	Leu	Phe	Leu	Val	Phe	Gly	Phe	Gly	Leu	Leu	Leu	Glu
			260					265					270		
Glu	Ala	Gly	Leu	Ser	Met	Ala	Met	Gly	Ala	Phe	Leu	Ala	Gly	Val	Leu
		275					280					285			
Leu	Ala	Ser	Ser	Glu	Tyr	Arg	His	Ala	Leu	Glu	Ser	Asp	Ile	Glu	Pro
	290					295					300				
Phe	Lys	Gly	Leu	Leu	Leu	Gly	Leu	Phe	Phe	Ile	Gly	Val	Gly	Met	Ser
305					310					315					320
Ile	Asp	Phe	Gly	Thr	Leu	Val	Thr	His	Pro	Leu	Arg	Ile	Ile	Ile	Leu
				325					330					335	
Leu	Val	Gly	Phe	Leu	Val	Ile	Lys	Met	Ala	Met	Leu	Trp	Leu	Ile	Ala
			340					345					350		
Arg	Pro	Leu	Asn	Val	Pro	Lys	Pro	Gln	Arg	Arg	Trp	Phe	Ala	Val	Leu
		355					360					365			
Leu	Gly	Gln	Gly	Ser	Glu	Phe	Ala	Phe	Val	Val	Phe	Gly	Ala	Ala	Gln
	370					375					380				
Met	Ala	Asn	Val	Leu	Asp	Pro	Glu	Trp	Ala	Lys	Ala	Leu	Thr	Leu	Ala
385					390					395					400
Val	Ala	Leu	Ser	Met	Ala	Ala	Thr	Pro	Ile	Leu	Leu	Val	Leu	Leu	Thr
			405						410					415	
Arg	Leu	Glu	Lys	Thr	Gly	Ser	Glu	Gln	Glu	Arg	Glu	Ala	Asp	Glu	Ile
			420					425					430		
Asp	Glu	Glu	Gln	Pro	Arg	Val	Ile	Ile	Ala	Gly	Phe	Gly	Arg	Phe	Gly
		435					440					445			
Gln	Ile	Thr	Gly	Arg	Leu	Leu	Leu	Ser	Ser	Gly	Val	Lys	Met	Val	Ile
	450					455					460				
Leu	Asp	His	Asp	Pro	Asp	His	Val	Asp	Thr	Leu	Arg	Lys	Phe	Asp	Met
465					470					475					480
Lys	Val	Phe	Tyr	Gly	Asp	Ala	Thr	Arg	Val	Asp	Leu	Leu	Glu	Ser	Ala
			485						490					495	
Gly	Ala	Ala	Lys	Ala	Glu	Val	Leu	Ile	Asn	Ala	Ile	Asp	Asp	Pro	Glu
			500					505					510		
Thr	Ser	Met	Gln	Met	Val	Glu	Leu	Val	Lys	Glu	His	Phe	Pro	His	Leu

Ser Ala

<210> 7429

<211> 171

<212> PRT

<213> Enterobacter cloacae

<400> 7429

```

Trp Arg Gln Phe Phe Ala Ser Gly Lys Phe Ser Met Ile Ser Leu Ile
1      5      10      15
Ala Ala Leu Ala Val Asp Arg Val Ile Gly Met Glu Asn Ala Met Pro
20      25      30
Trp Asn Leu Pro Ala Asp Leu Ala Trp Phe Lys Arg Thr Thr Leu Asn
35      40      45
Lys Pro Val Val Met Gly Arg Leu Thr Trp Glu Ser Ile Gly Arg Pro
50      55      60
Leu Pro Gly Arg Lys Asn Ile Val Ile Ser Ser Gln Pro Gly Thr Asp
65      70      75      80
Asp Arg Val Gln Trp Val Lys Ser Val Asp Glu Ala Ile Ala Ala Cys
85      90      95
Gly Asp Ala Glu Ile Met Val Ile Gly Gly Gly Arg Val Tyr Glu
100      105      110
Gln Phe Leu Pro Lys Ala Gln Lys Leu Tyr Leu Thr His Ile Asp Ala
115      120      125
Glu Val Glu Gly Asp Thr His Phe Pro Asp Tyr Asp Pro Asp Glu Trp
130      135      140
Glu Ser Val Phe Ser Glu Phe His Asp Ala Asp Glu Gln Asn Ser His
145      150      155      160
Ser Tyr Cys Phe Glu Ile Leu Glu Arg Arg
165      170

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<210> 7430

<211> 278

<212> PRT

<213> Enterobacter cloacae

<400> 7430

```

Gly Gly Gly Tyr Ala Cys Pro Ser Ser Arg Leu Val Lys Thr Arg Leu
1      5      10      15
Leu Arg Glu Lys Gly Ala Gln Asn Gly Cys Ile Ile Ala Gly Asp Asn
20      25      30
Leu Asp Ala Thr Leu Ala Leu Glu Lys Ala Lys Ala Phe Pro Gly Leu
35      40      45
Asn Gly Met Asp Leu Ala Lys Glu Val Thr Thr Ala Glu Ala Tyr Ser
50      55      60
Trp Thr Gln Gly Ser Trp Thr Leu Glu Gly Asp Leu Pro Glu Ala Lys
65      70      75      80
Pro Glu Ser Glu Leu Pro Phe His Val Val Ala Tyr Asp Phe Gly Ala
85      90      95
Lys Arg Asn Ile Leu Arg Met Leu Val Asp Arg Gly Cys Arg Leu Thr
100      105      110
Met Val Pro Ala Gln Thr Ser Ala Glu Asp Val Leu Lys Met Asn Pro
115      120      125
Asp Gly Ile Phe Leu Ser Asn Gly Pro Gly Asp Pro Ala Pro Cys Asp
130      135      140
Tyr Ala Ile Ala Ala Ile Lys Ser Phe Leu Glu Thr Asp Ile Pro Val
145      150      155      160
Phe Gly Ile Cys Leu Gly His Gln Leu Leu Ala Leu Ala Ser Gly Ala
165      170      175
Asn Thr Val Lys Met Lys Phe Gly His His Gly Gly Asn His Pro Val

```

180 185 190
 Lys Asp Ile Asp Asn Asn Thr Val Met Ile Thr Ala Gln Asn His Gly
 195 200 205
 Phe Ala Val Asp Glu Ala Ser Met Pro Ala Asn Leu Arg Val Thr His
 210 215 220
 Lys Ser Leu Phe Asp Gly Thr Leu Gln Gly Ile His Arg Thr Asp Lys
 225 230 235 240
 Pro Ala Phe Ser Phe Gln Gly His Pro Glu Ala Ser Pro Gly Pro His
 245 250 255
 Asp Ala Ala Pro Leu Phe Asp His Phe Ile Glu Leu Ile Glu Gln Tyr
 260 265 270
 Arg Lys Ile Ala Lys
 275

<210> 7431

<211> 1081

<212> PRT

<213> Enterobacter cloacae

<400> 7431

Ser Gly Ala Glu Lys Thr Met Pro Lys Arg Thr Asp Ile Lys Ser Ile
 1 5 10 15
 Leu Ile Leu Gly Ala Gly Pro Ile Val Ile Gly Gln Ala Cys Glu Phe
 20 25 30
 Asp Tyr Ser Gly Ala Gln Ala Cys Lys Ala Leu Arg Glu Glu Gly Tyr
 35 40 45
 Arg Val Ile Leu Val Asn Ser Asn Pro Ala Thr Ile Met Thr Asp Pro
 50 55 60
 Glu Met Ala Asp Ala Thr Tyr Ile Glu Pro Ile His Trp Glu Val Val
 65 70 75 80
 Arg Lys Ile Ile Glu Lys Glu Arg Pro Asp Ala Val Leu Pro Thr Met
 85 90 95
 Gly Gly Gln Thr Ala Leu Asn Cys Ala Leu Glu Leu Glu Arg Gln Gly
 100 105 110
 Val Leu Glu Glu Phe Gly Val Thr Met Ile Gly Ala Thr Ala Asp Ala
 115 120 125
 Ile Asp Lys Ala Glu Asp Arg Arg Phe Asp Val Ala Met Lys Lys
 130 135 140
 Ile Gly Leu Asp Thr Ala Arg Ser Gly Ile Ala His Asn Met Glu Glu
 145 150 155 160
 Ala Leu Ala Val Ala Ala Glu Val Gly Tyr Pro Cys Ile Ile Arg Pro
 165 170 175
 Ser Phe Thr Met Gly Gly Thr Gly Gly Gly Ile Ala Tyr Asn Arg Glu
 180 185 190
 Glu Phe Glu Glu Ile Cys Glu Arg Gly Leu Asp Leu Ser Pro Thr Lys
 195 200 205
 Glu Leu Leu Ile Asp Glu Ser Leu Ile Gly Trp Lys Glu Tyr Glu Met
 210 215 220
 Glu Val Val Arg Asp Lys Asn Asp Asn Cys Ile Ile Val Cys Ser Ile
 225 230 235 240
 Glu Asn Phe Asp Ala Met Gly Ile His Thr Gly Asp Ser Ile Thr Val
 245 250 255
 Ala Pro Ala Gln Thr Leu Thr Asp Lys Glu Tyr Gln Ile Met Arg Asn
 260 265 270
 Ala Ser Met Ala Val Leu Arg Glu Ile Gly Val Glu Thr Gly Gly Ser
 275 280 285
 Asn Val Gln Phe Ser Val Asn Pro Lys Thr Gly Arg Leu Ile Val Ile
 290 295 300
 Glu Met Asn Pro Arg Val Ser Arg Ser Ser Ala Leu Ala Ser Lys Ala
 305 310 315 320
 Thr Gly Phe Pro Ile Ala Lys Val Ala Ala Lys Leu Ala Val Gly Tyr

Thr	Leu	Asp	Glu	Leu	Met	Asn	Asp	Ile	Thr	Gly	Gly	Arg	Thr	Pro	Ala	
			340					345					350			
Ser	Phe	Glu	Pro	Ser	Ile	Asp	Tyr	Val	Val	Thr	Lys	Ile	Pro	Arg	Phe	
		355				360						365				
Asn	Phe	Glu	Lys	Phe	Ala	Gly	Ala	Asn	Asp	Arg	Leu	Thr	Thr	Gln	Met	
	370					375					380					
Lys	Ser	Val	Gly	Glu	Val	Met	Ala	Ile	Gly	Arg	Thr	Gln	Gln	Glu	Ser	
385				390						395				400		
Leu	Gln	Lys	Ala	Leu	Arg	Gly	Leu	Glu	Val	Gly	Ala	Thr	Gly	Phe	Asp	
			405					410						415		
Pro	Lys	Val	Ser	Leu	Asp	Asp	Pro	Glu	Ala	Leu	Thr	Lys	Ile	Arg	Arg	
			420					425					430			
Glu	Leu	Lys	Asp	Ala	Gly	Ala	Glu	Arg	Ile	Trp	Tyr	Ile	Ala	Asp	Ala	
		435					440					445				
Phe	Arg	Ala	Gly	Leu	Ser	Val	Asp	Gly	Val	Phe	Asn	Leu	Thr	Asn	Ile	
	450					455					460					
Asp	Arg	Trp	Phe	Leu	Val	Gln	Ile	Glu	Glu	Leu	Val	Arg	Leu	Glu	Glu	
465				470						475				480		
Lys	Val	Ala	Glu	Leu	Gly	Ile	Asn	Gly	Leu	Asp	Ala	Asp	Phe	Leu	Arg	
			485					490						495		
Met	Leu	Lys	Arg	Lys	Gly	Phe	Ala	Asp	Ala	Arg	Leu	Ala	Lys	Leu	Ala	
			500					505					510			
Gly	Val	Arg	Glu	Ala	Glu	Ile	Arg	Lys	Leu	Arg	Asp	Gln	Tyr	Asp	Leu	
		515					520					525				
His	Pro	Val	Tyr	Lys	Arg	Val	Asp	Thr	Cys	Ala	Ala	Glu	Phe	Ser	Thr	
	530					535					540					
Asp	Thr	Ala	Tyr	Met	Tyr	Ser	Thr	Tyr	Glu	Asp	Glu	Cys	Glu	Ala	Asn	
545				550						555				560		
Pro	Ser	Val	Asp	Arg	Asp	Lys	Ile	Met	Val	Leu	Gly	Gly	Gly	Pro	Asn	
			565					570						575		
Arg	Ile	Gly	Gln	Gly	Ile	Glu	Phe	Asp	Tyr	Cys	Cys	Val	His	Ala	Ser	
			580					585					590			
Leu	Ala	Leu	Arg	Glu	Asp	Gly	Tyr	Glu	Thr	Ile	Met	Val	Asn	Cys	Asn	
		595					600					605				
Pro	Glu	Thr	Val	Ser	Thr	Asp	Tyr	Asp	Thr	Ser	Asp	Arg	Leu	Tyr	Phe	
	610					615					620					
Glu	Pro	Val	Thr	Leu	Glu	Asp	Val	Leu	Glu	Ile	Val	Arg	Ile	Glu	Lys	
625				630						635				640		
Pro	Lys	Gly	Val	Ile	Val	Gln	Tyr	Gly	Gly	Gln	Thr	Pro	Leu	Lys	Leu	
			645							650				655		
Ala	Arg	Ala	Leu	Glu	Ala	Ala	Gly	Val	Pro	Val	Ile	Gly	Thr	Ser	Pro	
			660					665								

Gln Gln Val Gln Lys Leu Ala Phe Glu Leu Gln Val Arg Gly Leu Met
 820 825 830
 Asn Val Gln Phe Ala Val Lys Asp Asn Glu Val Tyr Leu Ile Glu Val
 835 840 845
 Asn Pro Arg Ala Ala Arg Thr Val Pro Phe Val Ser Lys Ala Thr Gly
 850 855 860
 Ile Pro Leu Ala Lys Val Ala Ala Arg Val Met Ala Gly Gln Thr Leu
 865 870 875 880
 Ala Gln Gln Gly Val Thr Lys Glu Ile Ile Pro Pro Tyr Tyr Ser Val
 885 890 895
 Lys Glu Val Val Leu Pro Phe Asn Lys Phe Pro Gly Val Asp Pro Leu
 900 905 910
 Leu Gly Pro Glu Met Arg Ser Thr Gly Glu Val Met Gly Val Gly Arg
 915 920 925
 Thr Phe Ala Glu Ala Phe Ala Lys Ala Gln Leu Gly Ser Ser Ser Thr
 930 935 940
 Met Arg Lys Ser Gly Arg Ala Leu Leu Ser Val Arg Glu Gly Asp Lys
 945 950 955 960
 Glu Arg Val Val Asp Leu Ala Ala Lys Leu Leu Lys Gln Gly Phe Glu
 965 970 975
 Leu Asp Ala Thr His Gly Thr Ala Ile Val Leu Gly Glu Ala Gly Ile
 980 985 990
 Asn Pro Arg Leu Val Asn Lys Val His Glu Gly Arg Pro His Ile Gln
 995 1000 1005
 Asp Arg Ile Lys Asn Gly Glu Tyr Thr Tyr Ile Ile Asn Thr Thr Ala
 1010 1015 1020
 Gly Arg Gln Ala Ile Glu Asp Ser Lys Leu Ile Arg Arg Ser Ala Leu
 1025 1030 1035 1040
 Gln Tyr Lys Val His Tyr Asp Thr Thr Leu Asn Gly Gly Phe Ala Thr
 1045 1050 1055
 Ala Met Ala Leu Asn Ala Asp Ala Thr Glu Lys Val Ile Ser Val Gln
 1060 1065 1070
 Glu Met His Ala Gln Ile Ser Lys
 1075 1080

<210> 7432

<211> 433

<212> PRT

<213> Enterobacter cloacae

<400> 7432

Asn Gly Lys Ser Met Lys Asn Trp Lys Thr Leu Leu Leu Gly Val Ala
 1 5 10 15
 Met Val Ala Asn Thr Ser Phe Ala Ala Pro Gln Val Val Asp Lys Val
 20 25 30
 Ala Ala Val Val Asn Asn Gly Val Val Leu Glu Ser Asp Val Asp Gly
 35 40 45
 Leu Met Lys Ser Val Lys Leu Asn Ser Gly Gln Ala Gly Gln Gln Leu
 50 55 60
 Pro Asp Asp Ala Thr Leu Arg His Gln Ile Leu Glu Arg Leu Ile Met
 65 70 75 80
 Asp Gln Ile Val Leu Gln Met Gly Gln Lys Met Gly Val Lys Ile Ser
 85 90 95
 Asp Glu Gln Leu Asp Gln Ala Ile Ala Asn Ile Ala Lys Gln Asn Asn
 100 105 110
 Ile Thr Pro Asp Gln Met Arg Ser Arg Leu Ala Tyr Asp Gly Ile Ser
 115 120 125
 Tyr Ala Thr Tyr Arg Asn Gln Ile Arg Lys Glu Met Leu Ile Ser Glu
 130 135 140
 Val Arg Asn Asn Glu Val Arg Arg Arg Val Thr Ile Leu Pro Gln Glu
 145 150 155 160

Val Asp Ala Leu Ala Lys Gln Val Gly Asn Gln Asn Asp Ala Ser Thr
 165 170 175
 Glu Leu Asn Leu Ser His Ile Leu Ile Pro Leu Pro Glu Asn Pro Thr
 180 185 190
 Ser Asp Gln Ala Ala Glu Ala Glu Ser Gln Ala Arg Ala Ile Val Glu
 195 200 205
 Gln Ala Arg Asn Gly Asp Asp Phe Gly Lys Leu Ala Ile Thr Tyr Ser
 210 215 220
 Ala Asp Gln Gln Ala Leu Lys Gly Gly Gln Met Gly Trp Gly Arg Ile
 225 230 235 240
 Gln Glu Leu Pro Ser Leu Phe Ala Gln Ala Leu Ser Thr Ala Lys Lys
 245 250 255
 Gly Asp Ile Val Gly Pro Ile Arg Ser Gly Val Gly Phe His Ile Leu
 260 265 270
 Lys Val Asn Asp Leu Arg Gly Gln Ser Gln Asn Ile Ser Val Thr Glu
 275 280 285
 Val His Ala Arg His Ile Leu Leu Lys Pro Ser Pro Ile Met Thr Asp
 290 295 300
 Asp Gln Ala Arg Ala Lys Leu Glu Gln Ile Ala Ala Asp Ile Lys Ser
 305 310 315 320
 Gly Lys Thr Thr Phe Asp Lys Ala Ala Lys Glu Phe Ser Gln Asp Pro
 325 330 335
 Gly Ser Ala Asn Gln Gly Gly Asp Leu Gly Trp Ala Ala Ala Asp Ile
 340 345 350
 Tyr Asp Pro Ala Phe Arg Asp Ala Leu Met Lys Leu Asn Lys Gly Gln
 355 360 365
 Met Ser Ala Pro Val His Ser Ser Phe Gly Trp His Leu Ile Gln Leu
 370 375 380
 Met Asp Thr Arg Asn Val Asp Lys Thr Asp Ala Gln Lys Asp Arg
 385 390 395 400
 Ala Tyr Arg Met Leu Phe Asn Arg Lys Phe Ser Glu Glu Ala Ala Thr
 405 410 415
 Trp Met Gln Glu Gln Arg Ala Ser Ala Tyr Val Lys Val Leu Ser Asn
 420 425 430

<210> 7433

<211> 167

<212> PRT

<213> Enterobacter cloacae

<400> 7433

Arg Pro Ser Arg Thr Thr Ser Ala Ser Ala Pro Thr Thr Phe Ser Ala
 1 5 10 15
 Asp Lys Ala Asn Ala Pro Ser Val Val Asp Ala Pro Leu Val Ala Ser
 20 25 30
 Ser Gly Ile Ile Ala Thr Ser Gly Met Ala Ala Ile Ser Trp Asn Asn
 35 40 45
 Ser Thr Glu Lys Val Leu Arg Pro Ile Cys Asp Thr Val Arg Leu Arg
 50 55 60
 Ser Phe Ile Ala Cys Met Ala Ile Ala Val Glu Glu Ser Ala Ser Val
 65 70 75 80
 Met Pro Ile Asn Ser Ala Thr Phe His Ser Ile Pro Ser Arg Met Gln
 85 90 95
 Asn Pro Pro Asn Ser Arg Pro Gln Ala Ser Ile Cys Arg Ala Pro Pro
 100 105 110
 Pro Asn Thr Glu Ala Arg Ser Phe His Ser Arg Cys Gly Ser Asn Ser
 115 120 125
 Arg Pro Ile Thr Asn Ser Ile Ser Thr Thr Pro Ile Ser Ala Lys Cys
 130 135 140

Arg Ile Asp Ser Ala Ser Val Thr Ser Arg Lys Pro Gln Gly Pro Ile
 145 150 155 160
 Thr His Pro Ala Ile Arg
 165

<210> 7434

<211> 479

<212> PRT

<213> Enterobacter cloacae

<400> 7434

Phe Gly Leu Leu Ala Asp Arg Lys Leu Gln Gly Thr Ala Arg Val Leu
 1 5 10 15
 Asp Gln Val Trp Arg Phe Asn Ile Asp Tyr Thr Lys Val Ser Asp Pro
 20 25 30
 Tyr Tyr Phe Asn Asp Phe Asp Ser Lys Tyr Gly Ser Ser Thr Asp Gly
 35 40 45
 Tyr Ala Thr Gln Lys Phe Ser Val Gly Tyr Ala Ile Glu Asn Phe Asp
 50 55 60
 Ala Thr Val Ser Thr Lys Gln Phe Gln Val Phe Asp Thr Gln Ser Arg
 65 70 75 80
 Ser Thr Tyr Gly Ala Glu Pro Gln Leu Asp Val Asn Trp Tyr Gln Asn
 85 90 95
 Asp Val Gly Pro Phe Asp Thr Arg Val Tyr Ala Gln Ala Val His Phe
 100 105 110
 Val Asn Thr Asn Ser Asp Met Pro Glu Ser Thr Arg Leu His Ile Glu
 115 120 125
 Pro Thr Ile Asn Leu Pro Trp Ser Asn Asp Trp Ala Ser Leu Asn Thr
 130 135 140
 Glu Ala Lys Val Met Ala Thr His Tyr Gln Gln Lys Asn Leu Asp Trp
 145 150 155 160
 Tyr Asn Lys Arg Tyr Gly Thr Asp Leu Glu Glu Ser Val Asn Arg Thr
 165 170 175
 Leu Pro Gln Phe Lys Met Asp Gly Lys Leu Ile Phe Glu Arg Asp Met
 180 185 190
 Ala Leu Leu Ala Asp Gly Tyr Thr Gln Thr Leu Glu Pro Arg Met Gln
 195 200 205
 Tyr Leu Tyr Val Pro Tyr Arg Asp Gln Ser Lys Ile Gln Asn Tyr Asp
 210 215 220
 Ser Ser Phe Leu Gln Ser Asp Tyr Ser Gly Leu Phe Arg Asp Arg Thr
 225 230 235 240
 Tyr Gly Gly Leu Asp Arg Ile Ala Ser Ala Asn Gln Leu Thr Thr Gly
 245 250 255
 Val Thr Thr Arg Val Tyr Asp Asp Ala Ala Val Glu Arg Phe Asn Val
 260 265 270
 Ser Val Gly Gln Ile Tyr Tyr Phe Thr Glu Ser Arg Thr Gly Asp Asp
 275 280 285
 Asp Ile Asn Trp Glu Lys Asp Asn Lys Thr Gly Ser Leu Val Trp Ala
 290 295 300
 Gly Asp Thr Tyr Trp Arg Met Thr Asp Arg Trp Gly Leu Arg Gly Gly
 305 310 315 320
 Val Gln Tyr Asp Thr Arg Leu Asp Asn Ile Ala Thr Gly Ser Ala Ala
 325 330 335
 Ile Glu Tyr Arg Arg Asp Glu Asp Arg Met Leu Gln Leu Thr Tyr Arg
 340 345 350
 Tyr Ala Ser Pro Glu Tyr Ile Gln Ala Thr Leu Pro Asn Tyr Ala Asn
 355 360 365
 Thr Asp Gln Tyr Lys Asp Gly Ile Ser Gln Val Gly Thr Ala Ala Ser
 370 375 380
 Trp Pro Ile Ala Asp Arg Trp Ser Val Val Gly Ala Tyr Tyr Tyr Asp
 385 390 395 400

Thr Asn Ala Gln Lys Pro Ala Asp Gln Met Leu Gly Leu Gln Tyr Asn
 405 410 415
 Ser Cys Cys Tyr Ala Ile Arg Val Gly Tyr Glu Arg Lys Leu Asn Gly
 420 425 430
 Trp Asp Thr Gln Asn Ser Gln Gly Lys Tyr Asp Asn Val Ile Gly Phe
 435 440 445
 Asn Ile Glu Leu Arg Gly Leu Ser Ser Asn Tyr Gly Leu Gly Thr Gln
 450 455 460
 Gln Met Leu Arg Ser Asn Ile Leu Pro Tyr Arg Ser Ser Leu
 465 470 475

<210> 7435

<211> 276

<212> PRT

<213> Enterobacter cloacae

<400> 7435

Tyr Ser Met Thr Asn Arg Val His Gln Gly His Leu Ala Arg Lys Arg
 1 5 10 15
 Phe Gly Gln Asn Phe Leu Asn Asp Gln Phe Val Ile Asp Ser Ile Val
 20 25 30
 Ser Ala Ile Asn Pro Gln Lys Gly Gln Ala Met Val Glu Ile Gly Pro
 35 40 45
 Gly Leu Ala Ala Leu Thr Glu Pro Val Gly Glu Arg Leu Asp Glu Leu
 50 55 60
 Thr Val Ile Glu Leu Asp Arg Asp Leu Ala Ala Arg Leu Gln Thr His
 65 70 75 80
 Pro Phe Leu Gly Pro Lys Leu Thr Ile Tyr Gln Gln Asp Ala Met Thr
 85 90 95
 Met Asn Phe Gly Glu Leu Ser Glu Lys Met Gly Gln Pro Leu Arg Val
 100 105 110
 Phe Gly Asn Leu Pro Tyr Asn Ile Ser Thr Pro Leu Met Phe His Leu
 115 120 125
 Phe Ser Tyr Thr Asp Ala Ile Ala Asp Met His Phe Met Leu Gln Lys
 130 135 140
 Glu Val Val Asn Arg Leu Val Ala Gly Pro Asn Ser Lys Ala Tyr Gly
 145 150 155 160
 Arg Leu Ser Val Met Ala Gln Tyr Tyr Cys Asn Val Ile Pro Val Leu
 165 170 175
 Glu Val Pro Pro Ser Ala Phe Thr Pro Pro Pro Lys Val Asp Ser Ala
 180 185 190
 Val Val Arg Leu Val Pro His Lys Thr Met Pro Tyr Pro Val Lys Asp
 195 200 205
 Leu Arg Val Leu Ser Arg Ile Thr Thr Glu Ala Phe Asn Gln Arg Arg
 210 215 220
 Lys Thr Ile Arg Asn Ser Leu Gly Asn Leu Phe Thr Val Asp Val Leu
 225 230 235 240
 Ala Glu Leu Gly Ile Asp Pro Ala Met Arg Ala Glu Asn Ile Ser Val
 245 250 255
 Glu Gln Tyr Cys Lys Leu Ala Asn Tyr Ile Ser Asp Asn Ala Pro Pro
 260 265 270
 Lys Glu Ser
 275

<210> 7436

<211> 127

<212> PRT

<213> Enterobacter cloacae

<400> 7436

Ala Met Ile Asp Ser Pro Arg Val Cys Val Gln Val Gln Ser Val Tyr


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1           5           10           15
Ile Glu Ser Gln Ser Thr Pro Asp Glu Arg Phe Val Phe Ala Tyr
      20      25      30
Thr Val Thr Ile Arg Asn Leu Gly Arg Met Pro Val Gln Leu Leu Gly
      35      40      45
Arg Tyr Trp Leu Ile Thr Asn Gly Asn Gly Arg Glu Ile Glu Val Gln
      50      55      60
Gly Glu Gly Val Val Gly Glu Gln Pro His Ile Ala Pro Gly Glu Glu
      65      70      75      80
Tyr Gln Tyr Thr Ser Gly Ala Val Ile Glu Thr Pro Leu Gly Thr Met
      85      90      95
Gln Gly His Tyr Glu Met Val Asp Ala Asp Gly Asn Ala Phe Arg Ile
      100     105     110
Ala Ile Pro Val Phe Arg Leu Ala Val Pro Thr Leu Ile His
      115     120     125

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<210> 7437

<211> 350

<212> PRT

<213> Enterobacter cloacae

<400> 7437

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Arg Ser Arg Asn Leu Asp Ala Gly Thr Thr Arg Gln Arg Leu Arg Glu
1           5           10           15
Ser Val Glu Gln Leu Met Lys Pro His Arg Val Val Ile Thr Pro Gly
      20      25      30
Glu Pro Ala Gly Ile Gly Pro Asp Leu Val Val Gln Leu Ala Gln Cys
      35      40      45
Ser Trp Pro Val Glu Leu Val Val Cys Ala Asp Ala Thr Leu Leu Gln
      50      55      60
Asp Arg Ala Ala Leu Leu Gly Leu Pro Leu Thr Leu Leu Pro Tyr Val
      65      70      75      80
Glu Gly Gln Gln Pro Ala Pro Gln Gln Ser Gly Thr Leu Thr Leu Leu
      85      90      95
Ser Val Pro Leu Arg Ala Pro Val Val Pro Gly Glu Leu His Thr Glu
      100     105     110
Asn Gly His Tyr Val Val Glu Thr Leu Ala Arg Ala Cys Asp Gly Cys
      115     120     125
Leu Gln Gly Glu Phe Ala Ala Leu Ile Thr Gly Pro Val His Lys Gly
      130     135     140
Val Ile Asn Asp Ala Gly Ile Pro Phe Thr Gly His Thr Glu Phe Phe
      145     150     155     160
Glu Glu Arg Ser His Ser Pro Lys Val Val Met Met Leu Ala Thr Glu
      165     170     175
Ala Met Arg Val Ala Leu Val Thr Thr His Leu Pro Ile Lys Ala Ile
      180     185     190
Pro Asp Ala Ile Thr Pro Glu Leu Leu Arg Glu Ile Ile Gly Ile Leu
      195     200     205
His His Asp Leu Gln Thr Lys Phe Gly Ile Pro Gln Pro His Val Leu
      210     215     220
Val Cys Gly Leu Asn Pro His Ala Gly Glu Gly Gly His Met Gly Thr
      225     230     235     240
Glu Glu Ile Asp Thr Ile Ile Pro Val Leu Glu Glu Met Arg Ala Lys
      245     250     255
Gly Met Asn Leu Ser Gly Pro Leu Pro Ala Asp Thr Leu Phe Gln Pro
      260     265     270
Lys Tyr Leu Asp Asn Ala Asp Ala Val Leu Ala Met Tyr His Asp Gln
      275     280     285
Gly Leu Pro Val Leu Lys Tyr Gln Gly Phe Gly Arg Gly Val Asn Ile
      290     295     300
Thr Leu Gly Leu Pro Phe Ile Arg Thr Ser Val Asp His Gly Thr Ala

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<210> 7438
<211> 323
<212> PRT
<213> Enterobacter cloacae
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<210> 7439
<211> 157
<212> PRT
<213> Enterobacter cloacae
```

Cys Ala Ala Gly Cys Gln Gln Arg Asp His Arg His Gln Arg Asp Gly
 1 5 10 15
 Ser Asn Ile Leu Glu Gln Gln Tyr Gly Glu Gly Ala Ala Pro His Leu
 20 25 30
 Arg His Arg Gln Val Thr Leu Val His Ser Leu His Gly Asn Ser Arg
 35 40 45
 Arg Gly Glu Arg Gln Arg His Ala Asp Gln Leu Arg Asp Phe Pro Leu
 50 55 60
 His Pro Glu Gln Asn Ala Glu Pro Ala Gln Gln Thr Ala Gly Gln
 65 70 75 80
 His Leu Gln Ser Thr Ser Ala Lys His Arg Gly Ala Gln Phe Pro Gln
 85 90 95
 Pro Leu Arg Ile Gln Leu Gln Ala Asn His Glu Gln His Lys His His
 100 105 110
 Ala Asp Leu Arg Lys Met Gln Asp Arg Leu Gly Ile Arg His Gln Pro
 115 120 125
 Lys Thr Pro Gly Ala Asn Tyr Thr Pro Gly Asn Gln Ile Ala Glu His
 130 135 140
 Arg Ala Gln Pro Gln Thr Asn Arg His Gly His Asn
 145 150 155

<210> 7440

<211> 1034

<212> PRT

<213> Enterobacter cloacae

<400> 7440

Lys Asn Asn Asn Phe Met Leu Phe Cys Phe Glu Leu Asn Leu Lys Asp
 1 5 10 15
 Ser Gln Tyr Thr Phe Tyr Thr Arg Tyr Leu Met Phe Leu Leu Thr Gln
 20 25 30
 Met Asp Val Tyr Met Ser Lys Lys Phe Phe Lys Leu Asn Asn Thr Thr
 35 40 45
 Lys Thr Leu Gly Lys Ile Phe Pro Ala Leu Leu Ile Cys Thr Pro Ala
 50 55 60
 Val Ala Phe Ser Ala Ile Ile Asp Gln Ser Thr Ser Val Pro Gln Asp
 65 70 75 80
 Phe Ser Ala Asp Ala Glu Tyr Val Ile Asn Lys Asp Val Thr Ile Ser
 85 90 95
 Ser Ala Gly Ser Glu Ala Ala Val Ser Val Thr Gly Phe Thr Thr Thr
 100 105 110
 Thr Thr Thr Asn Tyr Gly Asn Ile Ser Gly Thr Gly Asn Gly Leu Asp
 115 120 125
 Ile Asn Thr Gly Glu Gln Arg Ile Leu Ile Asn Asn Asp Ile Gly Ala
 130 135 140
 Thr Ile Ser Ser Thr Thr Ala Asn Ala Val Asn Ile Gln Ser Met Leu
 145 150 155 160
 Gly Asp Phe Asn Asn Ser Gly Asn Ile Ile Gly Ala Glu Asn Gly Met
 165 170 175
 Phe Val Gly Glu Asn Ser Ser Ala Val Asn Ile Ile Asn Thr Ser Thr
 180 185 190
 Gly Met Ile Lys Gly Lys Thr Gly Leu Ser Thr Arg Tyr Gly Ile Gly
 195 200 205
 Ile Asn Asn Ser Gly Ala Ile Ile Gly Thr Asn Gly Asp Ala Ile Thr
 210 215 220
 Ala Thr Asn Gly Asn Thr Lys Leu Thr Asn Asn Ala Leu Val Glr Gly
 225 230 235 240
 Thr Glu Asn Gly Ile Asn Val Lys Asp Thr Ala Lys Leu Asp Ile Lys
 245 250 255
 Asn Ser Gly Thr Ile Ser Gly Asn Thr Ala Ala Ile Met Phe Ala Ser
 260 265 270

Asn	Lys	Asn	Asn	Thr	Leu	Val	Leu	Asp	Thr	Gly	Ser	Val	Leu	Val	Gly
		275					280					285			
Asp	Val	Ile	Ser	Thr	Asn	Ser	Thr	Gly	Asn	Thr	Leu	Thr	Leu	Ile	Gly
	290					295					300				
Thr	Gly	Thr	Glu	Asp	Ser	Asn	Phe	Val	Gly	Leu	Asn	Glu	Gly	Asp	Gly
305					310					315					320
Phe	Ala	Ser	Val	Thr	Met	Asn	Gly	Glu	Asn	Trp	Ala	Leu	Ser	Gly	Asp
				325					330						335
Ile	Asp	Ile	Ile	Gly	Ser	Val	Asp	Ser	Leu	Met	Ile	Asp	Lys	Gly	Ala
		340						345					350		
Leu	Thr	Leu	Ala	Gly	Glu	Val	Ser	Asn	Thr	Gly	Asn	Thr	Arg	Val	Ala
		355						360					365		
Lys	His	Ala	Ser	Leu	Gln	Leu	Gly	Asp	Gly	Glu	Lys	Thr	Ala	Thr	Leu
	370					375						380			
Ser	Gly	Gly	Ile	Thr	Asn	Asn	Gly	Thr	Val	Ile	Phe	Asn	Gln	Gly	Ser
385					390					395					400
Asp	Phe	Thr	Phe	Ala	Thr	Asp	Met	Thr	Gly	Ser	Gly	Asn	Val	Glu	Lys
				405					410						415
Val	Asp	Ser	Asn	Thr	Leu	Thr	Leu	Thr	Gly	Lys	Asn	Ser	Tyr	Lys	Gly
			420						425					430	
Asp	Thr	Val	Leu	His	Gly	Gly	Thr	Thr	Leu	Val	Ser	Thr	Gly	Ala	Thr
		435						440					445		
Leu	Gly	Val	Lys	Gly	Ser	Asn	Ala	Thr	Val	Thr	Val	Glu	Asn	Gly	Ala
	450					455						460			
Thr	Phe	Ala	Thr	Ala	Gly	Glu	Val	Asn	Asn	Asn	Ile	Ala	Val	Leu	Ser
465					470					475					480
Gly	Gly	Thr	Leu	Ala	Ala	Trp	Asn	Ala	Val	Gln	Gly	Asn	Ser	Thr	Leu
				485					490						495
Ser	Ala	Ser	Asp	Val	Asp	Thr	Ile	Asn	Gly	Asn	Val	Thr	Asn	Gly	Gly
			500					505					510		
Thr	Leu	Leu	Leu	Ser	Ala	Ala	Asp	Asn	Ser	Val	Gly	Asn	Asn	Phe	Ser
		515						520					525		
Ile	Asn	Gly	Asp	Tyr	Thr	Gly	Ser	Asp	Gly	Ser	Gln	Ile	Val	Met	Asn
	530					535						540			
Ser	Thr	Leu	Gly	Glu	Asp	Asn	Ser	Pro	Thr	Asp	His	Leu	Thr	Ile	Thr
545					550					555					560
Gly	Ser	Ser	Phe	Gly	Gln	Ser	Gly	Val	Ser	Ile	Thr	Asn	Ile	Gly	Gly
				565					570						575
Ala	Gly	Ala	Gln	Thr	Ile	Asn	Gly	Met	Glu	Ile	Val	Ser	Ile	Gly	Gly
			580					585					590		
Ser	Ser	Glu	Ala	Gln	Leu	Thr	Leu	Ala	Lys	Pro	Val	Val	Ala	Gly	Ala
		595						600					605		
Trp	Glu	Tyr	Asn	Leu	Tyr	Gln	His	Ser	Asp	Gly	Asn	Trp	Tyr	Leu	Glu
	610					615						620			
Ser	Lys	Ala	Thr	Pro	Ser	Asp	Asp	Pro	Ser	Asp	Asp	Thr	Asp	Asp	Gly
625					630					635					640
Gly	Asn	Thr	Asp	Asp	Gly	Gly	Asn	Thr	Asp	Asn	Gly	Gly	Asn	Thr	Asp
				645					650						655
Asn	Gly	Gly	Asn	Thr	Asp	Asn	Gly	Gly	Asn	Thr	Asp	Asn	Gly	Gly	Asn
			660					665					670		
Thr	Asp	Asn	Gly	Gly	Asn	Thr	Asp	Asn	Gly	Gly	Asn	Thr	Asp	Asn	Gly
		675						680					685		
Gly	Asn	Thr	Asp	Asn	Gly	Gly	Asn	Thr	Asp	Asn	Gly	Gly	Asn	Thr	Asp
	690					695					700				
Asn	Gly	Gly	Asn	Thr	Asp	Asn	Gly	Gly	Ser	Thr	Asp	Asn	Gly	Gly	Asn
705					710					715					720
Asn	Ala	Pro	Glu	Val	Met	Ala	Pro	Glu	Val	Gly	Ala	Tyr	Leu	Gly	Asn
				725						730					735
Tyr	Leu	Ala	Ala	Gln	Gly	Met	Phe	Leu	His	Lys	Arg	Asp	Asp	Arg	Asp
			740					745					750		
Gln	Ile	Thr	Phe	Arg	Asn	Glu	Asp	Asp	Leu	Asn	Thr	Trp	Met	Tyr	Val

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<210> 7441
<211> 407
<212> PRT
<213> Enterobacter cloacae
```

Arg	Phe	Met	Ser	Pro	Ile	Glu	Lys	Ser	Ser	Lys	Leu	Asp	Asn	Val	Cys
1				5					10					15	
Tyr	Asp	Ile	Arg	Gly	Pro	Val	Leu	Lys	Glu	Ala	Lys	Arg	Leu	Glu	Glu
			20					25					30		
Glu	Gly	Asn	Lys	Val	Leu	Lys	Leu	Asn	Ile	Gly	Asn	Pro	Ala	Pro	Phe
		35					40				45				
Gly	Phe	Glu	Ala	Pro	Asp	Glu	Ile	Leu	Val	Asp	Val	Ile	Arg	Asn	Leu
	50					55				60					
Pro	Thr	Ala	Gln	Gly	Tyr	Cys	Asp	Ser	Lys	Gly	Leu	Tyr	Ser	Ala	Arg
65				70					75					80	
Lys	Ala	Ile	Met	Gln	His	Tyr	Gln	Ala	Arg	Gly	Met	Arg	Asp	Val	Thr
			85					90					95		
Val	Glu	Asp	Ile	Tyr	Ile	Gly	Asn	Gly	Val	Ser	Glu	Leu	Ile	Val	Gln
			100					105					110		
Ala	Met	Gln	Ala	Leu	Leu	Asn	Ser	Gly	Asp	Glu	Met	Leu	Val	Pro	Ala
		115					120				125				
Pro	Asp	Tyr	Pro	Leu	Trp	Thr	Ala	Ala	Val	Ser	Leu	Ser	Ser	Gly	Lys
	130					135					140				
Ala	Val	His	Tyr	Leu	Cys	Asp	Glu	Ser	Ser	Asp	Trp	Phe	Pro	Asp	Leu

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145          150          155          160
Asp Asp Ile Arg Ala Lys Ile Thr Pro Arg Thr Arg Gly Ile Val Ile
165          170          175
Ile Asn Pro Asn Asn Pro Thr Gly Ala Val Tyr Ser Lys Glu Leu Leu
180          185          190
Met Glu Ile Val Glu Ile Ala Arg Gln His Asn Leu Ile Ile Phe Ala
195          200          205
Asp Glu Ile Tyr Asp Lys Ile Leu Tyr Asp Ala Ala Gln His His Ser
210          215          220
Ile Ala Ala Leu Ala Pro Asp Leu Leu Thr Val Thr Phe Asn Gly Leu
225          230          235          240
Ser Lys Thr Tyr Arg Val Ala Gly Phe Arg Gln Gly Trp Met Val Leu
245          250          255
Asn Gly Pro Lys Lys His Ala Lys Gly Tyr Ile Glu Gly Leu Glu Met
260          265          270
Leu Ala Ser Met Arg Leu Cys Ala Asn Val Pro Ala Gln His Ala Ile
275          280          285
Gln Thr Ala Leu Gly Gly Tyr Gln Ser Ile Ser Glu Phe Ile Val Pro
290          295          300
Gly Gly Arg Leu Tyr Glu Gln Arg Asn Arg Ala Trp Glu Leu Ile Asn
305          310          315          320
Asp Ile Pro Gly Val Ser Cys Val Lys Pro Asn Gly Ala Leu Tyr Met
325          330          335
Phe Pro Lys Ile Asp Ala Lys Arg Phe Asn Ile His Asp Asp Gln Lys
340          345          350
Met Val Leu Asp Phe Leu Leu Gln Glu Lys Val Leu Leu Val Gln Gly
355          360          365
Thr Ala Phe Asn Trp Pro Trp Pro Asp His Val Arg Ile Val Thr Leu
370          375          380
Pro Arg Glu Asp Asp Leu Glu Met Ala Ile Ser Arg Phe Gly Arg Phe
385          390          395          400
Leu Ser Gly Tyr His Gln
405

```

<210> 7442

<211> 201

<212> PRT

<213> Enterobacter cloacae

<400> 7442

```

Pro Met Ser Gln Ser His Phe Phe Ala His Leu Ser Arg Leu Lys Leu
1      5      10      15
Ile Asn Arg Trp Pro Leu Met Arg Asn Val Arg Thr Glu Asn Val Ser
20     25     30
Glu His Ser Leu Gln Val Ala Met Val Ala His Ala Leu Ala Ala Ile
35     40     45
Lys Asn Arg Lys Phe Asn Gly Gln Val Asn Ala Glu Arg Ile Ala Leu
50     55     60
Leu Ala Met Tyr His Asp Ala Ser Glu Val Leu Thr Gly Asp Leu Pro
65     70     75     80
Thr Pro Val Lys Tyr Phe Asn Ser Gln Ile Ala Gln Glu Tyr Lys Ala
85     90     95
Ile Glu Lys Ile Ala Gln Gln Lys Leu Ile Asp Met Val Pro Glu Glu
100    105    110
Leu Arg Asp Ile Phe Gly Pro Leu Ile Asp Glu His Gln Tyr Thr Glu
115    120    125
Glu Glu Lys Ser Leu Val Lys Gln Ala Asp Ala Leu Cys Ala Tyr Leu
130    135    140
Lys Cys Leu Glu Glu Leu Ser Ala Gly Asn Asn Glu Phe Leu Leu Ala
145    150    155    160
Lys Thr Arg Leu Glu Lys Thr Leu Glu Ser Arg Arg Ser Glu Glu Met

```

```
<210> 7443
<211> 145
<212> PRT
<213> Enterobacter cloacae
```

145

<210> 7444
<211> 208
<212> PRT
<213> Enterobacter cloacae

<400> 7444																
Leu	Ser	Val	Glu	His	Phe	Asp	Thr	Val	Arg	His	Trp	Leu	Lys	Asn	Ala	
1				5					10					15		
Tyr	Ile	Pro	Val	Met	Glu	Met	Gly	Ala	Met	Arg	Ala	Asp	Pro	Ile	Asp	
			20					25					30			
Met	Asn	Ile	Gly	Ile	Asp	Asn	Val	Ala	Ala	Met	Tyr	Glu	Leu	Thr	Glu	
		35					40					45				
Met	Val	Ile	Gln	Arg	Gly	Tyr	Gln	Asn	Ile	Gly	Val	Leu	Cys	Ala	Asn	
	50					55					60					
Gln	Glu	Gln	Trp	Ile	Phe	Gln	Gln	His	Leu	Gln	Gly	Trp	Tyr	Lys	Ala	
65					70					75					80	
Met	Leu	Arg	His	His	Leu	Ala	Pro	Asn	Arg	Val	Ile	Asn	Ala	Ala	Met	
				85					90					95		
Pro	Pro	Asn	Phe	Ser	Thr	Gly	Ala	Ala	Gln	Leu	Pro	Glu	Phe	Leu	Leu	
			100					105					110			
Ala	Trp	Pro	Glu	Leu	Asp	Ala	Leu	Val	Cys	Val	Ser	Asp	Glu	Leu	Ala	
		115					120					125				
Cys	Gly	Ala	Leu	Tyr	Glu	Cys	Gln	Arg	Arg	Arg	Ile	Lys	Val	Pro	Asp	
	130					135					140					
Asp	Leu	Ala	Val	Val	Gly	Phe	Gly	Asp	Ser	Asp	Val	Ser	Arg	Val	Cys	
145					150					155				160		
Gln	Pro	Pro	Leu	Thr	Met	Ala	Val	Pro	His	Arg	Lys	Ile	Gly	Ile		
				165				170						175		

Glu Ala Gly Lys Ala Leu Leu Glu Arg Leu Asn Asp Gly Asp Trp Arg
 180 185 190
 Asp His Lys Pro Ile Ala Ser Ser Leu Cys Leu Arg Glu Ser Cys
 195 200 205

<210> 7445

<211> 413

<212> PRT

<213> Enterobacter cloacae

<400> 7445

Arg Phe Phe Ser His Val Ser Ile Ile Gly Thr Ser Met Ser Ser Lys
 1 5 10 15
 Leu Val Leu Val Leu Asn Cys Gly Ser Ser Ser Leu Lys Phe Ala Ile
 20 25 30
 Ile Asp Ala Leu Asn Gly Asp Glu Tyr Leu Ser Gly Leu Ala Glu Cys
 35 40 45
 Phe His Leu Pro Glu Ala Arg Ile Lys Trp Lys Met Asp Gly Ser Lys
 50 55 60
 Gln Glu Ala Ala Leu Gly Ala Gly Ala Ala His Ser Glu Ala Leu Asn
 65 70 75 80
 Phe Ile Val Asn Thr Ile Leu Ala Gln Lys Pro Glu Leu Ser Ala Gln
 85 90 95
 Leu Thr Ala Ile Gly His Arg Ile Val His Gly Gly Glu Lys Tyr Thr
 100 105 110
 Ser Ser Val Val Ile Asp Asp Ser Val Ile Gln Gly Ile Lys Asp Ser
 115 120 125
 Ala Ser Phe Ala Pro Leu His Asn Pro Ala His Leu Ile Gly Ile Ala
 130 135 140
 Glu Ala Leu Lys Ser Phe Pro Ser Leu Lys Asp Lys Asn Val Ala Val
 145 150 155 160
 Phe Asp Thr Ala Phe His Gln Thr Met Pro Glu Glu Ser Tyr Leu Tyr
 165 170 175
 Ala Leu Pro Tyr Ser Leu Tyr Lys Glu His Gly Val Arg Arg Tyr Gly
 180 185 190
 Ala His Gly Thr Ser His Phe Tyr Val Thr Gln Glu Ala Ala Lys Val
 195 200 205
 Leu Asn Lys Pro Val Glu Glu Val Asn Ile Ile Thr Cys His Leu Gly
 210 215 220
 Asn Gly Gly Ser Val Ser Ala Ile Arg Asn Gly Lys Cys Val Asp Thr
 225 230 235 240
 Ser Met Gly Leu Thr Pro Leu Glu Gly Leu Val Met Gly Thr Arg Ser
 245 250 255
 Gly Asp Ile Asp Pro Ala Ile Ile Phe His Leu His Asp Thr Leu Gly
 260 265 270
 Met Ser Val Asp Asp Ile Asn Lys Met Leu Thr Lys Glu Ser Gly Leu
 275 280 285
 Leu Gly Leu Thr Glu Val Thr Ser Asp Cys Arg Tyr Val Glu Asp Asn
 290 295 300
 Tyr Ala Glu Lys Ala Asp Ala Lys Arg Ala Met Asp Val Tyr Cys His
 305 310 315 320
 Arg Leu Ala Lys Tyr Ile Gly Ser Tyr Thr Ala Leu Met Glu Gly Arg
 325 330 335
 Leu Asp Ala Val Ile Phe Thr Gly Gly Ile Gly Glu Asn Ala Ala Met
 340 345 350
 Val Arg Glu Leu Ser Leu Gly Lys Leu Gly Val Leu Gly Phe Glu Val
 355 360 365
 Asp His Glu Arg Asn Leu Ala Ala Arg Phe Gly Lys Ser Gly Phe Ile
 370 375 380
 Asn Lys Glu Gly Thr Arg Pro Ala Ile Val Ile Pro Thr Asn Glu Glu
 385 390 395 400

Leu Val Ile Ala Gln Asp Ala His Arg Leu Thr Ala
 405 410

<210> 7446

<211> 715

<212> PRT

<213> Enterobacter cloacae

<400> 7446

Thr	Val	Ser	Arg	Thr	Ile	Met	Leu	Ile	Pro	Thr	Gly	Thr	Ser	Val	Gly
1				5					10					15	
Leu	Thr	Ser	Val	Ser	Leu	Gly	Val	Ile	Arg	Ala	Met	Glu	Arg	Lys	Gly
			20					25					30		
Val	Arg	Leu	Ser	Val	Phe	Lys	Pro	Ile	Ala	Gln	Pro	Arg	Ala	Gly	Gly
		35					40					45			
Asp	Ala	Pro	Asp	Gln	Thr	Thr	Thr	Ile	Val	Arg	Lys	Asn	Ser	Asn	Leu
	50					55					60				
Pro	Ala	Ala	Glu	Pro	Leu	Lys	Met	Ser	His	Val	Glu	Ser	Leu	Leu	Ser
65					70					75					80
Ser	Asn	Gln	Lys	Asp	Val	Leu	Met	Glu	Glu	Ile	Ile	Ala	Asn	Tyr	His
			85						90					95	
Ala	Asn	Ala	Gln	Asp	Ala	Glu	Val	Val	Leu	Val	Glu	Gly	Leu	Val	Pro
			100					105					110		
Thr	Arg	Lys	His	Gln	Phe	Ala	Gln	Ser	Leu	Asn	Phe	Glu	Ile	Ala	Lys
	115						120					125			
Thr	Leu	Asn	Ala	Glu	Ile	Val	Phe	Val	Met	Ser	Gln	Gly	Thr	Asp	Thr
	130					135						140			
Pro	Glu	Gln	Leu	Lys	Glu	Arg	Ile	Glu	Leu	Thr	Arg	Ser	Ser	Phe	Gly
145					150					155					160
Gly	Ala	Lys	Asn	Thr	Ser	Ile	Thr	Gly	Val	Ile	Val	Asn	Lys	Leu	Asn
			165						170					175	
Ala	Pro	Val	Asp	Glu	Gln	Gly	Arg	Thr	Arg	Pro	Asp	Leu	Ser	Glu	Ile
			180					185					190		
Phe	Asp	Asp	Ser	Ser	Lys	Ala	Lys	Val	Ile	Lys	Val	Asp	Pro	Ala	Lys
	195						200					205			
Leu	Gln	Asp	Ser	Ser	Pro	Leu	Pro	Val	Leu	Gly	Ala	Val	Pro	Trp	Ser
	210					215					220				
Phe	Asp	Leu	Ile	Ala	Thr	Arg	Ala	Ile	Asp	Met	Ala	Arg	His	Leu	Asn
225					230					235					240
Ala	Thr	Val	Ile	Asn	Glu	Gly	Asp	Ile	Asn	Thr	Arg	Arg	Val	Lys	Ser
			245						250					255	
Val	Thr	Phe	Cys	Ala	Arg	Ser	Ile	Pro	His	Met	Leu	Glu	His	Phe	Arg
			260					265					270		
Ala	Gly	Ser	Leu	Leu	Val	Thr	Ser	Ala	Asp	Arg	Pro	Asp	Val	Leu	Val
	275						280					285			
Ala	Ala	Cys	Leu	Ala	Ala	Met	Asn	Gly	Val	Glu	Ile	Gly	Ala	Ile	Leu
	290					295					300				
Leu	Thr	Gly	Gly	Tyr	Glu	Met	Asp	Ala	Arg	Ile	Ser	Lys	Leu	Cys	Glu
305					310					315					320
Arg	Ala	Phe	Ala	Thr	Gly	Leu	Pro	Val	Phe	Met	Val	Asn	Thr	Asn	Thr
			325						330					335	
Trp	Gln	Thr	Ser	Leu	Ser	Leu	Gln	Ser	Phe	Asn	Leu	Glu	Val	Pro	Val
			340					345					350		
Asp	Asp	His	Glu	Arg	Ile	Glu	Lys	Val	Gln	Glu	Tyr	Val	Ala	Gly	Tyr
		355					360					365			
Ile	Asn	Ala	Asp	Trp	Ile	Glu	Ser	Leu	Thr	Ala	Thr	Ser	Glu	Arg	Ser
	370					375						380			
Arg	Arg	Leu	Ser	Pro	Pro	Ala	Phe	Arg	Tyr	Gln	Leu	Thr	Glu	Leu	Ala
385					390					395					400
Arg	Lys	Ala	Gly	Lys	Arg	Val	Val	Leu	Pro	Glu	Gly	Asp	Glu	Pro	Arg
			405						410					415	

Thr Val Lys Ala Ala Ala Ile Cys Ala Glu Arg Gly Ile Ala Thr Cys
 420 425 430
 Val Leu Leu Gly Asn Pro Asp Glu Ile Asn Arg Val Ala Ala Ser Gln
 435 440 445
 Gly Val Glu Leu Gly Ala Gly Ile Glu Ile Val Asp Pro Glu Val Val
 450 455 460
 Arg Glu Ser Tyr Val Ala Arg Leu Val Glu Leu Arg Lys Asn Lys Gly
 465 470 475 480
 Met Thr Glu Ala Val Ala Arg Glu Gln Leu Glu Asp Asn Val Val Leu
 485 490 495
 Gly Thr Leu Met Leu Glu Gln Asp Glu Val Asp Gly Leu Val Ser Gly
 500 505 510
 Ala Val His Thr Thr Ala Asn Thr Ile Arg Pro Pro Leu Gln Leu Ile
 515 520 525
 Lys Thr Ala Pro Gly Ser Ser Leu Val Ser Ser Val Phe Phe Met Leu
 530 535 540
 Leu Pro Glu Gln Val Tyr Val Tyr Gly Asp Cys Ala Ile Asn Pro Asp
 545 550 555 560
 Pro Thr Ala Glu Gln Leu Ala Glu Ile Ala Ile Gln Ser Ala Asp Ser
 565 570 575
 Ala Ile Ala Phe Gly Ile Glu Pro Arg Val Ala Met Leu Ser Tyr Ser
 580 585 590
 Thr Gly Thr Ser Gly Ala Gly Ser Asp Val Glu Lys Val Arg Glu Ala
 595 600 605
 Thr Arg Ile Ala Gln Glu Lys Arg Pro Asp Leu Met Ile Asp Gly Pro
 610 615 620
 Leu Gln Tyr Asp Ala Ala Val Met Ala Asp Val Ala Lys Ser Lys Ala
 625 630 635 640
 Pro Asn Ser Pro Val Ala Gly Arg Ala Thr Val Phe Ile Phe Pro Asp
 645 650 655
 Leu Asn Thr Gly Asn Thr Thr Tyr Lys Ala Val Gln Arg Ser Ala Asp
 660 665 670
 Leu Ile Ser Ile Gly Pro Met Leu Gln Gly Met Arg Lys Pro Val Asn
 675 680 685
 Asp Leu Ser Arg Gly Ala Leu Val Asp Asp Ile Val Tyr Thr Ile Ala
 690 695 700
 Leu Thr Ala Ile Gln Ser Ser Gln Gln Gln
 705 710 715

<210> 7447

<211> 212

<212> PRT

<213> Enterobacter cloacae

<400> 7447

Arg Leu Ile Arg Lys Leu His His Asn Cys Lys Arg Ala Glu Arg Ala
 1 5 10 15
 Leu Arg Arg Glu Gly Phe Pro Met Val Glu Gln Asn His Leu Ala Ser
 20 25 30
 Thr Glu Trp Val Asp Ile Val Ser Glu Glu Asn Glu Val Ile Ala Gln
 35 40 45
 Ala Ser Arg Glu Gln Met Arg Ala Glu Arg Leu Arg His Arg Ala Thr
 50 55 60
 Tyr Ile Val Val His Asp Gly Met Gly Lys Ile Leu Val Gln Arg Arg
 65 70 75 80
 Thr Asp Thr Lys Asp Phe Leu Pro Gly Met Leu Asp Ala Thr Ala Gly
 85 90 95
 Gly Val Val Gln Ala Asp Glu Val Leu Leu Asp Ser Ala Arg Arg Glu
 100 105 110
 Ala Glu Glu Glu Leu Gly Ile Ala Gly Val Pro Phe Ala Glu His Gly
 115 120 125

Gln Phe Tyr Phe Glu Asp Glu His Cys Arg Val Trp Gly Gly Leu Phe
 130 135 140
 Ser Cys Val Ser His Gly Pro Phe Ala Leu Gln Glu Glu Val Ser
 145 150 155 160
 Glu Val Ser Trp Met Thr Pro Glu Glu Ile Thr Ala Arg Cys Asp Glu
 165 170 175
 Phe Thr Pro Asp Ser Leu Lys Ala Leu Ala Leu Trp Met Thr Arg Asn
 180 185 190
 Ala Lys Asn Glu Ser Ala Lys Pro Glu Asn Lys Ala Glu Lys Glu Glu
 195 200 205
 Glu Ala Glu
 210

<210> 7448

<211> 102

<212> PRT

<213> Enterobacter cloacae

<400> 7448

Trp Gly Val Leu Tyr Ser Lys Lys Gly Ile Thr Met Lys Ile Met Ala
 1 5 10 15
 Ile Cys Gly Ser Gly Leu Gly Ser Ser Phe Met Val Glu Met Asn Ile
 20 25 30
 Lys Lys Val Leu Lys Lys Leu Glu Ile Glu Ala Glu Val Glu His Ser
 35 40 45
 Asp Leu Ser Ser Ala Thr Pro Gly Ala Ala Asp Leu Phe Val Met Ala
 50 55 60
 Lys Asp Ile Ala Ala Ser Ala Ser Val Pro Glu Ser Gln Leu Val Val
 65 70 75 80
 Ile Asn Asn Ile Ile Asp Ile Asn Glu Leu Glu Ala Gln Leu Arg Ala
 85 90 95
 Trp Phe Glu Arg Gln
 100

<210> 7449

<211> 468

<212> PRT

<213> Enterobacter cloacae

<400> 7449

Gly Glu Val Asp Met Phe Ile Leu Glu Thr Leu Asn Phe Val Val Asp
 1 5 10 15
 Ile Leu Lys Val Pro Ser Val Leu Val Gly Leu Ile Ala Leu Ile Gly
 20 25 30
 Leu Val Ala Gln Lys Lys Ala Phe Ser Asp Val Val Lys Gly Thr Ile
 35 40 45
 Lys Thr Ile Leu Gly Phe Ile Val Leu Gly Gly Gly Ala Thr Val Leu
 50 55 60
 Val Gly Ser Leu Asn Pro Leu Gly Gly Met Phe Glu His Ala Phe Asn
 65 70 75 80
 Ile Gln Gly Ile Ile Pro Asn Asn Glu Ala Ile Val Ser Ile Ala Leu
 85 90 95
 Glu Lys Tyr Gly Ala Ser Thr Ala Leu Ile Met Ala Phe Gly Met Val
 100 105 110
 Ala Asn Ile Ile Val Ala Arg Phe Thr Arg Leu Lys Tyr Ile Phe Leu
 115 120 125
 Thr Gly His His Thr Phe Tyr Met Ala Cys Met Ile Gly Val Ile Leu
 130 135 140
 Thr Val Ala Gly Phe Glu Gly Val Gly Leu Val Phe Thr Gly Ser Leu
 145 150 155 160
 Ile Leu Gly Leu Ile Met Ala Phe Phe Pro Ala Ile Ala Gln Arg Tyr

```
<210> 7450
<211> 336
<212> PRT
<213> Enterobacter cloacae
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<400> 7450																
Leu	Arg	Arg	Ala	Lys	Arg	Arg	Ser	Thr	Arg	Arg	Phe	Ala	Asn	Trp	Arg	
1				5					10					15		
Leu	His	Met	Ile	Lys	Val	Ala	Pro	Thr	Gly	Gln	Lys	Asp	Ala	Val	Glu	
			20					25					30			
Met	Arg	Lys	Val	Tyr	Ala	Gly	Phe	Val	Ala	Lys	Gln	Ile	Glu	Ala	Gly	
		35					40					45				
Ser	Glu	Ile	Ile	Ala	Leu	Glu	Ala	Asp	Leu	Met	Ser	Ser	Met	Ala	Met	
	50					55					60					
Asp	Gly	Val	Ala	Arg	Asp	Tyr	Pro	Gln	His	Val	Ile	Asn	Cys	Gly	Ile	
65				70					75					80		
Met	Glu	Ala	Asn	Val	Ile	Gly	Thr	Ala	Ala	Gly	Leu	Ser	Leu	Thr	Gly	
			85					90						95		
Arg	Lys	Pro	Phe	Val	His	Thr	Phe	Thr	Ala	Phe	Ala	Ser	Arg	Arg	Cys	
		100						105				110				
Phe	Asp	Gln	Leu	Phe	Met	Ser	Leu	Asp	Tyr	Gln	Arg	Asn	Asn	Val	Lys	

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<210> 7451
<211> 155
<212> PRT
<213> Enterobacter cloacae
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<210> 7452
<211> 226
<212> PRT
<213> Enterobacter cloacae
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<400> 7452

Cys Leu Thr Glu Val Arg Val Gln Cys Lys Gly Phe Leu Phe Asp Leu
 1 5 10 15
 Asp Gly Thr Leu Val Asp Ser Leu Pro Val Val Glu Arg Ser Trp Cys
 20 25 30
 His Trp Ala Asp Arg His Gly Ile Asp His Gln Asp Val Leu Asn Phe
 35 40 45
 Ile His Gly Lys Gln Ala Ile Thr Ser Leu Arg His Phe Leu Ala Gly
 50 55 60
 Arg Ser Glu Glu Glu Ile Gln Ala Glu Phe Arg Tyr Leu Glu Gln Ile
 65 70 75 80
 Glu Ala Thr Asp Thr Glu Gly Ile Thr Ala Leu Pro Gly Ala Arg Glu
 85 90 95
 Leu Leu Glu His Leu Asn Glu Ala Gln Ile Pro Trp Ala Ile Val Thr
 100 105 110
 Ser Gly Ser Val Pro Val Ala His Ala Arg His Lys Ala Ala Gly Leu
 115 120 125
 Pro Thr Pro Asp Val Phe Ile Thr Ala Glu Arg Val Lys Arg Gly Lys
 130 135 140
 Pro Glu Pro Asp Ala Phe Leu Leu Gly Ala Glu Leu Leu Gly Leu Ala
 145 150 155 160
 Pro Ala Glu Cys Val Val Val Glu Asp Ala Ala Gly Val Leu Ala
 165 170 175
 Gly Leu Asn Ala Gly Ser His Val Ile Ala Val Asn Val Pro Ala Gly
 180 185 190
 Ser Pro Arg Leu Glu Glu Ala Asp Phe Val Leu Asn Thr Leu Thr Ala
 195 200 205
 Ile Asp Val Ser Lys Ala Ser Asp Gly Val Val Thr Val Ser Leu Lys
 210 215 220
 Met
 225

<210> 7453

<211> 615

<212> PRT

<213> Enterobacter cloacae

<400> 7453

Gln Gly His Val Val Asn Gly Glu Leu Ile Trp Val Leu Ser Leu Leu
 1 5 10 15
 Leu Ile Ala Ile Ile Leu Phe Ala Thr Gly Lys Val Arg Met Asp Ala
 20 25 30
 Val Ala Leu Phe Val Ile Val Ala Phe Val Leu Ser Gly Thr Leu Ser
 35 40 45
 Leu Pro Glu Ala Phe Ser Gly Phe Ser Asp Pro Asn Val Ile Leu Ile
 50 55 60
 Ala Ala Leu Phe Ile Ile Gly Asp Gly Leu Val Arg Thr Gly Val Ala
 65 70 75 80
 Thr Met Met Gly Ser Trp Leu Val Lys Val Ala Gly Ser Ser Glu Thr
 85 90 95
 Lys Met Leu Ile Tyr Leu Met Leu Thr Val Ala Gly Leu Gly Ala Phe
 100 105 110
 Met Ser Ser Thr Gly Val Val Ala Ile Phe Ile Pro Val Val Leu Ser
 115 120 125
 Val Cys Met Arg Met Gln Ile Ser Pro Ser Arg Leu Met Met Pro Leu
 130 135 140
 Ser Phe Ala Gly Leu Ile Ser Gly Met Met Thr Leu Val Ala Thr Pro
 145 150 155 160
 Pro Asn Leu Val Val Asn Ser Glu Leu Ile Arg Glu Gly Leu Glu Gly
 165 170 175
 Phe Ser Phe Phe Ser Val Thr Pro Ile Gly Leu Val Val Leu Val Met
 180 185 190

Gly Ile Ile Tyr Met Leu Leu Thr Arg Phe Ala Leu Lys Gly Glu Lys
 195 200 205
 Gln Asp Lys Ala Lys Glu Gly Trp Lys Arg Arg Ser Phe Arg Asp Leu
 210 215 220
 Ile Lys Glu Tyr Arg Leu Thr Gly Arg Ala Arg Arg Leu Ala Ile Arg
 225 230 235 240
 Pro Gly Ser Pro Met Val Gly Gln Arg Leu Asp Asp Leu Lys Leu Arg
 245 250 255
 Glu Arg Tyr Gly Ala Asn Val Ile Gly Val Glu Arg Trp Arg Arg Phe
 260 265 270
 Arg Arg Val Ile Val Asn Val Asn Gly Val Ser Glu Phe Arg Ala Arg
 275 280 285
 Asp Val Leu Leu Ile Asp Met Ser Thr Ala Asp Val Asp Leu Arg Glu
 290 295 300
 Phe Cys Ser Glu Gln Leu Leu Glu Pro Met Val Leu Arg Gly Glu Tyr
 305 310 315 320
 Phe Ser Asp Gln Ala Leu Asp Val Gly Met Ala Glu Val Ser Leu Ile
 325 330 335
 Pro Glu Ser Glu Leu Leu Gly Lys Thr Val Arg Glu Ile Gly Phe Arg
 340 345 350
 Thr Arg Tyr Gly Leu Asn Val Val Gly Leu Lys Arg Asp Gly Val Ala
 355 360 365
 Leu Glu Gly Ala Val Val Asp Glu Pro Ile Leu Leu Gly Asp Ile Phe
 370 375 380
 Leu Val Val Gly Asn Trp Lys Leu Ile Ser Gln Leu Gly Gln Lys Gly
 385 390 395 400
 Arg Asp Phe Val Val Leu Asn Met Pro Ile Glu Glu Ser Asp Ala Ser
 405 410 415
 Pro Ala His Ser Gln Ala Pro His Ala Ile Phe Cys Leu Val Leu Met
 420 425 430
 Val Ala Leu Met Leu Thr Asp Glu Ile Pro Asn Pro Val Ala Ala Ile
 435 440 445
 Ile Ala Cys Leu Leu Met Gly Lys Phe Arg Cys Ile Asp Ala Glu Ser
 450 455 460
 Ala Tyr Lys Ala Ile His Trp Pro Ser Ile Ile Leu Ile Val Gly Met
 465 470 475 480
 Met Pro Phe Ala Leu Ala Leu Gln Lys Thr Gly Gly Val Asp Leu Ile
 485 490 495
 Val Lys Gly Leu Met Asp Ala Gly Gly Gly Tyr Gly Pro Tyr Leu Met
 500 505 510
 Met Val Cys Leu Phe Val Met Cys Ala Thr Ile Gly Leu Phe Ile Ser
 515 520 525
 Asn Thr Ala Thr Ala Val Leu Met Ala Pro Ile Ala Leu Ala Met Ala
 530 535 540
 Lys Ser Met Gly Val Ser Pro Tyr Pro Phe Ala Met Met Val Ala Met
 545 550 555 560
 Ala Ala Ser Ala Ala Phe Met Thr Pro Val Ser Ser Pro Val Asn Thr
 565 570 575
 Leu Val Leu Gly Pro Gly Asn Tyr Arg Phe Ser Asp Phe Val Lys Leu
 580 585 590
 Gly Val Pro Phe Thr Val Leu Val Met Val Val Cys Val Val Leu Ile
 595 600 605
 Pro Val Leu Phe Pro Phe
 610 615

<210> 7454

<211> 298

<212> PRT

<213> Enterobacter cloacae

<400> 7454

Lys Asp Met Ile Asn Ala Asn Arg Pro Ile Met Asn Leu Asp Leu Asp
 1 5 10 15
 Leu Leu Arg Thr Phe Val Ala Val Ala Asp Leu Asn Thr Phe Ala Ala
 20 25 30
 Ala Ala Ala Ala Val Cys Arg Thr Gln Ser Ala Val Ser Gln Gln Met
 35 40 45
 Gln Arg Leu Glu Gln Leu Val Gly Lys Glu Leu Phe Ala Arg His Gly
 50 55 60
 Arg Asn Lys Leu Leu Thr Glu His Gly Ile Gln Leu Leu Gly Tyr Ala
 65 70 75 80
 Arg Lys Ile Leu Arg Phe Asn Asp Glu Ala Cys Met Ser Leu Met Phe
 85 90 95
 Ser Asn Leu Gln Gly Val Leu Thr Leu Gly Ala Ser Asp Glu Ser Ala
 100 105 110
 Asp Thr Ile Leu Pro Phe Leu Leu Asn Arg Ile Ser Ser Val Tyr Pro
 115 120 125
 Lys Leu Ala Leu Asp Val Ser Val Lys Arg Asn Ala Phe Met Val Glu
 130 135 140
 Met Leu Thr Glu Asn Glu Val Asp Leu Val Val Thr Thr His Arg Pro
 145 150 155 160
 Gly Gln Phe Asp Ser Leu Thr Leu Arg Thr Ser Pro Thr His Trp Tyr
 165 170 175
 Cys Ala Ala Glu Tyr Val Leu Gln Lys Gly Glu Pro Ile Pro Leu Val
 180 185 190
 Leu Leu Asp Asp Pro Ser Pro Phe Arg Asp Met Val Leu Ala Ala Leu
 195 200 205
 Asn Glu Ala Ser Ile Pro Trp Arg Leu Ala Tyr Val Ala Ser Thr Leu
 210 215 220
 Pro Ala Val Arg Ala Ala Val Lys Ala Gly Leu Gly Val Thr Ala Arg
 225 230 235 240
 Pro Val Glu Met Met Ser Pro Asp Leu Arg Val Leu Gly Gln Ser Glu
 245 250 255
 Gly Leu Pro Ser Leu Pro Asp Thr Glu Tyr Leu Leu Cys His Asn Ala
 260 265 270
 Ala Ser Asn Asn Glu Leu Ala Lys Val Val Phe Glu Ala Met Glu Asn
 275 280 285
 Tyr His Asn Pro Trp Gln Tyr Ala Ala Val
 290 295

<210> 7455

<211> 185

<212> PRT

<213> Enterobacter cloacae

<400> 7455

Leu Met Lys Leu Met Phe Ala Ser Asp Ile His Gly Ser Leu Pro Ala
 1 5 10 15
 Thr Glu Arg Val Leu Ser Leu Phe Ala Gln Ser Gly Ala Gln Trp Leu
 20 25 30
 Val Ile Leu Gly Asp Val Leu Asn His Gly Pro Arg Asn Ala Leu Pro
 35 40 45
 Glu Gly Tyr Ala Pro Ala Gln Val Ala Glu Lys Leu Asn His Phe Ala
 50 55 60
 Ser Arg Ile Ile Ala Val Arg Gly Asn Cys Asp Ser Glu Val Asp Gln
 65 70 75 80
 Met Leu Leu His Phe Pro Ile Thr Ala Pro Trp Gln Gln Val Leu Met
 85 90 95
 Glu Asn Ser Arg Leu Phe Leu Thr His Gly His Leu Phe Gly Pro Asp
 100 105 110
 Asn Leu Pro Ser Leu Ala Ala Gly Asp Val Leu Val Tyr Gly His Thr
 115 120 125

His Ile Pro Val Ala Glu Lys Arg Gly Ala Phe Tyr His Phe Asn Pro
 130 135 140
 Gly Ser Val Ser Ile Pro Lys Gly Gly Asn Pro Ala Ser Tyr Gly Met
 145 150 155 160
 Tyr Glu Asp Gly Thr Leu Ser Val Ile Ala Leu Asn Asp Gln Gln Val
 165 170 175
 Ile Ala Gln Ile Ala Ile Asn Pro
 180 185

<210> 7456

<211> 149

<212> PRT

<213> Enterobacter cloacae

<400> 7456

Lys Met Leu Lys Lys Trp Ile Tyr Asp Thr Thr Ile Ile Leu Gln Asp
 1 5 10 15
 Ser Val Glu Ser Trp Pro Gln Ala Leu Glu Leu Cys Ala Lys Pro Leu
 20 25 30
 Leu Asp Leu Gln Val Ile Ala Pro Glu Tyr Val Thr Ala Ile Ile Glu
 35 40 45
 Lys His His Thr Leu Gly Pro Tyr Tyr Val Leu Ala Pro Gly Leu Ala
 50 55 60
 Met Pro His Ala Arg Pro Glu Glu Gly Ala Lys Gly Leu Gly Leu Ser
 65 70 75 80
 Leu Leu Lys Leu Lys Gln Gly Val Ser Phe Gly Ala Gly Glu Phe Asp
 85 90 95
 Pro Val Asp Val Ile Val Met Leu Ala Ala Pro Asp Lys His Ser His
 100 105 110
 Ile Glu Met Ile Ser Ala Leu Ala Glu Leu Phe Ser Ser Asp Glu Asp
 115 120 125
 Met Ala Glu Leu His Arg Ala Asn Thr Leu Glu Glu Ile Lys Thr Ile
 130 135 140
 Ile Asp Arg Phe
 145

<210> 7457

<211> 286

<212> PRT

<213> Enterobacter cloacae

<400> 7457

Arg Ala Gly Lys Pro Arg Ser Gln Ile Met Asn Glu Asn Glu Ile Thr
 1 5 10 15
 Glu Leu Ala Arg Gln Ile Arg Leu Glu Thr Leu Lys Ser Leu Thr Gln
 20 25 30
 Leu Gly Phe Gly His Tyr Gly Gly Ser Met Ser Val Val Glu Thr Leu
 35 40 45
 Ala Val Leu Tyr Gly Ala Val Met Lys Ile Asp Pro Ala Asp Pro Asp
 50 55 60
 Trp Pro Glu Arg Asp Tyr Phe Val Leu Ser Lys Gly His Ala Gly Pro
 65 70 75 80
 Ala Leu Tyr Ser Thr Leu Ala Ile Lys Gly Tyr Phe Pro Ile Asp Glu
 85 90 95
 Leu Ser Thr Leu Asn Gln Asn Gly Thr Arg Leu Pro Ser His Pro Asp
 100 105 110
 Arg Leu Lys Thr Arg Gly Val Asp Ala Thr Thr Gly Ser Leu Gly Gln
 115 120 125
 Gly Ile Ser Ile Ala Gly Gly Met Ala Leu Ser His Lys Leu Ala Gly
 130 135 140
 Arg Pro Asn Arg Val Phe Cys Ile Val Gly Asp Gly Glu Leu Asn Glu

145		150		155		160									
Gly	Gln	Cys	Trp	Glu	Ala	Phe	Gln	Phe	Ile	Ala	His	His	Arg	Leu	Asn
				165					170					175	
Asn	Leu	Thr	Val	Phe	Val	Asp	Trp	Asn	Lys	Gln	Gln	Leu	Asp	Gly	Glu
			180					185					190		
Leu	Asp	Glu	Ile	Ile	Ser	Ala	Phe	Asp	Leu	Glu	Gly	Lys	Phe	Arg	Ala
		195					200					205			
Phe	Gly	Phe	Asp	Val	Val	Thr	Val	Lys	Gly	Asp	Asp	Ile	Pro	Ala	Leu
	210					215					220				
Leu	Glu	Val	Thr	Ala	Pro	Ile	Pro	Ala	Ala	Asp	Ala	Arg	Pro	Arg	Val
225					230					235					240
Val	Ile	Leu	Asp	Ser	Ile	Lys	Gly	Gln	Gly	Val	Pro	Tyr	Leu	Glu	Gln
			245					250						255	
Leu	Ser	Asn	Ser	His	His	Leu	Arg	Leu	Thr	Glu	Glu	Ser	Lys	Ala	Ala
		260					265						270		
Leu	Asn	Glu	Thr	Ile	Arg	Gln	Leu	Glu	Ala	Ser	His	Asp			
		275					280					285			

<210> 7458

<211> 183

<212> PRT

<213> Enterobacter cloacae

<400> 7458

Gln	Ser	Val	Thr	Val	Ser	Phe	Phe	Tyr	Ser	Ala	Met	Arg	Tyr	Arg	Ser
1				5				10						15	
Arg	Lys	Met	Glu	Met	Thr	His	Ala	Gln	Arg	Leu	Ile	Leu	Ser	Asn	Gln
		20						25				30			
Tyr	Lys	Met	Met	Thr	Met	Leu	Asp	Pro	Asp	Asn	Ala	Ala	Arg	Tyr	Ser
		35				40					45				
Arg	Leu	Gln	Thr	Ile	Val	Glu	Arg	Gly	Phe	Gly	Leu	Gln	Met	Arg	Glu
	50					55				60					
Leu	Asp	Arg	Glu	Phe	Gly	Glu	Leu	Lys	Glu	Glu	Thr	Cys	Arg	Ile	Val
65				70					75					80	
Ile	Asp	Ile	Met	Glu	Met	Tyr	His	Ala	Leu	His	Val	Ser	Trp	Thr	Asn
			85					90						95	
Leu	Lys	Asp	Gln	Gln	Thr	Ile	Asp	Glu	Arg	Arg	Val	Thr	Phe	Leu	Gly
		100						105					110		
Phe	Asp	Ala	Ala	Thr	Glu	Ala	Arg	Tyr	Leu	Ser	Tyr	Val	Arg	Phe	Met
		115					120					125			
Val	Asn	Thr	Glu	Gly	Arg	Tyr	Thr	His	Phe	Asp	Ala	Gly	Thr	His	Gly
	130					135					140				
Phe	Asn	Ala	Gln	Thr	Pro	Met	Trp	Asp	Lys	Tyr	Gln	Arg	Met	Leu	Ser
145				150					155					160	
Ala	Trp	His	Ala	Cys	Pro	Arg	Gln	Tyr	His	Leu	Ser	Ser	Asn	Glu	Ile
			165					170						175	
Gln	Gln	Ile	Ile	Asn	Ala										
			180												

<210> 7459

<211> 72

<212> PRT

<213> Enterobacter cloacae

<400> 7459

Pro	Val	Lys	Gly	Ile	Thr	Gly	Ala	Val	Leu	Arg	Leu	Ile	Val	Leu	Phe
1				5				10						15	
Thr	Asp	Ser	Val	Asp	Leu	Asp	Ala	Ala	Phe	Leu	Ser	Ala	Asp	Gln	Gly
		20					25						30		
Cys	Ser	Gly	Ala	Tyr	Gly	Leu	Leu	Leu	Leu	Asn	Asn	Ala	Ser	Ala	Thr
		35					40					45			

Gly Glu Gln Tyr Arg Tyr Arg Gln Ala Lys Asn His Ile Phe His Arg
 50 55 60
 Gly Tyr Ile Pro Gly His Ser
 65 70

<210> 7460

<211> 461

<212> PRT

<213> Enterobacter cloacae

<400> 7460

Ile Val Leu Lys Gln Val Pro Gly Asn Ala Leu Thr Gly Pro Thr Lys
 1 5 10 15
 Cys Pro Ala Leu Thr Asp Ala Ala Ser Trp Gln Met Gln Tyr Gly Gly
 20 25 30
 Tyr Met Thr Trp Phe Ile Asp Arg Arg Leu Asn Gly Lys Asn Lys Ser
 35 40 45
 Thr Val Asn Arg Gln Arg Phe Leu Arg Arg Tyr Lys Ala Gln Ile Lys
 50 55 60
 Gln Ser Ile Ser Glu Ala Ile Asn Lys Arg Ser Val Thr Asp Val Asp
 65 70 75 80
 Ser Gly Glu Ser Val Ser Ile Pro Asn Asp Asp Ile Ser Glu Pro Met
 85 90 95
 Phe His Gln Gly Arg Gly Gly Leu Arg His Arg Val His Pro Gly Asn
 100 105 110
 Asp His Phe Val Gln Asn Asp Arg Ile Glu Arg Pro Gln Gly Gly Gly
 115 120 125
 Gly Gly Ser Gly Ser Gly Gln Gly Gln Ala Ser Gln Asp Gly Glu Gly
 130 135 140
 Gln Asp Glu Phe Val Phe Gln Ile Ser Lys Asp Glu Tyr Leu Asp Leu
 145 150 155 160
 Leu Phe Glu Asp Leu Ala Leu Pro Asn Leu Arg Lys Asn Gln His Arg
 165 170 175
 Gln Leu Asn Glu Tyr Lys Thr His Arg Ala Gly Tyr Thr Ala Asn Gly
 180 185 190
 Val Pro Ala Asn Ile Ser Val Val Arg Ser Leu Gln Asn Ser Leu Ala
 195 200 205
 Arg Arg Thr Ala Met Thr Ala Gly Lys Arg Arg Glu Leu Arg Glu Leu
 210 215 220
 Glu Thr Ser Leu Lys Val Val Glu Asn Thr Glu Pro Ala Gln Leu Leu
 225 230 235 240
 Glu Glu Glu Arg Leu Arg Lys Glu Ile Ala Glu Leu Arg Ala Lys Ile
 245 250 255
 Asp Arg Val Pro Phe Ile Asp Thr Phe Asp Leu Arg Tyr Lys Asn Tyr
 260 265 270
 Glu Lys Arg Pro Glu Pro Ser Ser Gln Ala Val Met Phe Cys Leu Met
 275 280 285
 Asp Val Ser Gly Ser Met Asp Gln Ala Thr Lys Asp Met Ala Lys Arg
 290 295 300
 Phe Tyr Ile Leu Leu Tyr Leu Phe Leu Ser Arg Thr Tyr Lys Asn Val
 305 310 315 320
 Glu Val Val Tyr Ile Arg His His Thr Gln Ala Lys Glu Val Asp Glu
 325 330 335
 His Glu Phe Phe Tyr Ser Gln Glu Thr Gly Gly Thr Ile Val Ser Ser
 340 345 350
 Ala Leu Lys Leu Met Asp Glu Val Val Lys Glu Arg Tyr Asp Pro Ala
 355 360 365
 Gln Trp Asn Ile Tyr Ala Ala Gln Ala Ser Asp Gly Asp Asn Trp Ala
 370 375 380
 Asp Asp Ser Pro Leu Cys His Glu Ile Leu Ala Lys Lys Ile Leu Pro
 385 390 395 400

Val Val Arg Tyr Tyr Ser Tyr Ile Glu Ile Thr Arg Arg Ala His Gln
 405 410 415
 Thr Leu Trp Arg Glu Tyr Glu His Leu Gln Ala Met Phe Asp Asn Phe
 420 425 430
 Ala Met Gln His Ile Arg Asp Gln Asp Asp Ile Tyr Pro Val Phe Arg
 435 440 445
 Glu Leu Phe Gln Lys Gln Ser Ser Thr Thr Ser Asn
 450 455 460

<210> 7461

<211> 88

<212> PRT

<213> Enterobacter cloacae

<400> 7461

Val Lys Thr Val Arg Ala Arg Ala His Asn Asn Gly Arg Asn Pro Asn
 1 5 10 15
 Trp Thr Ser Tyr Glu Lys Leu Arg Thr Val Ile Glu Lys Lys Met Phe
 20 25 30
 Ser Asn Thr Glu Glu Leu Leu Pro Val Ile Ser Phe Asn Ala Lys Thr
 35 40 45
 Ser Thr Asp Glu Gln Lys Lys His Asp Asp Phe Val Asp Arg Met Met
 50 55 60
 Glu Lys Gly Tyr Thr Arg Lys Gln Val Arg Leu Leu Cys Glu Trp Tyr
 65 70 75 80
 Leu Arg Val Arg Lys Ser Ser
 85

<210> 7462

<211> 1121

<212> PRT

<213> Enterobacter cloacae

<400> 7462

Arg Ser Val Cys Gly Ser Asn Glu Ser Val Asn Val Met Ala Asp Val
 1 5 10 15
 Ala Ser Leu Ala Val Gly Leu His Leu Asn Ala Ala Asn Phe Lys Ser
 20 25 30
 Gln Leu Met Gly Ala Tyr Gly Asp Ala Glu Asn Ser Ser Lys Arg Phe
 35 40 45
 Asn Arg Asn Ala Gln Glu Asp Ala Lys Arg Thr Asp Glu Ala Tyr Ser
 50 55 60
 Arg Met Gly Lys Thr Ile Ala Gly Val Ala Gly Arg Leu Ala Gly Phe
 65 70 75 80
 Ala Gly Ala Gly Leu Ser Leu Gly Ala Ile Ile Thr Thr Thr Arg Glu
 85 90 95
 Tyr Gly Gln Ala Leu Ser Asp Leu Ser Ala Ile Thr Gly Ala Thr Gly
 100 105 110
 Ala Gln Leu Lys Ser Leu Asp Glu Ala Ala Gln Glu Met Gly Arg Ser
 115 120 125
 Thr Glu Tyr Ser Ala Ser Gln Ala Val Glu Ala Leu Lys Leu Met Ala
 130 135 140
 Ser Ala Lys Pro Glu Leu Leu Gln Thr Ala Asp Gly Leu Thr Glu Ala
 145 150 155 160
 Thr Lys Ser Ala Leu Thr Leu Ala Gln Ala Ala Gly Ser Thr Leu Pro
 165 170 175
 Asp Ala Thr Arg Thr Leu Ala Leu Ser Leu Asn Gln Phe Gly Ala Gly
 180 185 190
 Ala Gln Glu Ala Asp Arg Tyr Ile Asn Val Leu Ala Ala Gly Ala Lys
 195 200 205
 Phe Gly Ala Ser Glu Ile Ala Asp Thr Ala Ala Ala Ile Lys Asn Gly

210	215	220
Gly Val Ala Ala Ala	Gln Ala Gly Val Gly	Phe Glu Thr Leu Asn Ala
225	230	235
Ala Ile Gln Val Leu	Ala Glu Arg Glu Ile Lys Gly Gly Glu Ala Gly	240
245	250	255
Thr Ala Leu Arg Asn Val Ile Leu Ala Leu Glu Lys Gly Thr Asp Lys	260	265
260	265	270
Thr Leu Lys Pro Ser Val Val Gly Leu Ser Gly Ala Leu Asp Asn Leu	275	280
275	280	285
Ser Lys Lys Asn Leu Ser Thr Ala Gln Ala Val Lys Leu Phe Gly Val	290	295
290	295	300
Glu Asn Ile Asn Ala Ala Ser Val Leu Val Asp Asn Arg Ser Lys Leu	305	310
305	310	315
Asn Ala Leu Thr Leu Ala Leu Thr Gly Thr Gln Thr Ala His Glu Gln	325	330
325	330	335
Ala Ala Ile Arg Val Asn Asn Leu Asn Gly Asp Ile Met Gly Leu Thr	340	345
340	345	350
Ser Ala Phe Glu Gly Met Ile Ile Lys Ile Gly Gln Ser Ser Thr Gly	355	360
355	360	365
Pro Leu Arg Ser Gly Ile Gln Ser Val Thr Asp Gly Ile Asn Leu Leu	370	375
370	375	380
Thr Asp Asn Phe Asn Ala Val Ala Ser Val Ala Leu Tyr Thr Leu Ile	385	390
385	390	395
Pro Val Leu Ser Thr Lys Leu Thr Ala Gly Leu Arg Glu Asn Ile Ser	405	410
405	410	415
Ala Trp Gln Gln Asn Gln Ala Ala Val Lys Ala Ala Ala Ala Gln	420	425
420	425	430
Ala Asp Gly Ala Arg Lys Thr Leu Glu Ala Thr Ser Ala Thr Leu Lys	435	440
435	440	445
Arg Asn Asp Ala Glu Phe Gly Tyr Tyr Arg Gln Leu Glu Lys Thr Ala	450	455
450	455	460
Arg Gln His Gly Leu Asn Val Asn Tyr Gln Gly Glu Phe Asn Arg Leu	465	470
465	470	475
Ile Arg Glu Glu Thr Glu Gln Thr Asn Leu Ala Thr Arg Ala Lys Met	485	490
485	490	495
Gln Leu Ala Ala Ala Asn Arg Gln Val Ser Leu Thr Ala Arg Ala Ala	500	505
500	505	510
Ser Val Ala Val Gly Leu Ala Arg Gly Ala Leu Ala Leu Val Gly Gly	515	520
515	520	525
Pro Phe Gly Ala Ala Met Leu Ala Gly Ser Ala Leu Leu Tyr Phe His	530	535
530	535	540
Gln Gln Ala Lys Asp Ala Arg Gln Ser Ala Ile Asn Leu Lys Asp Ala	545	550
545	550	555
Val Ile Glu Thr Thr Ala Ala Leu Met Gln Met Ser Asp Lys Gln Leu	565	570
565	570	575
Ala Val Lys Gln Ile Asp Leu Gln Asp Gln Tyr Glu Asn Gln Val Thr	580	585
580	585	590
Gln Arg Asn Gln Leu Ile Lys Glu Ile Gln Asp Ala Asp Ser Arg Leu	595	600
595	600	605
Asp Ser Leu Gly Gly Phe Asp Pro Phe Arg Gln Lys Lys Gly Val Glu	610	615
610	615	620
Asp Ser Lys Lys Arg Ala Glu Ala Asp Leu Glu Ala Val Asn Lys Gly	625	630
625	630	635
Leu Glu Thr Thr Gln Ser Asn Leu Glu Asn Val Ser Lys Ala Arg Phe	645	650
645	650	655
Leu Val Gln Thr Gly Ile Ala Asp Gln Ala Lys Ser Leu Ala Asn Asp	660	665
660	665	670
Ile Lys Asn Ile Thr Ala Gln Thr Ala Lys Ala Gly Glu Gly Val Thr	675	680
675	680	685
Thr Pro Trp Thr Gly Glu Asp Thr Gln Lys Ala Arg Lys Glu Thr Val	690	695
690	695	700

Asn Gln Tyr Leu Gln Leu Arg Arg Glu Ile Glu Glu Ala His Ala Thr
 705 710 715 720
 Ser Leu Gly Lys Ile Asp Leu Gln Glu Lys Ala Ser Gln Glu Lys Leu
 725 730 735
 Ile Ala Ala Ala Arg Lys Asn Gly Ala Ser Gln Gln Asp Leu Gln Arg
 740 745 750
 Ala Leu Leu Met Asn Ala Glu Asn Tyr Gln Lys Gln Arg Asn Glu Leu
 755 760 765
 Ala Glu Gln Tyr Ser Pro Ala Arg Ser Ala Ile Asn Lys Glu Lys Glu
 770 775 780
 Ala Ser Gln Glu Leu Lys Ser Leu Leu Asp Ala Arg Leu Leu Thr Glu
 785 790 795 800
 Lys Glu Tyr Met Ala Ala Arg Val Thr Leu Ser Gln Glu Thr Ser Arg
 805 810 815
 Gln Ile Leu Gln Ala Gln Ala Asn Ala Leu Ser Ala Pro Arg Leu Glu
 820 825 830
 Leu Ala Gly Asp Val Asp Pro Leu Ala Gln Gln Arg Asn Gln Leu Ala
 835 840 845
 Gln Gln Gln Ser Leu Val Glu Thr Tyr Tyr Arg Asn Gly Ala Leu Ser
 850 855 860
 Lys Gln Gln Tyr Glu Met Leu Met Gln Lys Ser Ser Lys Asp Ser Ala
 865 870 875 880
 Asp Ala Gln Tyr Gln Thr Ala Leu Glu Leu Tyr Arg Ser Gln Ser Glu
 885 890 895
 Phe Asn Asn Leu Ala Ile Gly Leu Val Glu Ala Thr Arg Glu Arg Thr
 900 905 910
 Thr Asn Val Leu Thr Gly Leu Leu Thr Lys Thr Gln Thr Phe Lys Glu
 915 920 925
 Gly Val Ile Asn Leu Phe Ser Thr Leu Thr Gln Ser Ile Ile Gln Asn
 930 935 940
 Leu Val Asp Met Ala Ala Gln Ala Leu Val Thr Asn Thr Ile Leu Ser
 945 950 955 960
 Ser Ile Met Gly Val Gly Ser Ser Val Leu Gly Gly Val Gly Gly Ser
 965 970 975
 Thr Ala Gly Ser Ser Gly Thr Ala Ile Ala Asp Tyr Gly Ser Asn Phe
 980 985 990
 Gln Phe Asn Ala Lys Gly Gly Val Tyr Ser Ser Ser Asp Leu Ser Ala
 995 1000 1005
 Tyr Ser Gly Gln Val Val Asp Asn Pro Thr Phe Phe Ala Phe Ala Lys
 1010 1015 1020
 Gly Ala Gly Val Met Gly Glu Ala Gly Pro Glu Ala Ile Met Pro Leu
 1025 1030 1035 1040
 Thr Arg Ala Ala Asp Gly Ser Leu Gly Val Arg Ala Val Ser Gly Gly
 1045 1050 1055
 Ala Ser Glu Gly Ala Ala Pro Gln Val Phe Ile Thr Ile Asn Gly Asp
 1060 1065 1070
 Gly Ser Thr Ala Ser Gln Ser Ser Gly Gly Leu Glu Lys Phe Gly Lys
 1075 1080 1085
 Ser Val Gly Asn Phe Val Arg Asp Glu Tyr Arg Lys Leu Ile Gln Ala
 1090 1095 1100
 Asp Leu Arg Pro Gly Gly Ala Ile Trp Asn Ser Thr Asn Gly Arg Arg
 1105 1110 1115 1120

<210> 7463

<211> 1340

<212> PRT

<213> Enterobacter cloacae

<400> 7463

Pro Cys Ile Val Cys Val Trp Arg Gly Asp Lys Tyr Arg Arg Thr Gly
 1 5 10 15
 Leu Pro Gly Ser Ala Pro Leu Arg Pro Pro Ala Asn Arg Arg Gly Asn
 20 25 30
 Tyr Phe Arg Arg Asp Leu Cys Arg Arg Ser Ala Val Asp Asn Lys Pro
 35 40 45
 Phe Tyr Lys Pro Pro Ser Gly Gly Phe Phe Tyr Gly Arg Asp Met Ala
 50 55 60
 Asn Lys Ile Thr Gly Arg Lys Gly Gly Ser Ser Ser Arg Thr Pro
 65 70 75 80
 Thr Glu Gln Pro Asp Asp Leu Gln Ser Val Ala Lys Ala Lys Ile Leu
 85 90 95
 Val Ala Leu Gly Glu Gly Glu Phe Ala Gly Gln Leu Thr Gly Lys Asp
 100 105 110
 Ile Tyr Leu Asp Gly Thr Ala Leu Glu Asn Ala Asp Gly Ser Gln Asn
 115 120 125
 Phe Ser Gly Val Thr Trp Glu Phe Arg Ser Gly Thr Gln Ala Gln Lys
 130 135 140
 Tyr Ile Gln Gly Ile Pro Gly Thr Glu Asn Glu Ile Ser Val Gly Thr
 145 150 155 160
 Glu Val Thr Ser Ala Thr Ala Trp Thr Arg Thr Phe Thr Asn Thr Gln
 165 170 175
 Leu Ser Ala Val Arg Leu Arg Leu Lys Trp Pro Ser Leu Phe Lys Gln
 180 185 190
 Glu Asp Asp Gly Asp Leu Val Gly Tyr Ser Val Asn Tyr Ala Ile Asp
 195 200 205
 Leu Gln Thr Asp Gly Gly Thr Trp Gln Thr Val Leu Asn Thr Ser Val
 210 215 220
 Thr Gly Lys Thr Thr Ser Gly Tyr Glu Arg Ser His Arg Ile Asp Leu
 225 230 235 240
 Pro Gln Ala Gly Ser Thr Trp Thr Ile Arg Leu Arg Lys Ile Thr Ala
 245 250 255
 Asp Ala Asn Ser Ala Lys Ile Gly Asp Thr Met Thr Leu Gln Ser Phe
 260 265 270
 Thr Glu Val Ile Asp Ala Lys Leu Arg Tyr Pro Asn Thr Ala Leu Leu
 275 280 285
 Tyr Ile Glu Phe Asp Ser Ser Gln Phe Asn Gly Ser Ile Pro Gln Ile
 290 295 300
 Ser Cys Glu Pro Arg Gly Arg Val Ile Arg Val Pro Asp Thr Tyr Asp
 305 310 315 320
 Pro Glu Thr Arg Ser Tyr Ser Gly Thr Trp Thr Gly Ala Phe Lys Trp
 325 330 335
 Ala Trp Thr Asp Asn Pro Ala Trp Ile Phe Tyr Asp Leu Val Val Ser
 340 345 350
 Asp Arg Phe Gly Leu Gly His Arg Leu Thr Ala Ala Asn Ile Asp Lys
 355 360 365
 Trp Thr Leu Tyr Gln Val Ala Gln Tyr Cys Asp Gln Met Val Pro Asp
 370 375 380
 Gly Lys Gly Gly Asp Gly Thr Glu Pro Arg Tyr Thr Cys Asn Val Tyr
 385 390 395 400
 Ile Gln Asp Arg Asn Asp Ala Tyr Thr Val Leu Arg Asp Phe Ala Ala
 405 410 415
 Ile Phe Arg Gly Met Thr Tyr Trp Gly Gly Asp Gln Ile Val Ala Leu
 420 425 430
 Ala Asp Met Pro Arg Asp Val Asp Tyr Ser Tyr Thr Arg Ala Asn Val
 435 440 445
 Val Gly Gly Arg Phe Thr Tyr Ser Ser Ser Thr Thr Lys Thr Arg Tyr
 450 455 460
 Thr Thr Ala Leu Val Ser Trp Ser Asp Pro Gly Asn Ala Tyr Ala Asp
 465 470 475 480
 Ala Met Glu Pro Val Phe Glu Gln Ala Leu Val Ala Arg Tyr Gly Phe

				485					490					495			
Asn	Gln	Leu	Glu 500	Met	Thr	Ala	Ile	Gly 505	Cys	Thr	Arg	Gln	Ser 510	Glu	Ala		
Asn	Arg	Lys 515	Gly	Arg	Trp	Gly	Ile 520	Leu	Thr	Asn	Asn	Lys 525	Asp	Arg	Val		
Val	Ser 530	Phe	Asp	Val	Gly	Leu 535	Asp	Gly	Asn	Ile	Pro 540	Gln	Pro	Gly	Tyr		
Ile 545	Ile	Ala	Val	Ala	Asp 550	Glu	Leu	Leu	Ser	Gly 555	Lys	Val	Met	Gly	Gly 560		
Arg	Ile	Ser	Ala	Val 565	Asn	Gly	Arg	Val	Ile 570	Lys	Leu	Asp	Arg	Val 575	Ala		
Asp	Ala	Ala	Ala 580	Gly	Asp	Arg	Leu	Ile 585	Leu	Asn	Leu	Pro	Ser 590	Gly	Ala		
Ser	Gln	Ser 595	Arg	Thr	Ile	Gln	Ala 600	Val	Asn	Gly	Glu	Ser 605	Val	Thr	Val		
Thr	Thr 610	Ala	Tyr	Ser	Glu	Thr 615	Pro	Gln	Ala	Glu	Ala 620	Val	Trp	Val	Val		
Glu 625	Ser	Asn	Glu	Leu	Tyr 630	Ala	Gln	Gln	Tyr	Arg 635	Val	Val	Ser	Val	Ala 640		
Asp	Asn	Asp	Asp 645	Gly	Thr	Phe	Thr	Ile	Thr 650	Gly	Ala	Trp	His 655	Asp	Pro		
Asp	Lys	Tyr	Ala 660	Arg	Ile	Asp	Thr	Gly 665	Ala	Ile	Ile	Asp 670	Gln	Arg	Pro		
Val	Ser 675	Val	Ile	Pro	Pro	Gly	Asn 680	Gln	Thr	Pro	Pro	Ala 685	Asn	Ile	Val		
Ile	Ser 690	Ser	Phe	Ser	Val	Val 695	Gln	Gln	Asn	Ile	Ser 700	Val	Glu	Thr	Met		
Arg 705	Val	Ser	Trp	Asp	Gln	Ala 710	Gln	Asn	Ala	Val 715	Ala	Tyr	Glu	Ala	Gln 720		
Trp	Arg	Arg	Asn 725	Asp	Gly	Asn	Trp	Val	Asn 730	Val	Pro	Arg	Ser 735	Ser	Thr		
Thr	Ser	Tyr	Asp 740	Val	Pro	Gly	Ile	Tyr 745	Ala	Gly	Arg	Tyr 750	Leu	Val	Arg		
Val	Arg 755	Ala	Ile	Asn	Ala	Ala 760	Glu	Ile	Ser	Ser	Gly 765	Trp	Gly	Tyr	Ser		
Glu	Glu 770	Lys	Thr	Leu	Thr	Gly 775	Lys	Val	Gly	Asn	Pro 780	Pro	Lys	Pro	Val		
Gly 785	Phe	Ile	Ala	Ser	Asp 790	Asn	Val	Val	Phe	Gly 795	Ile	Glu	Leu	Ser	Trp 800		
Gly	Phe	Pro	Ala 805	Asn	Thr	Asp	Asp	Thr	Leu 810	Lys	Thr	Glu	Ile 815	Gln	Tyr		
Ser	Leu	Thr 820	Gly	Arg	Glu	Asp	Asp	Ala 825	Met	Leu	Leu	Ala 830	Asp	Val	Pro		
Tyr	Pro 835	Gln	Arg	Lys	Tyr	Gln	Gln 840	Met	Gly	Leu	Lys	Ala 845	Gly	Gln	Thr		
Phe	Trp 850	Tyr	Arg	Ala	Gln	Leu 855	Val	Asp	Arg	Ser	Gly 860	Asn	Glu	Ser	Gly		
Tyr 865	Thr	Asp	Phe	Val	Arg 870	Gly	Gln	Ala	Ser	Ile 875	Asp	Val	Ser	Asp	Ile 880		
Thr	Asp	Ala	Ile 885	Leu	Glu	Asp	Met	Lys 890	Ser	Asp	Thr	Phe 895	Lys	Asp			
Leu	Ile	Glu	Asn 900	Ala	Val	Asp	Ser	Ser 905	Gly	Lys	Leu	Ala 910	Glu	Leu	Ala		
Asp	Ala 915	Ile	Lys	Glu	Asn	Ala	Asp 920	Gly	Leu	Ala	Ala 925	Ala	Val	Gly	Ser		
Asn	Lys 930	Gln	Thr	Ala	Glu	Ala 935	Ile	Ile	Gly	Asn	Ala 940	Leu	Ala	Ile	Ala		
Asp 945	Val	Val	Val	Arg	Gln	Thr 950	Ala	Gln	Gln	Gly 955	Ala	Asn	Ser	Ala	Thr 960		
Phe	Glu	Gln	Leu	Arg 965	Glu	Val	Ile	Ala	Thr 970	Glu	Thr	Glu	Ala	Arg	Val 975		

Thr Asp Val Thr Arg Leu Glu Ala Lys Thr Ala Gln Asn Glu Ala Gly
 980 985 990
 Val Thr Glu Val Arg Gln Ala Leu Ser Asp Glu Ala Gln Ala Arg Ala
 995 1000 1005
 Thr Ala Val Asp Gln Leu Thr Ala Ser Thr Gln Val Ile Ser Asp Lys
 1010 1015 1020
 Ala Asp Ser Ala Ser Ser Lys Ala Asp Ala Ala Ser Gly Lys Ala Asp
 1025 1030 1035 1040
 Ala Ala Glu Gln Ala Ser Ser Gln Asn Thr Ala Asp Ile Thr Thr Leu
 1045 1050 1055
 Arg Gln Val Val Thr Asp Thr Thr Ser Ser Met Ala Ser Arg Leu Glu
 1060 1065 1070
 Glu Leu Gly Ala Arg Thr Asp Thr Ala Ser Gly Gly Ile Gln Asn Asn
 1075 1080 1085
 Ala Ile Ala Leu Ile Thr Ser Thr Leu Ala Gln Val Asp Gln Arg Val
 1090 1095 1100
 Arg Leu Ser Ala Gln Tyr Gly Asp Ser Lys Ala Ser Ile Asp Arg Ile
 1105 1110 1115 1120
 Asp Asn Val Met Ala Ser Asp Arg Glu Ala Thr Ala Arg Ser Leu Leu
 1125 1130 1135
 Ser Leu Gln Thr Asp Val Asn Gly Asn Lys Ala Ser Ile Asn Ser Leu
 1140 1145 1150
 Asn Gln Thr Phe Ser Asp Tyr Gln Gln Ala Thr Ala Thr Gln Ile Asn
 1155 1160 1165
 Gly Ile Thr Ala Thr Ile Asn Gly His Thr Ser Ala Ile Thr Thr Asn
 1170 1175 1180
 Ala Gln Ala Ile Ala Asn Val Asn Gly Asp Leu Lys Ala Met Tyr Ser
 1185 1190 1195 1200
 Ile Lys Val Gly Leu Ala Ser Asn Gly Gln Tyr Tyr Ala Ala Gly Met
 1205 1210 1215
 Gly Ile Gly Val Glu Asn Thr Pro Ser Gly Met Gln Ser Gln Val Ile
 1220 1225 1230
 Phe Val Ala Asp Arg Phe Ala Val Thr His Gln Ala Gly Ala Thr Val
 1235 1240 1245
 Thr Leu Pro Phe Val Ile Gln Asn Gly Gln Val Phe Ile Arg Asp Ala
 1250 1255 1260
 Leu Ile Gly Asp Gly Thr Ile Asn Asn Asn Lys Ile Gly Lys Tyr Ile
 1265 1270 1275 1280
 Gln Ser Asn Asn Phe Val Ala Gly Ser Val Gly Trp Arg Leu Asp Lys
 1285 1290 1295
 Gly Gly Thr Phe Glu Asn Tyr Gly Ser Thr Ala Gly Glu Gly Ala Met
 1300 1305 1310
 Lys Gln Thr Asn Gln Thr Ile Ser Val Lys Asp Ala Asn Asn Val Leu
 1315 1320 1325
 Arg Val Gln Ile Gly Arg Ile Thr Gly Thr Trp
 1330 1335 1340

<210> 7464

<211> 254

<212> PRT

<213> Enterobacter cloacae

<400> 7464

Thr Met Ser Leu Asn Ala Asp Tyr Gln Lys Leu Glu Ser Gly Asn Asp
 1 5 10 15
 Val Arg Leu Ile Glu Val Asp Gly Ser Ser Phe Gly Leu Thr Glu Val
 20 25 30
 Leu Arg Phe His Asn Tyr Asn Ile Pro His Thr Glu Glu Glu Ile Val
 35 40 45
 Ala Ala Gly Gly Asp Glu Ala Lys Leu Pro Ala Lys Pro Ile Trp Trp
 50 55 60

Gln Gly Asn Glu Tyr Ser Ala Trp Pro Tyr Gln Leu Glu Gly Leu Glu
 65 70 75 80
 Lys Ser Thr Ser Gly Ser Asn Ala Thr Pro Ser Leu Thr Val Ala Asn
 85 90 95
 Ile Glu Ser Ser Ile Ser Ala Leu Cys Leu Ala Tyr Asp Asp Leu Leu
 100 105 110
 Gln Ala Lys Val Thr Ile His Asp Thr Lys Ala Lys Tyr Leu Asp Ala
 115 120 125
 Lys Asn Phe Ala Gly Gly Asn Pro Thr Ala Asp Pro Thr Gln Glu Lys
 130 135 140
 Leu Gln Val Trp Tyr Ile Asp Gly Lys Thr Thr Glu Leu Ala Gly Glu
 145 150 155 160
 Thr Ile Glu Phe Val Leu Ser Ser Pro Met Asp Leu Gln Gly Gln Met
 165 170 175
 Ile Pro Thr Arg Gln Leu His Ser Leu Cys Thr Trp Cys Ile Arg Asn
 180 185 190
 Lys Tyr Arg Thr Gly Asp Gly Cys Asp Tyr Ala Gly Thr Arg Tyr Phe
 195 200 205
 Asp Lys Asn Asn Asn Pro Val Ser Asp Pro Ser Leu Asp Glu Cys Asn
 210 215 220
 Gly Thr Leu Thr Ala Cys Lys Leu Arg Phe Gly Glu Ser Asn Glu Leu
 225 230 235 240
 Ser Phe Gly Gly Phe Pro Gly Thr Ser Leu Ile Arg Ser
 245 250

<210> 7465

<211> 203

<212> PRT

<213> Enterobacter cloacae

<400> 7465

Lys Val Glu Gly Thr Met Gln Glu Val Met Thr Arg Ile Glu Leu Gly
 1 5 10 15
 Gly Glu Pro Gly Lys Ile Phe Gly Lys Ile His His Arg Leu Ile Asn
 20 25 30
 Lys Val Ser Glu Ala Gly Thr Ala Leu Ala Lys Thr Ile Pro Gly Phe
 35 40 45
 Glu Ser Tyr Met Ile Ser Ser Lys Ser Arg Gly Leu Thr Phe Ala Ile
 50 55 60
 Phe Lys Gly Lys Lys Asn Ile Gly Val Asp Asp Leu Gly Phe Pro Val
 65 70 75 80
 Thr Gly Glu Val Ile Arg Ile Val Pro Val Ile Ile Gly Ser Lys Lys
 85 90 95
 Asp Gly Leu Leu Gln Thr Ile Leu Gly Ala Val Ile Ile Ala Ala Ser
 100 105 110
 Ala Ile Gly Ser Tyr Phe Ala Pro Gly Asn Pro Ile Ser Ala Phe Gly
 115 120 125
 Tyr Lys Phe Gly Ala Ala Met Met Leu Gly Gly Val Val Gln Met Leu
 130 135 140
 Ser Pro Gln Pro Thr Gly Leu Ala Ser Lys Gln Ser Ala Asp Asn Arg
 145 150 155 160
 Ala Ser Tyr Ala Phe Gly Gly Val Thr Asn Thr Ala Ala Gln Gly Tyr
 165 170 175
 Pro Val Pro Leu Leu Tyr Gly Arg Arg Arg Ile Gly Gly Ala Ile Ile
 180 185 190
 Ser Ala Gly Ile Tyr Val Glu Asp Gln Gln
 195 200

<210> 7466

<211> 224

<212> PRT

<213> Enterobacter cloacae

<400> 7466

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Met Ala Glu Tyr Gly Val Leu Leu Thr Thr Thr Ser Gly Glu Val Trp
1      5      10      15
Val Thr Ala Asn Ser Ser Pro Ile Ala Leu Gln Ala Arg Lys Thr Ala
      20      25      30
Ala Leu Gln Gly Thr Ser Gly Phe Asn Thr Lys Val Thr His Thr Phe
      35      40      45
Pro Ala Gly Gln Pro Val Val Ala Phe Val His Cys Thr Val Glu Val
      50      55      60
Glu Ile Thr Gln Thr Ile Ser Gly Asn Thr Ile Thr Ile Asp Phe Leu
65      70      75      80
Arg Pro Asn Ala Thr Gly Thr Ala Tyr Val Tyr Phe Phe Ser Ile Phe
      85      90      95
Pro Gln Thr Lys Pro Asp Tyr Gly Leu Ala Val Trp Asp Ala Ser Gly
      100     105     110
Thr Leu Ile Leu Thr Asn Glu Thr Arg Thr Leu Ser Asp Val Val Thr
      115     120     125
Leu Gly Thr Ala Gly Val Asp Ala Ser Ser Gly Tyr Asn Ile Asn Thr
130     135     140
Thr Leu Val Gly Lys Trp Ala Cys Met Pro Ala Met Leu Gly Leu Ile
145     150     155     160
Thr Gly Val Ile Ser Ala Gly Gly Gln Pro Gln Pro Tyr Ser Ala Ile
      165     170     175
Tyr Lys Ser Met Ala Lys Leu Glu Gly Ser Asn Thr Arg Ile Phe Ala
      180     185     190
Arg Pro Gln Thr Thr Pro Gly Gly Asn Leu Gln Asn Val Thr Tyr Ser
      195     200     205
Asn Leu Arg Asn Val Ile Met Ala Ile Asn Cys Ala Asn Tyr Asp
210     215     220

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<210> 7467

<211> 120

<212> PRT

<213> Enterobacter cloacae

<400> 7467

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Pro Val Leu Asp Ser Glu Lys His Gly Glu Cys Pro Leu Met Gly Phe
1      5      10      15
Ala Ser Pro Ala Thr Asp Tyr Val Glu Arg Gln Leu Ser Pro Ser Val
      20      25      30
Leu Cys Asn Ile Gly Ala Glu Ser Arg Val Leu Glu Thr Asp Val Gly
      35      40      45
Phe Ala Val Ile Glu Pro Ala Thr Lys Lys Arg Pro Gly Asp Val Leu
      50      55      60
Leu Ile Leu Cys Asp Gly His Thr Gln Phe Ala Lys Leu Met Gly Lys
65      70      75      80
Ser Leu Ile Thr Asp Asp Gly Glu Ala Ile Glu Gly Thr Ala Leu Glu
      85      90      95
Glu Val Glu Val Leu Gly Arg Val Thr Phe Phe Ile Asn Arg Ala Leu
      100     105     110
Asp Asp Asp Cys Pro Ala Ile
115      120

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<210> 7468

<211> 374

<212> PRT

<213> Enterobacter cloacae

<400> 7468

Lys Glu Gly Gln Lys Ser Gly Arg Leu Ser Glu Glu Thr Lys Ala Ala
 1 5 10 15
 Val Asp Lys Met Ala Ser Glu Phe Asn Ala Leu Arg Glu Ala Glu Lys
 20 25 30
 Thr Leu Lys Ala Ala Met Gly Glu Leu Glu Gln His Val Ala Gln Met
 35 40 45
 Pro Leu Ala Asn Ala Lys Gln Val Ile Glu Ser Val Gly His Gln Val
 50 55 60
 Ile Ser Ala Glu Ala Leu Lys Thr Phe Ala Ser Ser Val Glu Gly Gly
 65 70 75 80
 Lys Arg Ile Ser Ile Pro Val Lys Ala Ala Leu Thr Ser Val Asp Val
 85 90 95
 Pro Asp Gly Val Val Glu Pro Gln Arg Leu Pro Gly Ile Asp Thr Ala
 100 105 110
 Pro Lys Gln Arg Leu Phe Ile Arg Asp Leu Ile Ala Pro Gly Arg Thr
 115 120 125
 Ser Ser Ser Ala Ile Phe Trp Val Gln Gln Thr Gly Phe Thr Asn Asn
 130 135 140
 Ala Lys Val Val Pro Glu Asn Thr Gln Lys Pro Tyr Ser Glu Ile Glu
 145 150 155 160
 Phe Thr Pro Lys Ile Thr Gly Val Ser Thr Ile Ala His Leu Phe Lys
 165 170 175
 Ala Ser Lys Gln Ile Leu Asp Asp Phe Ala Gln Leu Gln Ser Thr Val
 180 185 190
 Asp Ala Glu Met Arg Tyr Gly Leu Lys Tyr Ala Glu Glu Gln Glu Ile
 195 200 205
 Leu Phe Gly Asp Gly Thr Gly Val His Leu His Gly Ile Val Pro Gln
 210 215 220
 Ala Ser Ala Phe Asn Pro Ala Phe Thr Val Glu Gln Gln Ser Gly Ile
 225 230 235 240
 Asp Asp Leu Arg Leu Ala Met Leu Gln Ala Gln Leu Ala Arg Phe Pro
 245 250 255
 Ala Ser Gly His Val Leu His Phe Ile Asp Trp Ala Arg Ile Glu Leu
 260 265 270
 Thr Lys Asp Ser Leu Gly Arg Tyr Ile Leu Ala Asn Pro Ala Ala Leu
 275 280 285
 Thr Gly Pro Thr Leu Trp Gly Leu Pro Val Val Ala Thr Glu Ala Ala
 290 295 300
 Ala Phe Gln Gly Lys Phe Leu Thr Gly Ala Phe Asn Ala Gly Ala Gln
 305 310 315 320
 Ile Phe Asp Arg Glu Asp Ala Asn Val Val Ile Ser Thr Glu Asn Ala
 325 330 335
 Asp Asp Phe Glu Lys Asn Met Ile Thr Ile Arg Cys Glu Glu Arg Leu
 340 345 350
 Ala Leu Ala Val Lys Arg Pro Glu Ala Phe Val Tyr Gly Ser Phe Ser
 355 360 365
 Thr Gly Ala Gly Ser
 370

<210> 7469

<211> 129

<212> PRT

<213> Enterobacter cloacae

<400> 7469

Ser Ser Ser Arg Arg Gly Asn Leu Glu Gln Tyr Lys Arg Glu Ala Val
 1 5 10 15
 Met Ala Leu Glu Thr Phe Asn Trp Ser Pro Arg Val Asn Pro Ser Gln
 20 25 30
 Asp Val Thr Met Arg Thr Arg Glu Ala Gln Phe Gly Asp Gly Tyr Thr
 35 40 45

Gln	Thr	Ser	Gly	Asp	Gly	Leu	Asn	Pro	Arg	Ser	Gln	Ser	Trp	Asp	Leu
	50					55					60				
Thr	Phe	Val	Gly	Leu	Glu	Pro	Tyr	Ile	Lys	Ser	Ile	Lys	Asp	Phe	Leu
65					70					75					80
Asp	Arg	His	Glu	Gly	Thr	Lys	Ala	Phe	Ala	Trp	Lys	Pro	Pro	Leu	Glu
				85					90					95	
Asp	Leu	Gly	Leu	Tyr	Arg	Cys	Lys	Gln	Tyr	Lys	Pro	Ser	Pro	Met	Gly
			100					105					110		
Gly	Gly	Asn	Trp	Ser	Leu	Thr	Ala	Thr	Phe	Ile	Gln	Ala	Phe	Lys	Pro
		115					120					125			

<210> 7470

<211> 241

<212> PRT

<213> Enterobacter cloacae

<400> 7470

Ser	Gly	Ala	Asp	Met	Arg	Gln	Lys	Thr	Ile	Asp	Ala	Ile	Met	Ala	His
1				5					10					15	
Ala	Ala	Ala	Glu	Tyr	Pro	Arg	Glu	Cys	Cys	Gly	Val	Val	Ala	Gln	Lys
			20					25					30		
Ser	Arg	Val	Glu	Arg	Tyr	Phe	Pro	Cys	Arg	Asn	Leu	Ala	Ala	Thr	Pro
		35					40					45			
Glu	Asp	Asn	Phe	Val	Leu	Cys	Pro	Glu	Asp	Tyr	Ala	Ala	Ala	Glu	Asp
	50					55					60				
Trp	Gly	Thr	Val	Ile	Ala	Ile	Val	His	Ser	His	Pro	Asp	Ala	Thr	Thr
65				70					75						80
Gln	Pro	Ser	Glu	Leu	Asp	Lys	Ala	Gln	Cys	Asp	Ala	Thr	Leu	Leu	Pro
				85					90					95	
Trp	His	Ile	Val	Ser	Trp	Pro	Glu	Gly	Asp	Leu	Arg	Thr	Ile	Gln	Pro
			100					105					110		
Arg	Gly	Glu	Leu	Pro	Leu	Leu	Glu	Arg	Pro	Phe	Val	Leu	Gly	His	Phe
		115					120					125			
Asp	Cys	Trp	Gly	Leu	Val	Met	Ser	Tyr	Phe	Arg	Gln	Thr	His	Gly	Ile
	130					135					140				
Glu	Leu	His	Asp	Tyr	Arg	Val	Asp	Tyr	Pro	Trp	Trp	Glu	Lys	Asp	Tyr
145					150					155					160
Pro	Asp	Asn	Phe	Tyr	Gln	Asp	Cys	Trp	Tyr	Glu	Cys	Gly	Phe	Arg	Glu
				165					170					175	
Phe	Asp	Gly	Pro	Pro	Lys	Pro	Gly	Asp	Met	Val	Ile	Met	Gln	Val	Gln
			180					185					190		
Ala	Asp	Lys	Trp	Asn	His	Ala	Gly	Ile	Leu	Leu	Glu	Gly	Asn	Met	Leu
		195					200					205			
Leu	His	His	Leu	Tyr	Gly	His	Leu	Ser	Gln	Arg	Val	Pro	Tyr	Gly	Gly
	210					215					220				
Tyr	Trp	Gln	Glu	Arg	Thr	Met	Lys	Ile	Leu	Arg	Tyr	Lys	Ser	Leu	Cys
225					230					235					240

<210> 7471

<211> 466

<212> PRT

<213> Enterobacter cloacae

<400> 7471

Pro	Ala	Val	Ser	Leu	Arg	Met	Gly	Gly	Ala	Val	Cys	Arg	His	Arg	His
1				5					10					15	
Arg	His	Gln	His	Leu	Asn	Val	Phe	Ile	Ser	Leu	Arg	Asn	Ala	Ser	Arg

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<210> 7472
<211> 65
<212> PRT
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<213> Enterobacter cloacae

<400> 7472

Cys Phe Thr Leu Trp Arg Leu Glu Met Ala Asn His Arg Gly Gly Ser
 1 5 10 15
 Gly Asn Phe Ala Glu Asp Arg Glu Arg Ala Ser Glu Ala Gly Arg Lys
 20 25 30
 Gly Gly Gln Ser Ser Gly Gly Asn Phe Lys Asn Asp Pro Gln Arg Ala
 35 40 45
 Ser Glu Ala Gly Lys Lys Gly Gly Lys Asn Ser His Gly Ser Asn Lys
 50 55 60

65

<210> 7473

<211> 222

<212> PRT

<213> Enterobacter cloacae

<400> 7473

Ala Gln Asp Arg Lys Trp Arg Ala Lys Met Thr Gln Gly Ala Val Lys
 1 5 10 15
 Thr Pro Gly Lys Arg Ser Gln Ala Val Ser Ala Lys Lys Gln Ala Ile
 20 25 30
 Leu Ser Ala Ala Leu Glu Thr Phe Ser Gln Phe Gly Ile His Gly Thr
 35 40 45
 Arg Leu Glu Gln Val Ala Glu Gln Ala Gly Val Ser Lys Thr Asn Leu
 50 55 60
 Leu Tyr Tyr Tyr Pro Ser Lys Glu Ala Leu Tyr Val Ala Val Met Gln
 65 70 75 80
 Gln Ile Leu Asp Ile Trp Leu Ala Pro Leu Lys Ala Phe Arg Glu Glu
 85 90 95
 Leu Ala Pro Leu Val Ala Ile Glu Glu Tyr Ile Arg Leu Lys Leu Glu
 100 105 110
 Val Ser Arg Asp Tyr Pro Gln Ala Ser Arg Leu Phe Cys Leu Glu Met
 115 120 125
 Leu Gln Gly Ala Pro Leu Leu Gln Ala Glu Leu Thr Gly Asp Leu Lys
 130 135 140
 Gln Leu Val Asp Asp Lys Ser Ala Ile Ile Ala Gly Trp Val Ala Ser
 145 150 155 160
 Gly Lys Leu Ala Pro Val Asp Pro His Gln Leu Ile Phe Met Ile Trp
 165 170 175
 Ala Ser Thr Gln His Tyr Ala Asp Phe Ala Ala Gln Val Glu Ala Val
 180 185 190
 Thr Gly Lys Thr Leu Gln Asp Glu Ala Phe Phe Gln Ser Thr Leu Glu
 195 200 205
 Asn Val Gln Arg Met Ile Ile Glu Gly Ile Arg Val Arg
 210 215 220

<210> 7474

<211> 217

<212> PRT

<213> Enterobacter cloacae

<400> 7474

Met Trp Phe Ser Met Leu Ala Leu Ala Ser Ala Ser Ile Thr Gly Pro
 1 5 10 15
 Met Ser Val Val Arg Arg Pro Gly Leu Pro Met Arg His Ser Ala Ile
 20 25 30
 Ala Pro Arg Ser Ile Phe Ser Val Trp Ser Ala Thr Ser Ser Cys Lys
 35 40 45

His Ser Thr Arg Arg Ala Glu Gln Arg Trp Pro Ala Leu Ser Lys Ala
 50 55 60
 Glu Ala Ser Thr Ser Thr Thr Thr Cys Ser Val Ser Ala Glu Glu Ser
 65 70 75 80
 Thr Ile Met Ala Phe Met Pro Pro Val Ser Ala Ile Ser Gly Val Gly
 85 90 95
 Arg Pro Cys Ala Ser Arg Arg Val Ala Met Leu Arg Cys Ser Arg Glu
 100 105 110
 Ala Thr Ser Val Glu Pro Val Asn Ile Thr Pro Arg Thr Arg Leu Ser
 115 120 125
 Glu Val Ser Leu Ala Pro Thr Val Ser Pro Arg Pro Gly Ser Ser Cys
 130 135 140
 Thr Thr Pro Ala Gly Thr Pro Ala Ser Ser Arg Met Leu Met Pro Trp
 145 150 155 160
 Ala Ala Ile Ser Gly Val Cys Ser Ala Gly Phe Ala Ser Thr Leu Leu
 165 170 175
 Pro Ala Ala Arg Ala Ala Ala Ile Trp Pro Val Lys Ile Ala Ser Gly
 180 185 190
 Lys Phe His Gly Leu Ile His Thr Thr Gly Pro Ser Gly Arg Trp Val
 195 200 205
 Ser Leu Ser Lys Ser Ser Arg Thr
 210 215

<210> 7475

<211> 178

<212> PRT

<213> Enterobacter cloacae

<400> 7475

Met Glu Asn Ser Phe Val Thr Gly Glu Ser Lys Met Ala Trp Leu Asp
 1 5 10 15
 Thr Leu Leu Asp His Phe Ala His Tyr Pro Thr His Leu Phe Ala Leu
 20 25 30
 Leu Val Val Met Ala Leu Ser Lys Ser Thr Val Leu Val Ser Ser Val
 35 40 45
 Leu Pro Pro Ala Ser Val Met Leu Met Ala Gly Ile Ala Val Ser Gln
 50 55 60
 Ser Ser Leu His Pro Gly Met Thr Trp Leu Ala Val Val Met Gly Ala
 65 70 75 80
 Thr Ala Gly Ser Val Leu Asn Tyr His Ile Gly Gln Leu Met Gly His
 85 90 95
 Thr Arg Leu Val Ser Arg Leu Thr Ala Lys His Ala Asp Lys Ile Leu
 100 105 110
 Arg Val Gln His Gln Leu Gln Lys Asn Gly Val Val Ala Leu Phe Thr
 115 120 125
 Ser Arg Phe Leu Ala Val Leu Arg Tyr Ile Val Pro Leu Ala Ala Gly
 130 135 140
 Met Leu Arg Met Ser Ala Met Lys Val Tyr Val Val Ser Leu Leu Ser
 145 150 155 160
 Ala Cys Ala Trp Ala Ala Leu Tyr Val Gly Ile Val Thr Gly Ile Ser
 165 170 175
 Ile

<210> 7476

<211> 503

<212> PRT

<213> Enterobacter cloacae

<400> 7476

Met Ala Ile Ser Thr Pro Met Leu Val Thr Phe Leu Val Tyr Ile Phe

1 5 10 15
 Gly Met Ile Leu Ile Gly Phe Leu Ala Trp Arg Ser Thr Lys Asn Phe
 20 25 30
 Asp Asp Tyr Ile Leu Gly Gly Arg Ser Leu Gly Pro Met Val Thr Ala
 35 40 45
 Leu Ser Ala Gly Ala Ser Asp Met Ser Gly Trp Leu Leu Met Gly Leu
 50 55 60
 Pro Gly Ala Ile Phe Ile Ser Gly Ile Ser Glu Ser Trp Ile Ala Ile
 65 70 75 80
 Gly Leu Thr Val Gly Ala Trp Ile Asn Trp Lys Leu Val Ala Gly Arg
 85 90 95
 Leu Arg Val His Thr Glu Ala Asn Asn Ala Leu Thr Leu Pro Asp
 100 105 110
 Tyr Phe Thr Gly Arg Phe Glu Asp Asn Ser Arg Ile Leu Arg Ile Ile
 115 120 125
 Ser Ala Val Val Ile Leu Leu Phe Phe Thr Ile Tyr Cys Ala Ser Gly
 130 135 140
 Ile Val Ala Gly Ala Arg Leu Phe Glu Ser Thr Phe Gly Met Ser Tyr
 145 150 155 160
 Glu Thr Ala Leu Trp Ala Gly Ala Ala Ala Thr Ile Leu Tyr Thr Phe
 165 170 175
 Val Gly Gly Phe Leu Ala Val Ser Trp Thr Asp Thr Val Gln Ala Ser
 180 185 190
 Leu Met Ile Phe Ala Leu Ile Leu Thr Pro Val Ile Val Ile Phe Thr
 195 200 205
 Val Gly Gly Phe Gly Glu Ser Leu Glu Val Ile Lys Gln Lys Ser Ile
 210 215 220
 Glu Asn Val Asp Met Leu Lys Gly Leu Asn Phe Val Ala Ile Val Ser
 225 230 235 240
 Leu Met Gly Trp Gly Leu Gly Tyr Phe Gly Gln Pro His Ile Leu Ala
 245 250 255
 Arg Phe Met Ala Ala Asp Ser His His Thr Ile Val His Ala Arg Arg
 260 265 270
 Ile Ser Met Thr Trp Met Ile Leu Cys Leu Ala Gly Ala Cys Ala Val
 275 280 285
 Gly Phe Phe Gly Ile Ala Tyr Phe Asn Asn Asn Pro Ala Gln Ala Gly
 290 295 300
 Ala Val Asn Gln Asn Ala Glu Arg Val Phe Ile Glu Leu Ala Gln Ile
 305 310 315 320
 Leu Phe Asn Pro Trp Ile Ala Gly Ile Leu Leu Ser Ala Ile Leu Ala
 325 330 335
 Ala Val Met Ser Thr Leu Ser Cys Gln Leu Leu Val Cys Ser Ser Ala
 340 345 350
 Ile Thr Glu Asp Leu Tyr Lys Ala Phe Leu Arg Lys Gly Ala Ser Gln
 355 360 365
 Lys Glu Leu Val Trp Val Gly Arg Phe Met Val Leu Leu Val Ala Leu
 370 375 380
 Val Ala Ile Ala Leu Ala Ala Asn Pro Glu Asn Arg Val Leu Gly Leu
 385 390 395 400
 Val Ser Tyr Ala Trp Ala Gly Phe Gly Ala Ala Phe Gly Pro Val Val
 405 410 415
 Leu Phe Ser Val Met Trp Ser Arg Met Thr Arg Asn Gly Ala Leu Ala
 420 425 430
 Gly Met Ile Gly Ala Val Thr Val Ile Val Trp Lys Gln Phe Ala
 435 440 445
 Trp Leu Gly Leu Tyr Glu Ile Ile Pro Gly Phe Ile Phe Gly Ser Ile
 450 455 460
 Gly Ile Val Val Phe Ser Leu Leu Gly Lys Ala Pro Ser Ala Ser Met
 465 470 475 480
 Gln Lys Arg Phe Ala Glu Ala Asp Ala His Tyr His Thr Ala Pro Pro
 485 490 495

Thr Lys Leu Gln Ala Glu
500

<210> 7477

<211> 325

<212> PRT

<213> Enterobacter cloacae

<400> 7477

Thr Val Ile Lys Gly Ile Ala His Tyr Arg Ile Asp Ser Ser Cys Trp
1 5 10 15
Cys Pro Met Ser Val Ser Arg Phe Thr Leu Ser Ile Lys Pro Gln Glu
20 25 30
Ala Ile Leu Ile Leu Ile Thr Met Phe Trp Gly Gly Thr Phe Leu Ala
35 40 45
Val Gln Tyr Ala Val Thr Met Ser Asp Pro Phe Phe Phe Val Gly Leu
50 55 60
Arg Phe Ala Thr Ala Val Ala Val Ala Leu Ile Ser Leu Lys Thr
65 70 75 80
Leu Arg Gly Leu Thr Leu Arg Glu Leu Lys Ala Gly Val Ala Ile Gly
85 90 95
Val Ala Ile Ala Met Gly Tyr Ser Leu Gln Thr Trp Gly Leu Gln Ser
100 105 110
Ile Ser Ser Ser Lys Ser Ala Phe Ile Thr Ala Met Tyr Val Pro Leu
115 120 125
Val Pro Leu Leu Gln Trp Leu Cys Leu Gly Arg Met Pro Gly Leu Met
130 135 140
Ser Cys Ile Gly Ile Val Leu Ala Phe Ile Gly Leu Ile Leu Leu Ala
145 150 155 160
Gly Pro Glu Asn Asn Leu Leu Ala Leu Gly Pro Gly Glu Ile Ile Thr
165 170 175
Leu Val Gly Ala Val Ala Ile Ala Ala Glu Ile Ile Leu Ile Ser Ala
180 185 190
Trp Ala Gly Lys Val Asp Val Lys Arg Val Thr Val Val Gln Leu Ala
195 200 205
Thr Ala Ser Leu Val Ala Phe Ala Thr Met Val Pro Ala Gly Glu Ser
210 215 220
Val Pro Pro Met Ser Thr Gly Leu Ile Val Val Ala Leu Gly Leu Gly
225 230 235 240
Ile Phe Ser Ala Ile Ile Gln Val Thr Met Asn Trp Ala Gln Arg Ser
245 250 255
Val Ser Pro Thr Arg Ala Thr Val Ile Tyr Thr Gly Glu Pro Val Trp
260 265 270
Ala Gly Ile Phe Gly Arg Leu Ala Gly Glu Arg Leu Pro Leu Leu Ala
275 280 285
Leu Val Gly Ala Ala Phe Ile Ile Ala Gly Val Leu Val Ser Glu Leu
290 295 300
Lys Leu Lys Lys Arg Arg Lys Ala Thr Ala Gly Leu Ser Ala Glu Gln
305 310 315 320
Arg Ala Asp Ser
325

<210> 7478

<211> 364

<212> PRT

<213> Enterobacter cloacae

<400> 7478

Asp Val Leu Gln Leu Ile Val Ile Glu Ile Ala Leu Ala Phe Phe Phe
1 5 10 15
Leu His Ala Glu Ser Gly Leu Phe Ile Ile Lys Tyr Val Ser Gly Phe

20 25 30
 Phe Glu Ser Leu Leu Lys Phe Ala Glu Gly Thr Asn Phe Val Phe
 35 40 45
 Gly Gly Met Gly Glu Lys Gly Leu Ala Phe Ile Phe Leu Gly Val Leu
 50 55 60
 Cys Pro Ile Ile Phe Ile Ser Ala Leu Ile Gly Ile Leu Gln His Trp
 65 70 75 80
 Arg Ile Leu Pro Ile Phe Ile Arg Val Ile Gly Thr Leu Leu Ser Lys
 85 90 95
 Leu Asn Gly Met Gly Lys Leu Glu Ser Phe Asn Ala Val Ser Ser Leu
 100 105 110
 Ile Leu Gly Gln Ser Glu Asn Phe Ile Ala Tyr Lys Gly Val Leu Gly
 115 120 125
 Asp Leu Ser Ser Arg Arg Leu Phe Thr Met Ala Ala Thr Ala Met Ser
 130 135 140
 Thr Val Ser Leu Ser Ile Val Gly Ala Tyr Met Thr Met Leu Asp Ala
 145 150 155 160
 Lys Phe Val Val Ala Ala Leu Ile Leu Asn Met Phe Ser Thr Phe Ile
 165 170 175
 Ile Leu Ser Val Ile Asn Pro Thr Arg Pro Glu Ala Glu Pro Asp Ile
 180 185 190
 Lys Leu Glu Lys Leu His Glu Ser Gln Ser Phe Phe Glu Met Leu Gly
 195 200 205
 Glu Tyr Ile Leu Ala Gly Phe Lys Val Ala Met Ile Ile Leu Ala Met
 210 215 220
 Leu Ile Gly Phe Ile Ala Leu Ile Ser Ala Val Asn Ala Leu Phe Ser
 225 230 235 240
 Ser Ile Phe Gly Met Ser Phe Gln Gln Ile Leu Gly Tyr Val Phe Tyr
 245 250 255
 Pro Leu Ala Trp Leu Ile Gly Ile Pro Leu Ser Asp Ala Leu Asn Ala
 260 265 270
 Gly Ser Ile Met Ala Thr Lys Leu Val Ala Asn Glu Phe Val Ala Met
 275 280 285
 Ile Glu Leu Gln Lys Ile Ala His Gln Met Ser Pro Arg Gly Leu Gly
 290 295 300
 Ile Leu Ser Val Phe Leu Val Ser Phe Ala Asn Phe Ala Ser Ile Gly
 305 310 315 320
 Ile Val Ala Gly Ala Ile Lys Gly Leu Asn Glu Gln Gln Gly Asn Val
 325 330 335
 Val Ser Arg Phe Gly Leu Arg Leu Val Tyr Gly Ala Thr Leu Val Ser
 340 345 350
 Leu Leu Ser Ala Ser Phe Ala Gly Leu Val Leu
 355 360

<210> 7479

<211> 108

<212> PRT

<213> Enterobacter cloacae

<400> 7479

Pro Gly Gln Pro Gln Pro Ser Pro Pro Asp Asp Pro Ser Gly Glu Gly
 1 5 10 15
 Arg Leu Leu Gly Gln Arg Asn Gln Thr Arg Pro Asp Gly Arg Ser Gly
 20 25 30
 Arg Leu Ser Gly Leu Tyr Pro Gln Gly Leu His Arg Arg Leu Leu Pro
 35 40 45
 Arg Leu Arg Glu Lys Thr Ala Arg Arg Ala Glu Pro Asp Leu Ser Ala
 50 55 60
 Val Arg His Pro Gln Arg Pro His Pro Gly Gly Asp Leu Gln Pro Gly
 65 70 75 80
 Gly Ser Glu Leu Leu Ser Gly Pro Val Arg Val Pro Val Ser Ala Arg

85 90 95
 His Gly Arg Thr Ala Val Arg Ala Gly Asp Arg
 100 105

<210> 7480
 <211> 147
 <212> PRT
 <213> Enterobacter cloacae

<400> 7480
 Phe Leu Arg Arg Ala Gly Ser Pro Ala Arg Pro Tyr Arg Leu Arg Arg
 1 5 10 15
 Thr Ala Met Pro Lys Ser Val Ile Ile Pro Pro Gly Thr Ser Thr Pro
 20 25 30
 Ile Ala Pro Phe Val Pro Gly Thr Leu Ala Asp Gly Val Val Tyr Val
 35 40 45
 Ser Gly Thr Leu Pro Phe Asp Lys Asp Asn Asn Val Val Phe Ile Asn
 50 55 60
 Asp Pro Lys Gly Gln Thr Arg His Val Leu Glu Thr Ile Lys Thr Val
 65 70 75 80
 Ile Glu Thr Ala Gly Gly Thr Met Glu Asp Val Thr Phe Asn Ser Ile
 85 90 95
 Phe Ile Thr Asp Trp Lys Asn Tyr Ala Ala Ile Asn Glu Ile Tyr Ala
 100 105 110
 Glu Phe Phe Pro Gly Asp Lys Pro Ala Arg Phe Cys Ile Gln Cys Gly
 115 120 125
 Leu Val Lys Pro Glu Ala Leu Val Glu Ile Ala Thr Val Ala His Ile
 130 135 140
 Ala Lys
 145

<210> 7481
 <211> 372
 <212> PRT
 <213> Enterobacter cloacae

<400> 7481
 Leu Pro Leu Arg Asp Thr Val Tyr Ser Ala Glu Pro Arg Thr Trp Gly
 1 5 10 15
 Ser Pro Phe Arg His Ala Leu Ser Cys Ser Pro Leu Arg Asp Phe Ile
 20 25 30
 Ile Gln Arg Glu Phe Thr Met Ser Tyr Ala Ile His Asn Gln Asn Leu
 35 40 45
 Ala Phe Asn Asp Ser Ala Ile Ala Gln Tyr Met Asn Thr Asp Phe Ile
 50 55 60
 Val Ile Asp Ile Ser Leu Cys Val Ala Leu Ala Arg Glu Gln Phe Phe
 65 70 75 80
 Glu Lys Leu Lys Asp Asp Asp Ile Pro Ser His Ile Phe Ile Glu Asp
 85 90 95
 Asn Gly Arg Ile Ala Gly Leu Ile Ala Val Arg Lys Leu Leu Gln Ala
 100 105 110
 Thr Asp Thr Val Gln Pro Val Lys Gly Leu Met Ile Ser Asp Phe Ile
 115 120 125
 Gln Leu Lys Pro Glu Asp Glu Arg Ala Asp Val Ala Gly Leu Leu Ala
 130 135 140
 His Ala Gly Ala Asp Val Val Pro Val Val Thr His Gly Lys Leu Val
 145 150 155 160
 Gly Cys Leu Thr Glu Arg Glu Ile Ala His Leu Leu Glu Asp Asp Val
 165 170 175
 Thr Glu Asp Ala Gln Leu Gln Gly Ala Thr Leu Pro Leu Glu Lys Pro
 180 185 190

Tyr Leu Glu Thr Ser Ala Phe Ser Leu Trp Lys Lys Arg Ser Val Trp
 195 200 205
 Leu Leu Leu Leu Phe Val Ala Glu Ala Tyr Thr Ser Ser Val Ile Gln
 210 215 220
 His Phe Glu Glu Ala Leu Glu Ser Ala Ile Ala Leu Ala Phe Phe Ile
 225 230 235 240
 Pro Leu Leu Ile Gly Thr Gly Gly Asn Ser Gly Thr Gln Ile Thr Ser
 245 250 255
 Thr Leu Val Arg Ala Met Ala Leu Gly Glu Val His Leu Arg Asp Val
 260 265 270
 Gly Arg Val Leu Arg Lys Glu Met Ser Thr Ser Leu Met Ile Ala Ala
 275 280 285
 Thr Leu Gly Leu Ala Gly Cys Val Arg Ala Trp Met Met Gly Ile Gly
 290 295 300
 Met Glu Ile Thr Leu Ile Val Ser Leu Thr Leu Val Cys Ile Thr Leu
 305 310 315 320
 Trp Ser Ala Ile Val Ser Ser Val Ile Pro Met Val Leu Lys Arg Cys
 325 330 335
 Lys Ile Asp Pro Ala Val Val Ser Ala Pro Phe Ile Ala Thr Leu Ile
 340 345 350
 Asp Gly Thr Gly Leu Ile Ile Tyr Phe Lys Ile Ala Gln Tyr Thr Leu
 355 360 365
 Gly Leu Glu
 370

<210> 7482

<211> 179

<212> PRT

<213> Enterobacter cloacae

<400> 7482

Leu Cys Leu Thr Thr Ile Met Asn Phe Leu Phe Ile Ser Asp Asn Tyr
 1 5 10 15
 Tyr Leu Cys His Gly Val Ser Ser Ser Leu Thr Ser Thr His Leu Ile
 20 25 30
 Arg Asp Asp Ala Asp Ile His Asp Leu Asp Gly Val Asp Gln Ala Met
 35 40 45
 Asp Phe Ile Ile Ala Ile Glu Gln Asp Lys Leu Arg Asn Lys Thr Ile
 50 55 60
 Arg Gln Val Lys Lys Val Lys Cys Asp Tyr Ile Val Leu Met His Glu
 65 70 75 80
 Ile Glu Ala Asn Ser Ala Val Arg Ile Asp Asn Ile Ile Tyr Ser Ser
 85 90 95
 Met His Phe Thr Ala His Pro Phe Gln Gln Leu Met Arg Phe Tyr Arg
 100 105 110
 Ala Leu Arg Thr His Ser Phe Thr Arg Arg Glu Tyr Asp Val Leu Lys
 115 120 125
 Leu Phe His Leu Glu Asn His Glu Ile Ala Lys Lys Leu Gln Leu Ser
 130 135 140
 Gln Lys Thr Thr Ser Thr Tyr Arg Val Arg Ile Leu Glu Lys Leu Asn
 145 150 155 160
 Met Arg Ser Lys Asn Ile Leu Ala Met Thr Arg Val Lys Ser Ala Ile
 165 170 175
 Val Asp

<210> 7483

<211> 1364

<212> PRT

<213> Enterobacter cloacae

<400> 7483

Ser Leu Thr Ile His Ser Phe Ser Ser Leu Gln Thr Arg Ser His Leu
 1 5 10 15
 Thr Arg Leu His Lys Val Ala Thr Trp Trp Ile Phe His Ala Ile Asn
 20 25 30
 Arg Thr Leu Leu Gln Asn Asn Arg Ser Phe Gly Met Gly Met Thr Thr
 35 40 45
 Met Gly Val Lys Leu Asp Asp Ala Thr Arg Glu Arg Ile Lys Thr Ala
 50 55 60
 Ala Thr Arg Ile Asp Arg Thr Pro His Trp Leu Ile Lys Gln Ala Ile
 65 70 75 80
 Phe Asn Tyr Leu Glu Arg Leu Glu Ser Glu Glu Gly Leu Pro Glu Leu
 85 90 95
 Pro Ala Leu Leu Ala Gly Ala Ala Asn Glu Ser Glu Glu Ala Ala Thr
 100 105 110
 Ala Val Glu Glu Asn His Gln Pro Phe Leu Glu Phe Ala Glu Gln Ile
 115 120 125
 Leu Pro Gln Ser Val Ser Arg Ala Ala Ile Thr Gly Ala Tyr Arg Arg
 130 135 140
 Ala Glu Thr Asp Ala Val Pro Met Leu Leu Glu Gln Ala Arg Leu Pro
 145 150 155 160
 Glu Ala Val Ala Ala Gln Ala His Ser Leu Ala Tyr Gln Leu Ala Asp
 165 170 175
 Lys Leu Arg Asn Gln Lys Thr Ala Ser Gly Arg Ala Gly Met Val Gln
 180 185 190
 Gly Leu Leu Gln Glu Phe Ser Leu Ser Ser Gln Glu Gly Val Ala Leu
 195 200 205
 Met Cys Leu Ala Glu Ala Leu Leu Arg Ile Pro Asp Lys Ala Thr Arg
 210 215 220
 Asp Ala Leu Ile Arg Asp Lys Ile Ser Asn Gly Asn Trp His Ser His
 225 230 235 240
 Ile Gly Arg Ser Pro Ser Leu Phe Val Asn Ala Ala Thr Trp Gly Leu
 245 250 255
 Leu Phe Thr Gly Lys Leu Val Ser Thr His Asn Glu Ala Asn Leu Ser
 260 265 270
 Arg Ser Leu Asn Arg Ile Ile Gly Lys Ser Gly Glu Pro Leu Ile Arg
 275 280 285
 Lys Gly Val Asp Met Ala Met Arg Leu Met Gly Glu Gln Phe Val Thr
 290 295 300
 Gly Glu Thr Ile Ala Glu Ala Leu Ala Asn Ala Arg Lys Leu Glu Asp
 305 310 315 320
 Lys Gly Phe Arg Tyr Ser Tyr Asp Met Leu Gly Glu Ala Ala Leu Thr
 325 330 335
 Ala Ala Asp Ala Gln Ala Tyr Met Val Ser Tyr Gln Gln Ala Ile His
 340 345 350
 Ala Ile Gly Lys Ala Ser Asn Gly Arg Gly Ile Tyr Glu Gly Pro Gly
 355 360 365
 Ile Ser Ile Lys Leu Ser Ala Leu His Pro Arg Tyr Ser Arg Ala Gln
 370 375 380
 Tyr Asp Arg Val Met Glu Glu Leu Tyr Pro Arg Leu Lys Ser Leu Thr
 385 390 395 400
 Leu Leu Ala Arg Gln Tyr Asp Ile Gly Ile Asn Ile Asp Ala Glu Asp
 405 410 415
 Ala Asp Arg Leu Glu Ile Ser Leu Asp Leu Leu Glu Lys Leu Cys Phe
 420 425 430
 Glu Pro Glu Leu Ala Gly Trp Asn Gly Ile Gly Phe Val Ile Gln Ala
 435 440 445
 Tyr Gln Lys Arg Cys Pro Phe Val Ile Asp Tyr Leu Ile Asp Leu Ala
 450 455 460
 Ser Arg Ser Arg Arg Arg Leu Met Ile Arg Leu Val Lys Gly Ala Tyr
 465 470 475 480

Trp Asp Ser Glu Ile Lys Arg Ala Gln Met Glu Gly Leu Glu Gly Tyr
 485 490 495
 Pro Val Tyr Thr Arg Lys Val Tyr Thr Asp Val Ser Tyr Leu Ala Cys
 500 505 510
 Ala Lys Lys Leu Leu Gly Val Pro Asn Leu Ile Tyr Pro Gln Phe Ala
 515 520 525
 Thr His Asn Ala His Thr Leu Ala Ala Ile Tyr Ser Leu Ala Gly Gln
 530 535 540
 Asn Tyr Tyr Pro Gly Gln Tyr Glu Phe Gln Cys Leu His Gly Met Gly
 545 550 555 560
 Glu Pro Leu Tyr Glu Gln Val Thr Gly Lys Val Ala Asp Gly Lys Leu
 565 570 575
 Asn Arg Pro Cys Arg Ile Tyr Ala Pro Val Gly Thr His Glu Thr Leu
 580 585 590
 Leu Ala Tyr Leu Val Arg Arg Leu Leu Glu Asn Gly Ala Asn Thr Ser
 595 600 605
 Phe Val Asn Arg Ile Ala Asp Thr Thr Leu Pro Leu Asp Glu Leu Val
 610 615 620
 Ala Asp Pro Val Gln Ala Val Glu Lys Met Ala Ala Gln Glu Gly Gln
 625 630 635 640
 Ile Gly Leu Pro His Pro Lys Ile Ala Leu Pro Arg Glu Leu Tyr Gly
 645 650 655
 Ala Gly Arg Val Asn Ser Ala Gly Leu Asp Leu Ala Asn Glu His Arg
 660 665 670
 Leu Ala Ser Leu Ser Ser Ala Leu Leu Asn Ser Ala Leu Gln Lys Trp
 675 680 685
 Gln Ala Arg Pro Ile Leu Glu Gln Ser Val Glu Asp Gly Glu Met Gln
 690 695 700
 Pro Val Ile Asn Pro Ala Glu Pro Lys Asp Ile Val Gly Tyr Val Arg
 705 710 715 720
 Glu Ala Thr Glu Thr Glu Val Glu Gln Ala Leu Glu Ser Ala Val Asn
 725 730 735
 Asn Ala Pro Ile Trp Phe Ala Thr Pro Pro Gln Glu Arg Ala Ala Ile
 740 745 750
 Leu Glu Arg Ala Ala Val Leu Met Glu Asp Gln Met Gln Gln Leu Ile
 755 760 765
 Gly Ile Leu Val Arg Glu Ala Gly Lys Thr Leu Ser Asn Ala Ile Ala
 770 775 780
 Glu Val Arg Glu Ala Val Asp Phe Leu His Tyr Tyr Ala Gly Gln Val
 785 790 795 800
 Arg Asp Asp Phe Asp Asn Glu Thr His Arg Pro Leu Gly Pro Val Val
 805 810 815
 Cys Ile Ser Pro Trp Asn Phe Pro Leu Ala Ile Phe Thr Gly Gln Ile
 820 825 830
 Ala Ala Ala Leu Ala Ala Gly Asn Ser Val Leu Ala Lys Pro Ala Glu
 835 840 845
 Gln Thr Pro Leu Ile Ala Ala Gln Gly Ile Asn Ile Leu Leu Glu Ala
 850 855 860
 Gly Val Pro Ala Gly Val Val Gln Leu Leu Pro Gly Arg Gly Glu Thr
 865 870 875 880
 Val Gly Ala Lys Leu Thr Ser Asp Asn Arg Val Arg Gly Val Met Phe
 885 890 895
 Thr Gly Ser Thr Glu Val Ala Ser Leu Leu Gln Arg Asn Ile Ala Thr
 900 905 910
 Arg Leu Asp Ala Gln Gly Arg Pro Thr Pro Leu Ile Ala Glu Thr Gly
 915 920 925
 Gly Met Asn Ala Met Ile Val Asp Ser Ser Ala Leu Thr Glu Gln Val
 930 935 940
 Val Val Asp Val Leu Ala Ser Ala Phe Asp Ser Ala Gly Gln Arg Cys
 945 950 955 960
 Ser Ala Leu Arg Val Leu Cys Leu Gln Asp Asp Val Ala Asp His Thr

965 970 975
 Leu Lys Met Leu Arg Gly Ala Met Ala Glu Cys Arg Met Gly Asn Pro
 980 985 990
 Gly Arg Leu Thr Thr Asp Ile Gly Pro Val Ile Asp Ala Glu Ala Lys
 995 1000 1005
 Ala Asn Ile Glu Asn His Ile Gln Thr Met Arg Ala Lys Gly Arg Pro
 1010 1015 1020
 Val Phe Gln Ala Val Arg Glu Asn Ser Glu Asp Ala Arg Glu Trp Gln
 1025 1030 1035 1040
 Thr Gly Thr Phe Val Pro Pro Thr Leu Ile Glu Leu Ala Ser Phe Asp
 1045 1050 1055
 Glu Leu Lys Lys Glu Val Phe Gly Pro Val Leu His Val Val Arg Tyr
 1060 1065 1070
 Asn Arg Asn Asn Leu Asn Glu Leu Ile Asp Gln Ile Asn Ala Ser Gly
 1075 1080 1085
 Tyr Gly Leu Thr Leu Gly Val His Thr Arg Ile Asp Glu Thr Ile Ala
 1090 1095 1100
 Gln Val Thr Gly Asn Ala Lys Val Gly Asn Leu Tyr Val Asn Arg Asn
 1105 1110 1115 1120
 Met Val Gly Ala Val Val Gly Val Gln Pro Phe Gly Gly Glu Gly Leu
 1125 1130 1135
 Ser Gly Thr Gly Pro Lys Ala Gly Gly Pro Leu Tyr Leu Tyr Arg Leu
 1140 1145 1150
 Leu Ala Asn Arg Pro Glu Asn Ala Leu Gly Val Thr Leu Ala Arg Gln
 1155 1160 1165
 Asp Ala Glu Tyr Pro Val Asp Ala Gln Val Lys Ala Val Leu Thr Gln
 1170 1175 1180
 Pro Leu Asp Ala Leu Ile Lys Trp Ala Glu Asn Arg Pro Glu Leu Arg
 1185 1190 1195 1200
 Ala Ile Ala Gln Gln Tyr Gly Glu Leu Ala Gln Ala Gly Thr Gln Arg
 1205 1210 1215
 Leu Leu Pro Gly Pro Thr Gly Glu Arg Asn Thr Trp Thr Leu Met Pro
 1220 1225 1230
 Arg Glu Arg Val Leu Cys Val Ala Asp Asn Glu Gln Asp Ala Leu Val
 1235 1240 1245
 Gln Leu Ala Ala Ala Thr Ala Thr Gly Cys Glu Val Leu Trp Pro Glu
 1250 1255 1260
 Asp Ala Leu His Arg Asp Leu Ala Lys Gln Leu Pro Lys Ala Val Ser
 1265 1270 1275 1280
 Ala Arg Ile Arg Phe Ala Lys Ala Asp Ala Leu Leu Thr Gln Pro Phe
 1285 1290 1295
 Asp Ala Val Ile Tyr His Gly Asp Ser Asp Gln Leu Arg Glu Leu Cys
 1300 1305 1310
 Glu Gln Val Ala Ala Arg Ser Gly Ala Ile Val Ser Val Gln Gly Phe
 1315 1320 1325
 Ala Arg Gly Glu Thr Asn Leu Leu Glu Arg Leu Tyr Val Glu Arg
 1330 1335 1340
 Ser Leu Ser Val Asn Thr Ala Ala Ala Gly Gly Asn Ala Ser Leu Met
 1345 1350 1355 1360
 Thr Ile Gly

<210> 7484

<211> 149

<212> PRT

<213> Enterobacter cloacae

<400> 7484

Arg Cys Ala Asn Lys Ala Pro Glu Thr Glu Pro Tyr Phe Ile Gly Glu
 1 5 10 15
 Cys Met Lys Arg Tyr Leu Ile Ala Gly Ala Ala Leu Leu Leu Ser Ala

20 25 30
 Ser Ala Leu Ala Asp Glu Cys Asp Lys Ala Thr Thr Gln Thr Glu Leu
 35 40 45
 Ser Ala Cys Ala Ala Glu Gln Tyr Gln Ala Ala Asp Lys Lys Leu Asn
 50 55 60
 Gln Thr Tyr Gln Ala Ala Ile Lys Arg Ala Ala Ala Pro Gln Arg Asp
 65 70 75 80
 Leu Leu Lys Lys Ala Gln Gln Ala Trp Ile Ala Leu Arg Asp Ala Asp
 85 90 95
 Cys Lys Leu Met Gly Ser Gly Thr Glu Gly Gly Thr Ile Gln Pro Met
 100 105 110
 Ile Ile Asn Gln Cys Leu Thr Glu Lys Thr Ala Glu Arg Glu Ala Phe
 115 120 125
 Leu Ala Ser Leu Met Gln Cys Glu Glu Gly Asn Leu Ser Cys Pro Phe
 130 135 140
 Gln Pro Ala Asp
 145

<210> 7485
 <211> 261
 <212> PRT
 <213> Enterobacter cloacae

<400> 7485
 Phe Ser His Arg Arg Gly Asn Leu Arg Arg Ala His Ser Ala Ala Asp
 1 5 10 15
 Ala Val Pro Arg Pro His Pro Cys Arg Asp Glu Gly Gly Gly Val Met
 20 25 30
 Thr Thr Leu Asn Ala Arg Pro Glu Ala Ile Thr Phe Asp Ala Gln Arg
 35 40 45
 Ser Ala Leu Ile Val Val Asp Met Gln Asn Ala Tyr Ala Ser Lys Gly
 50 55 60
 Gly Tyr Leu Asp Leu Ala Gly Phe Asp Val Ser Thr Thr Gln Pro Val
 65 70 75 80
 Ile Glu Asn Ile Lys Thr Ala Val His Ala Arg Ala Ala Gly Met
 85 90 95
 Leu Ile Val Trp Phe Gln Asn Gly Trp Asp Asp Gln Tyr Val Glu Ala
 100 105 110
 Gly Gly Pro Gly Ser Pro Asn Phe His Lys Ser Asn Ala Leu Lys Thr
 115 120 125
 Met Arg Gln Arg Pro Glu Leu Gln Gly Thr Leu Leu Ala Lys Gly Gly
 130 135 140
 Trp Asp Tyr Gln Leu Val Asp Glu Leu Val Pro Glu Ala Ser Asp Ile
 145 150 155 160
 Val Leu Pro Lys Pro Arg Tyr Ser Gly Phe Asn Thr Pro Leu Asp
 165 170 175
 Ser Leu Leu Arg Ser Arg Gly Ile Arg His Leu Val Phe Thr Gly Ile
 180 185 190
 Ala Thr Asn Val Cys Val Glu Ser Thr Leu Arg Asp Gly Phe Phe Leu
 195 200 205
 Glu Tyr Phe Gly Val Val Leu Glu Asp Ala Thr His Gln Ala Gly Pro
 210 215 220
 Asp Phe Ala Gln Lys Ala Ala Leu Phe Asn Ile Glu Thr Phe Phe Gly
 225 230 235 240
 Trp Val Ser Asn Val Asn Asp Phe Cys Asp Ala Leu Asp Pro Pro Leu
 245 250 255
 Ala Arg Ile Ala
 260

<210> 7486
 <211> 286

<212> PRT

<213> *Enterobacter cloacae*

<400> 7486

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Ser Pro Lys Arg Trp Leu Lys Leu Pro Pro Leu Arg Thr Ser Arg Ser
1      5      10      15
Glu Ala Ala Met Lys Leu Ser Ile Ser Pro Pro Pro Phe Ala Gly Ala
20      25      30
Pro Val Val Val Leu Ile Ala Gly Leu Gly Gly Ser Gly Ser Tyr Trp
35      40      45
Leu Pro Gln Leu Ala Val Leu Gly Gln Glu Tyr Gln Val Val Cys Tyr
50      55      60
Asp Gln Arg Gly Thr Gly Asp Asn Pro Asp Thr Leu Pro Glu Asp Tyr
65      70      75      80
Thr Leu Ala His Met Ala Asp Glu Leu Ala Leu Ala Leu Ala Gly Ala
85      90      95
Gly Ile Ala Arg Tyr Cys Val Val Gly His Ala Leu Gly Ala Leu Val
100     105     110
Gly Leu Arg Leu Ala Ile Asp Lys Pro Asp Ala Leu Thr Ala Leu Val
115     120     125
Cys Val Asn Gly Trp Leu Thr Leu Asn Ala His Thr Arg Arg Cys Phe
130     135     140
Asp Val Arg Glu Arg Leu Leu His Ala Gly Gly Ala Gln Ala Trp Val
145     150     155     160
Glu Ala Gln Pro Leu Phe Leu Tyr Pro Ala Asp Trp Met Ala Ala Arg
165     170     175
Ala Pro Arg Leu Glu Ala Glu Asp Ala Leu Ala Leu Ala His Phe Gln
180     185     190
Gly Lys Ala Asn Leu Leu Arg Arg Leu His Ala Leu Lys Gln Ala Asp
195     200     205
Phe Ser Arg His Ala Ala Arg Val Arg Cys Pro Val Gln Ile Ile Cys
210     215     220
Ser Thr Asp Asp Leu Leu Val Pro Ser Val Cys Ser Asp Glu Leu His
225     230     235     240
Ala Ala Leu Pro His Ala Arg Lys Thr Val Met Arg Gln Gly Gly His
245     250     255
Ala Cys Asn Val Thr Ala Pro Asp Ile Phe Asn Thr Leu Leu Leu Asn
260     265     270
Gly Leu Ala Ser Leu Leu His Ser Pro Glu Pro Ala Leu
275     280     285

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<210> 7487

<211> 197

<212> PRT

<213> *Enterobacter cloacae*

<400> 7487

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Met Ser Glu Ala Ile Thr Pro Ala Ala Leu Glu Thr Leu Phe Thr Gly
1      5      10      15
Ala Arg Thr His Asn Gly Trp Leu Asp Ile Pro Val Ser Asp Glu Thr
20      25      30
Leu Arg Glu Ile Tyr Asp Leu Met Lys Trp Gly Pro Thr Ser Ala Asn
35      40      45
Cys Ser Pro Ala Arg Ile Val Phe Val Arg Ser Pro Glu Gly Lys Glu
50      55      60
Lys Leu Arg Pro Ala Leu Ser Ser Gly Asn Leu Glu Lys Thr Leu Thr
65      70      75      80
Ala Pro Val Thr Ala Ile Val Ala Trp Asp Ser Glu Phe Tyr Glu Arg
85      90      95
Leu Pro Glu Leu Phe Pro His Gly Asp Ala Arg Ser Trp Phe Thr Ala
100     105     110

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Ser Pro Ala Leu Ala Glu Glu Thr Ala Phe Arg Asn Ser Ser Met Gln
 115 120 125
 Ala Ala Phe Leu Ile Phe Ala Cys Arg Ala Leu Gly Leu Asp Thr Gly
 130 135 140
 Pro Met Ser Gly Phe Asp Arg Glu Lys Val Asp Ala Ala Phe Phe Thr
 145 150 155 160
 Gly Thr Leu Leu Lys Ser Asn Leu Leu Ile Asn Ile Gly Tyr Gly Asp
 165 170 175
 Thr Thr Glu Leu Tyr Gly Arg Leu Pro Arg Leu Thr Phe Glu Asp Ala
 180 185 190
 Cys Gly Leu Ala
 195

<210> 7488

<211> 201

<212> PRT

<213> Enterobacter cloacae

<400> 7488

Cys Lys Met Ala Lys Val Leu Val Leu Tyr Tyr Ser Met Tyr Gly His
 1 5 10 15
 Ile Glu Thr Met Ala His Ala Val Ala Glu Gly Ala Asn Arg Val Asp
 20 25 30
 Gly Val Glu Val Val Val Lys Arg Val Pro Glu Thr Met Gln Ala Glu
 35 40 45
 Ala Phe Ala Lys Ala Gly Gly Lys Thr Gln Asn Ala Pro Val Ala Thr
 50 55 60
 Pro Gln Glu Leu Ala Asp Tyr Asp Ala Ile Ile Phe Gly Thr Pro Thr
 65 70 75 80
 Arg Phe Gly Asn Met Ser Gly Gln Met Arg Thr Phe Leu Asp Gln Thr
 85 90 95
 Gly Gly Leu Trp Ala Ser Gly Ala Leu Tyr Gly Lys Leu Ala Ser Val
 100 105 110
 Phe Ser Ser Thr Gly Thr Gly Gly Gly Gln Glu Gln Thr Ile Thr Ser
 115 120 125
 Thr Trp Thr Thr Leu Ala His Gly Met Val Ile Val Pro Ile Gly
 130 135 140
 Tyr Gly Ala Gln Glu Leu Phe Asp Val Ser Gln Val Arg Gly Gly Thr
 145 150 155 160
 Pro Tyr Gly Ala Thr Thr Ile Ala Gly Gly Asp Gly Ser Arg Gln Pro
 165 170 175
 Ser Asn Glu Glu Leu Ser Ile Ala Arg Tyr Gln Gly Glu Tyr Val Ala
 180 185 190
 Gly Leu Ala Lys Lys Leu Asn Gly
 195 200

<210> 7489

<211> 82

<212> PRT

<213> Enterobacter cloacae

<400> 7489

Pro Asn Arg Arg Thr Ser Met Pro Thr Gln Glu Ser Lys Ala His His
 1 5 10 15
 Val Gly Glu Trp Ala Ser Leu Arg Asn Thr Ser Pro Glu Ile Ala Glu
 20 25 30
 Ala Ile Phe Glu Val Ala Asn Tyr Asp Glu Lys Leu Ala Glu Gln Ile
 35 40 45
 Trp Glu Glu Gly Asn Asp Glu Val Leu Val Arg Ala Phe Lys Lys Thr
 50 55 60
 Asp Lys Asp Ser Leu Phe Trp Gly Glu Gln Thr Ile Glu Arg Lys Asn

80

<400> 7490

<210> 7491

$\langle 211 \rangle$ 393

<212> PRT

<213> Enterobacter cloacae

<400> 7491

His 1	Pro	Asn	Asn	Lys 5	Val	Ile	Phe	Lys	Thr 10	Gly	Thr	Ala	Phe	Ala 15	Lys
Thr	Pro	Leu	His 20	Leu	Arg	Arg	Asn	Glu 25	Glu	Arg	Phe	Val	Met 30	Lys	Ile
Gly	Val	Phe 35	Val	Pro	Ile	Gly	Asn 40	Asn	Gly	Trp	Leu	Ile 45	Ser	Thr	Thr
Ala	Pro	Gln	Tyr	Met	Pro	Thr 55	Phe	Glu	Leu	Asn 60	Lys	Ala	Ile	Val	Gln
Lys 65	Ala	Glu	His	Tyr	His 70	Phe	Asp	Phe	Ala	Leu 75	Ser	Met	Ile	Lys	Leu
Arg	Gly	Phe	Gly	Gly 85	Lys	Thr	Glu	Phe	Trp 90	Asp	His	Asn	Leu	Glu 95	Ser
Phe	Thr	Leu	Met 100	Ala	Gly	Leu	Ala	Ala 105	Val	Thr	Ser	Arg	Ile	Gln	Ile
Tyr	Ala	Thr 115	Ala	Ala	Thr	Leu	Thr 120	Leu	Pro	Pro	Ala	Ile 125	Val	Ala	Arg
Met	Ala	Ser 130	Thr	Ile	Asp	Ser 135	Ile	Ser	Gly	Gly	Arg 140	Phe	Gly	Val	Asn
Leu 145	Val	Thr	Gly	Trp	Gln 150	Lys	Pro	Glu	Tyr	Glu 155	Gln	Met	Gly	Leu	Trp
Pro	Gly	Asp	Asp 165	Tyr	Phe	Ser	Arg	Arg	Tyr 170	Asp	Tyr	Leu	Thr 175	Glu	Tyr
Val	Gln	Val	Leu 180	Arg	Asp	Leu	Trp	Gly 185	Thr	Gly	Lys	Ser 190	Asp	Phe	Lys
Gly	Asp	Phe 195	Thr	Met	Asn	Asp 200	Cys	Arg	Val	Ser	Pro 205	Gln	Pro	Ser	
Val	Pro	Met	Lys	Val	Ile 215	Cys	Ala	Gly	Gln	Ser 220	Asp	Ala	Gly	Met	Glu
Phe 225	Ser	Ala	Lys	Tyr	Ala 230	Asp	Phe	Asn	Phe	Cys 235	Phe	Gly	Lys	Gly	Val
Asn	Thr	Pro	Ala 245	Ala	Phe	Ala	Pro	Thr	Ala 250	Ala	Arg	Met	Lys	Glu	Ala
Ala	Asp	Lys	Thr 260	Gly	Arg	Asp	Val	Gly 265	Ser	Tyr	Val	Leu	Phe 270	Met	Val
Ile	Ala	Asp 275	Glu	Thr	Asp	Glu	Ala 280	Ala	Arg	Ala	Lys 285	Trp	Gln	Arg	Tyr

Lys Asp Gly Ala Asp Glu Glu Ala Leu Ser Trp Leu Thr Glu Gln Ser
 290 295 300
 Gln Lys Asp Thr Arg Ser Gly Ala Asp Thr Asn Val Arg Gln Met Ala
 305 310 315 320
 Asp Pro Thr Ser Ala Val Asn Ile Asn Met Gly Thr Leu Val Gly Ser
 325 330 335
 Tyr Ala Ser Val Ala Arg Met Leu Asp Glu Val Ala Ala Val Pro Gly
 340 345 350
 Ala Glu Gly Val Leu Leu Thr Phe Asp Asp Phe Leu Thr Gly Val Glu
 355 360 365
 Thr Phe Gly Glu Arg Ile Gln Pro Leu Met Gln Cys Arg Ala His Ile
 370 375 380
 Pro Ala Val Thr Lys Glu Val Ala
 385 390

<210> 7492

<211> 168

<212> PRT

<213> Enterobacter cloacae

<400> 7492

Gly Ala Ile Met Thr Thr Leu Asp Gln Gln Thr Phe Arg Asp Ala Met
 1 5 10 15
 Ala Cys Val Gly Ala Ala Val Asn Ile Ile Thr Thr Asp Gly Pro Ala
 20 25 30
 Gly Met Ala Gly Phe Thr Ala Ser Ala Val Cys Ser Val Thr Asp Thr
 35 40 45
 Pro Pro Thr Leu Leu Val Cys Leu Asn Arg Gly Ala Ser Val Trp Pro
 50 55 60
 Ile Phe Ser Glu Asn Arg Thr Leu Cys Val Asn Thr Leu Ser Ala Gly
 65 70 75 80
 Gln Glu Pro Leu Ser Ser Leu Phe Gly Gly Lys Thr Pro Met Ala Asp
 85 90 95
 Arg Phe Ala Ala Ala Arg Trp Gln Thr Gly Glu Thr Gly Cys Pro Arg
 100 105 110
 Leu Glu Ala Ala Leu Ala Ser Phe Asp Cys Arg Ile Ser Gln Val Val
 115 120 125
 Ser Val Gly Thr His Asp Ile Leu Phe Cys Asp Ile Val Ser Ile Ile
 130 135 140
 Arg His Pro Ala Pro Gln Gly Leu Val Trp Phe Asp Arg Gly Tyr His
 145 150 155 160
 Ala Leu Met Arg Pro Ala Cys
 165

<210> 7493

<211> 448

<212> PRT

<213> Enterobacter cloacae

<400> 7493

Ser Ala Phe Arg Arg Gln Ile Met Phe Gly Leu Pro His Trp Gln Leu
 1 5 10 15
 Lys Ser Thr Ser Thr Glu Glu Gly Val Val Ala Pro Asp Glu Arg Leu
 20 25 30
 Pro Leu Gly Gln Thr Met Val Met Gly Val Gln His Ala Val Ala Met
 35 40 45
 Phe Gly Ala Thr Val Leu Met Pro Met Leu Met Gly Leu Asp Pro Asn
 50 55 60
 Leu Ala Ile Leu Met Ser Gly Met Gly Thr Leu Leu Phe Phe Phe Val
 65 70 75 80
 Thr Gly Gly Arg Val Pro Ser Tyr Leu Gly Ser Ser Ala Ala Phe Val

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<210> 7494
<211> 894
<212> PRT
<213> Enterobacter cloacae
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Leu	Phe	Leu	Gln	Trp	Asn	Gly	Trp	Thr	Ala	Ala	Tyr	Phe	Gly	Thr	His
1				5					10					15	
Met	Ser	Gln	Glu	Thr	Pro	Ala	Ser	Pro	Thr	Glu	Ala	Arg	Ile	Lys	Thr
			20					25					30		
Lys	Arg	Arg	Ile	Ser	Pro	Phe	Trp	Leu	Leu	Pro	Val	Ile	Ala	Leu	Met
			35				40					45			
Ile	Ala	Gly	Trp	Leu	Ile	Trp	Thr	Ser	Tyr	Glu	Asp	Arg	Gly	Ser	Thr
	50					55				60					
Ile	Thr	Ile	Asp	Phe	Gln	Ser	Ala	Asp	Gly	Ile	Val	Ala	Gly	Arg	Thr

65				70				75				80			
Pro	Val	Arg	Phe	Gln	Gly	Val	Glu	Val	Gly	Thr	Val	Gln	Asp	Ile	Ser
				85					90					95	
Leu	Gly	Lys	Gly	Leu	Asn	Lys	Ile	Gln	Val	Arg	Ala	Ser	Ile	Lys	Ser
			100					105					110		
Asp	Met	Gln	Asp	Ala	Leu	Arg	Ala	Glu	Thr	Gln	Phe	Trp	Leu	Val	Thr
		115					120					125			
Pro	Lys	Ala	Ser	Leu	Ala	Gly	Val	Ser	Gly	Leu	Asp	Ala	Leu	Val	Gly
	130					135					140				
Gly	Asn	Tyr	Ile	Gly	Met	Met	Pro	Gly	Lys	Gly	Glu	Pro	Gln	Asp	His
145					150					155					160
Phe	Val	Ala	Leu	Asp	Thr	Gln	Pro	Lys	Tyr	Arg	Leu	Asn	Asn	Gly	Asp
			165						170					175	
Leu	Met	Ile	His	Leu	Arg	Ala	Pro	Asp	Leu	Gly	Ser	Leu	Asn	Ser	Gly
			180					185					190		
Ser	Leu	Val	Tyr	Phe	Arg	Lys	Ile	Pro	Val	Gly	Arg	Val	Tyr	Asp	Tyr
		195					200					205			
Ala	Ile	Asn	Pro	Asn	Lys	Asp	Gly	Val	Thr	Ile	Asp	Val	Leu	Ile	Glu
210						215					220				
Arg	Arg	Phe	Thr	Asn	Leu	Val	Lys	Lys	Gly	Ser	Arg	Phe	Trp	Asn	Val
225					230					235					240
Ser	Gly	Val	Asp	Ala	Asp	Leu	Ser	Leu	Ser	Gly	Ala	Lys	Val	Lys	Leu
			245					250						255	
Glu	Ser	Leu	Ala	Ala	Leu	Val	Asn	Gly	Ala	Ile	Ala	Phe	Asp	Ser	Pro
			260					265					270		
Ala	Asp	Ser	Ser	Pro	Ala	Ala	Ala	Glu	Asp	Thr	Phe	Gly	Leu	Tyr	Ala
	275						280					285			
Asp	Leu	Ala	His	Ser	Gln	Arg	Gly	Val	Ile	Val	Lys	Leu	Thr	Leu	Pro
290						295					300				
Asp	Ala	Lys	Gly	Leu	Lys	Ala	Gly	Ser	Thr	Pro	Leu	Met	Tyr	Gln	Gly
305					310					315					320
Leu	Glu	Val	Gly	Gln	Leu	Thr	Lys	Leu	Thr	Leu	Asn	Ala	Gly	Gly	Ser
			325					330						335	
Val	Thr	Gly	Glu	Met	Thr	Val	Asp	Pro	Ser	Val	Val	Asp	Leu	Leu	Arg
		340					345					350			
Glu	Lys	Thr	Arg	Ile	Glu	Leu	Arg	Asn	Pro	Lys	Leu	Ser	Leu	Ser	Asp
	355						360					365			
Ala	Ser	Ile	Ser	Ser	Leu	Leu	Thr	Gly	Ser	Thr	Phe	Glu	Leu	Ile	Pro
	370					375					380				
Gly	Glu	Gly	Ala	Pro	Asn	Lys	Asn	Phe	Val	Ile	Ala	Pro	Ala	Asp	Lys
385					390					395					400
Ala	Leu	Leu	Gln	Lys	Pro	Gly	Val	Leu	Thr	Val	Thr	Leu	Asn	Ala	Pro
			405					410						415	
Glu	Ser	Tyr	Gly	Ile	Glu	Ala	Gly	Gln	Pro	Leu	Ile	Leu	His	Gly	Val
		420					425						430		
Gln	Val	Gly	Gln	Val	Leu	Glu	Arg	Lys	Leu	Lys	Glu	Lys	Gly	Val	Ser
	435						440					445			
Phe	Ser	Ala	Ala	Ile	Asp	Pro	Gln	Tyr	Ser	Asn	Leu	Val	His	Gly	Asp
	450				455					460					
Ser	Lys	Phe	Val	Val	Asn	Ser	Arg	Val	Asp	Val	Lys	Val	Gly	Leu	Asp
465					470				475						480
Gly	Val	Glu	Phe	Leu	Gly	Ala	Ser	Ala	Ser	Glu	Trp	Val	Asn	Gly	Gly
			485					490						495	
Ile	Arg	Ile	Leu	Pro	Gly	Ser	Lys	Gly	Ala	Leu	Arg	Glu	Ser	Tyr	Pro
		500					505						510		
Leu	Phe	Ala	Asn	Leu	Asp	Lys	Ala	Ile	Glu	Asn	Ser	Leu	Gly	Asp	Leu
	515						520					525			
Pro	Thr	Thr	Thr	Leu	Thr	Leu	Ser	Ala	Glu	Thr	Leu	Pro	Asp	Val	Gln
	530					535					540				
Ala	Gly	Ser	Val	Val	Leu	Tyr	Arg	Lys	Phe	Glu	Val	Gly	Glu	Val	Ile
545					550					555					560

Thr Val Arg Pro Arg Ala Asp Ala Phe Asp Ile Glu Leu His Ile Lys
 565 570 575
 Pro Glu Tyr Arg Lys Leu Leu Thr Pro Asn Ser Val Phe Trp Ala Glu
 580 585 590
 Gly Gly Ala Lys Val Gln Leu Asn Gly Ser Gly Leu Thr Val Gln Ala
 595 600 605
 Ser Pro Leu Ser Arg Ala Leu Arg Gly Ala Ile Ser Phe Asp Asn Leu
 610 615 620
 Ser Gly Ala Gly Gly Asn Met Arg Lys Gly Asp Lys Arg Ile Leu Phe
 625 630 635 640
 Pro Ser Glu Thr Ala Ala Arg Ala Val Gly Gly Gln Ile Thr Leu His
 645 650 655
 Thr Phe Asp Ala Gly Lys Leu Ala Glu Gly Met Pro Ile Arg Tyr Leu
 660 665 670
 Gly Ile Asp Ile Gly Gln Ile Gln Lys Leu Thr Leu Ile Thr Ala Arg
 675 680 685
 Asn Glu Val Gln Ala Thr Ala Val Leu Tyr Pro Glu Tyr Val Gln Thr
 690 695 700
 Phe Ala Arg Ala Gly Ser Arg Phe Ser Val Val Thr Pro Gln Ile Ser
 705 710 715 720
 Ala Ala Gly Val Glu His Leu Asp Thr Ile Leu Gln Pro Tyr Ile Asn
 725 730 735
 Val Glu Pro Gly Arg Gly Asn Ala Arg Arg Glu Phe Glu Leu Gln Glu
 740 745 750
 Ala Thr Ile Thr Asp Ser Arg Tyr Leu Asp Gly Leu Ser Ile Val Val
 755 760 765
 Glu Val Pro Glu Ala Gly Ser Leu Gly Ile Gly Thr Pro Val Leu Phe
 770 775 780
 Arg Gly Ile Glu Val Gly Thr Val Thr Ser Leu Thr Leu Gly Asn Leu
 785 790 795 800
 Ser Asp Arg Val Met Val Gly Leu Arg Ile Ser Gln Arg Tyr Gln His
 805 810 815
 Leu Val Arg Asn Asn Ser Val Phe Trp Leu Ala Ser Gly Tyr Ser Leu
 820 825 830
 Asp Phe Gly Leu Thr Gly Gly Val Lys Thr Gly Thr Phe Asn Gln
 835 840 845
 Phe Ile Arg Gly Gly Ile Ala Phe Ala Thr Pro Pro Gly Thr Pro Leu
 850 855 860
 Ala Pro Lys Ala Gln Ala Gly Lys His Phe Leu Leu Leu Glu Ser Glu
 865 870 875 880
 Pro Lys Glu Trp Arg Glu Trp Gly Thr Ala Leu Pro Arg
 885 890

<210> 7495

<211> 95

<212> PRT

<213> Enterobacter cloacae

<400> 7495

Leu His Trp Ser Tyr Gln Ile Leu Gly Asn Lys Pro Glu Ser Ile Met
 1 5 10 15
 Thr Lys Thr Ser Val Arg Ile Gly Ala Phe Glu Ile Asp Asp Ala Glu
 20 25 30
 Leu Arg Gly Glu Ser Gln Gly Glu Arg Thr Leu Ser Ile Pro Cys Lys
 35 40 45
 Ser Asp Pro Asp Leu Cys Met Gln Leu Asp Ala Trp Asp Ala Asp Thr
 50 55 60
 Ser Val Pro Ala Ile Leu Asp Gly Glu His Ser Val Leu Tyr Arg Glu
 65 70 75 80
 His Tyr Asp Ser Lys Thr Asp Ala Trp Val Leu Arg Leu Ala
 85 90 95

<210> 7496
 <211> 368
 <212> PRT
 <213> Enterobacter cloacae

<400> 7496

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Thr Gly Val Gly Phe Arg Glu Ser Lys Gln Thr Ile Asn Gln Pro Glu
1      5      10      15
Ile Lys Ile Ala Leu Leu Ile Pro Tyr Ser Leu Ala Phe Lys Ile
20      25      30
Glu Arg Asn Lys Lys Arg Asp Phe His Val Ser Asn Ile His Leu Gln
35      40      45
Asn Asp Val Phe Tyr Pro His Arg Thr Asn Ile Ile Ser Glu Leu Val
50      55      60
Arg Gly Lys Arg Val Pro Gly Pro Ile Trp His Lys Arg Asp Tyr Arg
65      70      75      80
Leu Lys Phe Leu Leu Arg Ser Leu Leu Phe Trp Ser Ser Thr His Arg
85      90      95
Met Leu Glu Ala Leu Ser Gly Arg Asp Phe Asp Arg Leu Leu Thr
100     105     110
Ser Gln Ile Thr Leu Pro Ser Lys Thr His Arg Gln Tyr Leu Met Arg
115     120     125
Gly Leu Asn Ser Asn Asp Arg Ala Asp Ala Ile Val Ser His Tyr Gln
130     135     140
Trp Ile Asp Ser Leu Lys Asn Ile Ala Leu Ala His Ala Leu Thr Ser
145     150     155     160
Pro Gln Glu Val Pro Val Val Arg Phe Glu Ala Lys Asn Gly Glu Ile
165     170     175
Tyr Thr Val His Ala Ser Ser Ala Gly Lys Ala Glu Arg Glu Gly Glu
180     185     190
Ser Thr Leu Trp Leu His Asp Asn Asp Asn Thr Leu Leu Ala Ser Leu
195     200     205
Thr Phe Cys Val Ala Arg Ser Asn Gly Arg Thr Val Leu Val Ile Gly
210     215     220
Gly Leu Gln Gly Pro Arg Arg His Val Ser Arg Glu Val Ile Lys Gln
225     230     235     240
Ala Thr Arg Ala Cys His Gly Leu Phe Pro Lys Arg Val Leu Met Glu
245     250     255
Val Ile Phe Gln Leu Ala Ser Arg Ser Asn Ile Ser Ala Ile Phe Ala
260     265     270
Val Ser Asp Glu Gly His Val Phe Arg Ala Leu Arg Tyr Arg Leu Ser
275     280     285
Lys Gly Arg His Phe His Ala Ser Tyr Asp Glu Phe Trp Glu Gly Leu
290     295     300
Asn Gly Lys Lys Leu Ser Pro Phe Cys Trp Gln Leu Pro Leu Gln Met
305     310     315     320
Glu Arg Lys Ala Leu Glu Glu Ile Ala Ser Lys Lys Arg Ala Glu Tyr
325     330     335
Arg Arg Arg Phe Ala Leu Leu Asp Asp Ile Ala Ala Ser Val Gln Ala
340     345     350
Arg Ile Asp Pro Ala Val Val Ser Gly Lys Ile Gln Thr Lys Ile
355     360     365

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<210> 7497
 <211> 91
 <212> PRT
 <213> Enterobacter cloacae

<400> 7497

Thr Ile Ala Val Thr Leu Pro Pro Gln Lys Lys Glu Lys Glu Met Asn

```

1           5           10           15
Val Asn Leu Ala Ala Leu Pro Gln Asp Glu Met Asp Lys Val Asn Val
20           25           30
Asp Leu Ala Ala Ala Gly Val Ala Phe Lys Glu Arg Tyr Asn Met Pro
35           40           45
Val Val Ala Glu Val Val Glu Arg Glu Gln Pro Ala His Leu Arg Asp
50           55           60
Trp Phe Arg Glu Arg Leu Ile Ala His Arg Leu Ala Ser Val Asn Leu
65           70           75           80
Ser Arg Leu Pro Tyr Glu Pro Lys Val Lys
85           90

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<210> 7498

<211> 228

<212> PRT

<213> Enterobacter cloacae

<400> 7498

```

Asn Pro Ser Asp Leu Val Tyr Lys Glu Val Thr Met Ser Arg Trp Asn
1           5           10           15
Ile Ala Ala Ala Gln Tyr Ala Pro Arg His Asn Cys Val Asp Glu His
20           25           30
Val Lys His His Leu His Phe Ile Ala Glu Ala Ala Trp His Gly Cys
35           40           45
Asp Leu Ile Val Phe Pro Glu Leu Ser Leu Thr Gly Pro Gly Gly Thr
50           55           60
Ser Leu Pro Pro Pro Pro Asp Asp Leu Gln Leu Ala Pro Leu Leu His
65           70           75           80
Ala Ala Gln Ser Arg Phe Ile Thr Val Ile Ala Gly Ile Thr Leu Gln
85           90           95
Gln His Gly Gln Arg Gln Lys Gly Leu Ala Leu Phe Thr Pro Asn Leu
100          105          110
Ser Thr Ile Arg Arg Tyr Pro Gln Gly Asn Gly Ala Gly Val Ile Pro
115          120          125
Gly Asp Lys Arg Leu Thr Ile Val Asp Asn Gln Ala Asp Ala Pro Glu
130          135          140
Leu Asp Pro Glu Ala Thr Leu Phe Thr Ser Ser Leu Ala Val Gly Glu
145          150          155          160
His Arg Trp Arg Gln Ser Ile Gly Ser Leu Gln Arg Phe Ala His Lys
165          170          175
Tyr Ala Ile Ala Val Leu Met Ala Asn Ala Arg Gly Gly Ser Ala Leu
180          185          190
Trp Asp Glu Lys Gly Gln Leu Ile Val Arg Ala Asp Lys Gly Glu Leu
195          200          205
Leu Leu Thr Gly Ser Leu Gly Gln Gln Gly Trp Gln Gly Asp Ile Ile
210          215          220
Pro Leu Gly
225

```

<210> 7499

<211> 226

<212> PRT

<213> Enterobacter cloacae

<400> 7499

```

Asp Gln Glu Arg Ser Met Leu Arg Val Ile Asp Thr Glu Thr Cys Asp
1           5           10           15
Leu Gln Gly Gly Ile Val Glu Val Ala Ser Val Asp Val Ile Asp Gly
20           25           30
Lys Ile Val Asn Pro Met Ser His Leu Val Arg Pro Asp Arg Pro Ile
35           40           45

```

Ser Ala Gln Ala Met Ala Ile His Arg Ile Thr Glu Ser Met Val Ala
 50 55 60
 Asp Lys Pro Trp Ile Glu Glu Ile Ile Pro Leu Tyr His Gly Ser Gln
 65 70 75 80
 Trp Tyr Val Ala His Asn Ala Ser Phe Asp Arg Arg Val Leu Pro Glu
 85 90 95
 Met Pro Gly Glu Trp Ile Cys Thr Met Lys Leu Ala Arg Arg Leu Trp
 100 105 110
 Pro Gly Ile Lys Tyr Ser Asn Met Ala Leu Tyr Lys Ser Arg Lys Leu
 115 120 125
 Ser Val Arg Thr Pro Glu Gly Leu His His His Arg Ala Leu Tyr Asp
 130 135 140
 Cys Tyr Ile Thr Ala Ala Leu Leu Ile Asp Ile Met Asn Thr Ser Gly
 145 150 155 160
 Trp Thr Pro Asp Asp Met Ala Thr Ile Thr Gly Arg Pro Ala Leu Leu
 165 170 175
 Thr Thr Phe Thr Phe Gly Lys Tyr Arg Gly Lys Pro Val Ser Glu Val
 180 185 190
 Ala Asp Lys Asp Pro Gly Tyr Leu Arg Trp Leu Tyr Asn Asn Leu Asp
 195 200 205
 Arg Met Ser Pro Glu Leu Arg Leu Thr Leu Lys His Tyr Leu Gly Glu
 210 215 220
 Ala
 225

<210> 7500

<211> 438

<212> PRT

<213> Enterobacter cloacae

<400> 7500

Leu Ser Thr Ile Leu Ile Cys Val Arg Leu Met Ala Leu Lys Thr Pro
 1 5 10 15
 Gln Ile Thr Pro Thr Arg Lys Ile Val Val Arg Thr Val Ser Gln Ala
 20 25 30
 Leu Pro Arg Ala His Tyr Gln Arg Cys Pro Gln Cys Asp Thr Leu Phe
 35 40 45
 Met Leu Pro Lys Met Lys Ser His Gln Ser Ala Phe Cys Pro Cys Cys
 50 55 60
 Asp Ala Lys Ile Arg Asp Gly Arg Asp Trp Ser Leu Thr Arg Leu Ala
 65 70 75 80
 Ala Met Ala Val Thr Met Leu Leu Leu Met Pro Phe Ala Trp Thr Glu
 85 90 95
 Pro Leu Leu Lys Leu Tyr Leu Leu Gly Val Arg Ile Asp Ala Asn Val
 100 105 110
 Leu Gln Gly Ile Trp Gln Met Thr Arg Gln Gly Asp Pro Leu Thr Ala
 115 120 125
 Ala Met Val Leu Phe Cys Val Val Gly Ala Pro Leu Val Leu Val Ala
 130 135 140
 Ala Ile Ala Tyr Leu Trp Phe Gly Asn Ile Leu Gly Met Asn Leu Arg
 145 150 155 160
 Pro Val Leu Leu Met Leu Glu Lys Leu Lys Glu Trp Val Met Leu Asp
 165 170 175
 Ile Tyr Leu Val Gly Val Gly Val Ala Ser Ile Lys Val Gln Asp Tyr
 180 185 190
 Ala Phe Leu Gln Pro Gly Ile Gly Leu Phe Ala Phe Ile Ser Leu Val
 195 200 205
 Leu Leu Ser Ile Leu Thr Leu Ile His Leu Asn Val Glu Gln Leu Trp
 210 215 220
 Glu Arg Phe Tyr Pro Gln Arg Pro Ala Thr Arg Pro Asp Asp Asn Leu
 225 230 235 240

Arg Val Cys Leu Gly Cys His Tyr Thr Gly Phe Pro Asp Lys Arg Gly
 245 250 255
 Arg Cys Pro Arg Cys His Ile Pro Leu Arg Leu Arg Arg Asn Asn Ser
 260 265 270
 Leu Gln Lys Cys Trp Ala Ala Leu Ile Ala Ser Leu Val Phe Leu Phe
 275 280 285
 Pro Ala Asn Met Leu Pro Ile Ser Val Ile Tyr Val Asn Gly Ala Arg
 290 295 300
 Gln Glu Asp Thr Ile Leu Ser Gly Ile Ile Ser Leu Ala His Ser Asn
 305 310 315 320
 Val Gly Val Ala Ala Ile Val Phe Ile Ala Ser Ile Leu Val Pro Phe
 325 330 335
 Thr Lys Val Val Val Met Phe Thr Leu Leu Ile Ser Ile His Phe Lys
 340 345 350
 Cys Glu Gln Gly Leu Arg Thr Arg Ile Leu Leu Leu Arg Phe Val Thr
 355 360 365
 Trp Ile Gly Arg Trp Ser Met Leu Asp Leu Phe Val Ile Ser Leu Met
 370 375 380
 Met Ser Leu Ile Asn Arg Asp Gln Leu Leu Ala Phe Thr Met Gly Pro
 385 390 395 400
 Ala Ala Phe Tyr Phe Gly Ser Ala Val Ile Leu Thr Ile Leu Ala Val
 405 410 415
 Glu Trp Leu Asp Ser Arg Leu Leu Trp Asp Ala His Glu Ser Gly Asn
 420 425 430
 Ala Arg Phe Ala Asp
 435

<210> 7501

<211> 488

<212> PRT

<213> Enterobacter cloacae

<400> 7501

Met Phe Pro Cys Gly Val Pro Val Ala Gln Asn Ser Val Phe Leu Pro
 1 5 10 15
 Glu Gln Phe Leu Ala Gln Met Arg Glu Ala Leu Pro Ala His Leu Ser
 20 25 30
 Phe Asp Asp Phe Val Ala Ala Cys Gln Arg Pro Leu Arg Arg Ser Ile
 35 40 45
 Arg Val Asn Thr Leu Lys Thr Ser Val Gly Ala Phe Leu Asp Leu Val
 50 55 60
 Ser Pro Tyr Gly Trp Gln Leu Thr Pro Val Pro Trp Cys Glu Glu Gly
 65 70 75 80
 Phe Trp Ile Glu Arg Asp Asp Glu Glu Ser Leu Pro Leu Gly Ser Thr
 85 90 95
 Ala Glu His Leu Ser Gly Leu Phe Tyr Ile Gln Glu Ala Ser Ser Met
 100 105 110
 Leu Pro Val Ala Ala Leu Phe Ala Asp Gly Asn Gln Pro Glu Arg Val
 115 120 125
 Met Asp Val Ala Ala Ala Pro Gly Ser Lys Thr Thr Gln Ile Ala Ala
 130 135 140
 Arg Met Asn Asn Arg Gly Ala Ile Leu Ala Asn Glu Phe Ser Ala Ser
 145 150 155 160
 Arg Val Lys Val Leu His Ala Asn Ile Ser Arg Cys Gly Ile His Asn
 165 170 175
 Val Ala Leu Thr His Phe Asp Gly Arg Val Phe Gly Ala Ala Leu Pro
 180 185 190
 Glu Ala Phe Asp Ala Ile Leu Leu Asp Ala Pro Cys Ser Gly Glu Gly
 195 200 205
 Val Val Arg Lys Asp Pro Asp Ala Leu Lys Asn Trp Ser Val Glu Ser
 210 215 220

Asn Leu Gln Ile Ala Ala Thr Gln Arg Glu Leu Ile Asp Ser Ala Phe
 225 230 235 240
 His Ala Leu Arg Pro Gly Gly Thr Leu Val Tyr Ser Thr Cys Thr Leu
 245 250 255
 Asn Arg Asp Glu Asn Glu Asp Val Cys Leu Trp Leu Lys Gln Arg Tyr
 260 265 270
 Val Asp Ala Val Glu Phe Leu Pro Leu Asp Thr Leu Phe Asp Ser Ala
 275 280 285
 Ser His Ala Ala Thr Pro Glu Gly Phe Leu His Val Phe Pro Gln Ile
 290 295 300
 Tyr Asp Cys Glu Gly Phe Phe Val Ala Arg Leu Arg Lys Thr Arg Ala
 305 310 315 320
 Val Asp Pro Leu Pro Ala Pro Lys Phe Lys Val Gly Asn Phe Pro Phe
 325 330 335
 Ala Pro Val Lys Gly Arg Glu Ala Ala Gln Ala Gln Ala Ala Ala Ser
 340 345 350
 Lys Val Gly Leu His Trp Asp Glu Ser Leu Arg Leu Trp Met Arg Asp
 355 360 365
 Lys Glu Leu Trp Leu Phe Pro Val Asn Ile Glu Pro Leu Ile Gly Lys
 370 375 380
 Val Arg Phe Ser Arg Leu Gly Ile Arg Leu Ala Glu Ile His Asn Lys
 385 390 395 400
 Gly Tyr Arg Trp Gln His Glu Ala Val Ile Ala Leu Ala Gly Ser Glu
 405 410 415
 Asn Thr Phe Ala Leu Thr His Gln Glu Ala Glu Glu Trp Tyr Arg Gly
 420 425 430
 Arg Asp Val Tyr Pro Glu Asp Gly Pro Leu Gln Asp Glu Val Ile Val
 435 440 445
 Thr Tyr Gln Gly Tyr Pro Leu Gly Leu Ala Lys Lys Val Gly Ser Arg
 450 455 460
 Leu Lys Asn Ser Tyr Pro Arg Glu Leu Val Arg Asp Gly Arg Leu Phe
 465 470 475 480
 Thr Gly Asn Asn Arg Ser Ala
 485

<210> 7502

<211> 425

<212> PRT

<213> Enterobacter cloacae

<400> 7502

Arg Ser Ala Asn Phe Pro Leu Val Arg Leu Ser Pro Tyr Lys Thr Asp
 1 5 10 15
 Ala Asn Val Phe Val Tyr Thr Thr Arg Ile Phe Phe Arg Gly Ile Phe
 20 25 30
 Met Thr Leu Leu Gly Thr Ala Leu Arg Pro Ala Ala Thr Arg Val Met
 35 40 45
 Leu Leu Gly Ser Gly Glu Leu Gly Lys Glu Val Ala Ile Glu Cys Gln
 50 55 60
 Arg Leu Gly Val Glu Val Ile Ala Val Asp Arg Tyr Ala Asn Ala Pro
 65 70 75 80
 Ala Met His Val Ala His Arg Ser His Val Ile Asp Met Leu Asp Gly
 85 90 95
 Asn Ala Leu Arg Ala Leu Ile Ala Glu Lys Pro Asp Phe Val Val
 100 105 110
 Pro Glu Ile Glu Ala Ile Ala Thr Glu Met Leu Val Ala Leu Glu Gln
 115 120 125
 Glu Gly Gln Arg Val Val Pro Cys Ala Thr Ala Ala Lys Leu Thr Met
 130 135 140
 Asn Arg Glu Gly Ile Arg Arg Leu Ala Ala Glu Glu Leu Gln Leu Pro
 145 150 155 160

Thr Ser Ser Tyr Arg Phe Ala Gly Asp Lys Ala Ala Phe Leu Gln Ala
 165 170 175
 Val Glu Glu Ile Gly Tyr Pro Cys Ile Ile Lys Pro Val Met Ser Ser
 180 185 190
 Ser Gly Lys Gly Gln Ser Phe Ile Arg Asp Ser Ser Thr Leu Asp Gln
 195 200 205
 Ala Trp Asp Tyr Ala Gln Gln Gly Gly Arg Ala Gly Ala Gly Arg Val
 210 215 220
 Ile Val Glu Gly Val Val Lys Phe Asp Phe Glu Ile Thr Leu Leu Thr
 225 230 235 240
 Val Ser Ala Val Asp Gly Val Tyr Phe Cys Asp Pro Ile Gly His Arg
 245 250 255
 Gln Glu Asp Gly Asp Tyr Arg Glu Ser Trp Gln Pro Gln Gln Met Ser
 260 265 270
 Ala Leu Ala Leu Ala Arg Ala Gln Glu Ile Ala Arg Lys Thr Val Leu
 275 280 285
 Ala Leu Gly Gly Tyr Gly Leu Phe Gly Val Glu Leu Phe Val Cys Gly
 290 295 300
 Asp Glu Val Ile Phe Ser Glu Val Ser Pro Arg Pro His Asp Thr Gly
 305 310 315 320
 Met Val Thr Leu Ile Ser Gln Asp Leu Ser Glu Phe Ala Leu His Val
 325 330 335
 Arg Ala Phe Leu Gly Leu Pro Val Gly Gly Ile Arg Gln Tyr Gly Pro
 340 345 350
 Ala Ala Ser Ala Val Ile Leu Pro Gln Leu Thr Ser Gln Asn Val Thr
 355 360 365
 Phe Asp Asn Val Glu Gly Ala Val Gly Ala Gly Leu Gln Val Arg Leu
 370 375 380
 Phe Gly Lys Pro Glu Ile Asp Gly Ser Arg Arg Leu Gly Val Ala Leu
 385 390 395 400
 Ala Thr Gly Glu Asn Val Asp Glu Ala Val Ala Arg Ala Lys Ile Ala
 405 410 415
 Ala Thr Ala Val Lys Val Thr Gly
 420 425

<210> 7503

<211> 95

<212> PRT

<213> Enterobacter cloacae

<400> 7503

Cys Thr Gly Ser Gln Ser Leu Arg Arg Pro Gly Glu Thr Gln Leu Tyr
 1 5 10 15
 Pro Arg Gln Asn Gly Ser Trp Arg Ser Gly Ala Val Ile Leu Leu Pro
 20 25 30
 Pro Gly Asp Glu Cys Leu Pro Gly Ser Trp Ser Val Leu Pro Gln Trp
 35 40 45
 Arg Lys Ala Leu Arg Ala Gly Leu Pro Ala Gln Gly Gln Pro Ala Ser
 50 55 60
 Gln Trp Gln Trp Pro Gln Phe Gln Ala Pro Arg Asn Pro Val Phe Pro
 65 70 75 80
 Arg Gln Leu Thr Pro Ala Gly His Cys Arg Gln Ala Tyr Arg
 85 90 95

<210> 7504

<211> 292

<212> PRT

<213> Enterobacter cloacae

<400> 7504

Asn Ser Met Leu Ala Leu Ser Tyr Val Ala Leu Leu Phe Ile His Phe

```

1           5           10           15
Ala Ala Leu Met Leu Leu Phe Gly Asn Ala Leu Tyr Ser Val Trp Phe
20           25           30
Ala Pro Ser Ser Leu Gln Arg Leu Met Thr Arg Arg Phe Gln Arg Gln
35           40           45
Gln Lys Leu Ala Ala Leu Ile Ser Leu Met Ala Ala Leu Leu Met Phe
50           55           60
Gly Leu Gln Ser Gly Leu Met Gly Asn Gly Trp Ser Asp Val Ile Arg
65           70           75           80
Pro Ala Val Trp Arg Ser Val Leu Gly Thr Gln Phe Gly Gly Val Trp
85           90           95
Leu Trp Gln Met Val Leu Ala Ala Val Thr Ala Gly Ala Ala Trp Leu
100          105          110
Thr Pro Gln Lys Gly Ser Arg Leu Leu Leu Leu Val Met Gly Gln Leu
115          120          125
Val Leu Leu Ala Gly Val Gly His Ala Ala Met Asn Gly Gly Ala Pro
130          135          140
Gly Ala Leu His Arg Leu Asn His Ala Leu His Leu Leu Cys Ala Ala
145          150          155          160
Thr Trp Val Gly Gly Leu Leu Pro Leu Leu Phe Cys Met Arg Leu Ala
165          170          175
Lys Gly Arg Trp Gln Pro Ala Ala Ile Phe Thr Met Met Arg Phe Ser
180          185          190
Arg Val Gly His Tyr Ala Val Ala Gly Val Leu Leu Thr Gly Ile Ile
195          200          205
Asn Thr Leu Phe Ile Val Gly Ile Asn Val Pro Trp His Ala Pro Tyr
210          215          220
Val Gln Leu Leu Leu Leu Lys Cys Ala Leu Val Met Met Met Val Ala
225          230          235          240
Ile Ala Leu Ala Asn Arg Tyr Phe Leu Val Pro Arg Phe Arg Pro Glu
245          250          255
Ala Gly Arg Glu Gln Gln Ile Phe Ile Arg Met Thr Gln Ala Glu Val
260          265          270
Val Leu Gly Ala Leu Val Leu Ala Ala Val Ser Leu Phe Ala Thr Trp
275          280          285
Glu Pro Phe
290

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<210> 7505

<211> 229

<212> PRT

<213> Enterobacter cloacae

<400> 7505

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Ala Val Lys Val Thr His Cys Tyr Val Arg Lys Asn Met Ser Gly Trp
1           5           10           15
Met Asn Gln Leu Gln Ser Leu Leu Gly Gln Lys Gly Ser Ser Ser Gly
20           25           30
Glu Gln Gly Leu Ser Lys Leu Leu Val Pro Gly Ala Leu Gly Gly Leu
35           40           45
Ala Gly Leu Leu Val Ala Asn Lys Ser Ser Arg Lys Leu Leu Thr Lys
50           55           60
Tyr Gly Thr Gly Ala Leu Leu Ala Gly Gly Gly Ala Ile Ala Gly Ser
65           70           75           80
Val Leu Trp Asn Lys Tyr Lys Asp Lys Val Arg Ser Ala His Gln Asp
85           90           95
Glu Pro Gln Tyr Gly Lys Gln Val Ser Pro Leu Asp Leu Arg Thr Glu
100          105          110
Arg Leu Ile Leu Ala Leu Val Phe Ala Ala Lys Ser Asp Gly His Ile
115          120          125
Asp Ala Ser Glu Arg Ala Ala Ile Glu Gln Gln Met Arg Glu Ala Gly

```

130		135		140
Val Glu Glu Gln Gly Arg Ala Leu Val Ala Gln Ala Ile Glu Gln Pro				
145		150		155
Leu Asp Pro Gln Arg Leu Ala Gln Gly Val Lys Asn Glu Glu Glu Ala				
	165		170	175
Leu Glu Leu Tyr Phe Leu Ser Cys Ala Ala Ile Asp Ile Asp His Phe				
	180		185	190
Met Glu Arg Ser Tyr Leu Asn Ala Leu Gly Asp Ala Leu Lys Ile Pro				
	195		200	205
Gln Asp Val Arg Glu Gly Ile Glu Gln Asp Ile Gln Gln Gln Lys Gln				
	210		215	220
Thr Leu Ala Gly				
225				

<210> 7506

<211> 701

<212> PRT

<213> Enterobacter cloacae

<400> 7506

Asp Val Lys Arg Lys Ser Lys Asn Ala Met Pro Pro Lys Ala Arg Arg				
1	5	10	15	
Thr Pro Tyr Ala Ile Thr Thr His Gly Asp Thr Arg Ile Asp Asn Tyr				
	20	25	30	
Tyr Trp Leu Arg Asp Asp Ser Arg Ser Arg Pro Glu Val Leu Asp Tyr				
	35	40	45	
Leu His Glu Glu Asn Asp Tyr Gly Arg Gln Val Met Ala Ser Gln Gln				
	50	55	60	
Ala Leu Gln Asp Gln Leu Asn Glu Met Val Gln Arg Ile Pro Gln				
65	70	75	80	
Arg Asp Val Ser Ala Pro Trp Cys Lys Asn Gly Tyr Arg Tyr Arg His				
	85	90	95	
Ile Tyr Glu Pro Gly Asn Glu Tyr Pro Ile Tyr Gln Arg Gln Ser Val				
	100	105	110	
Leu Ser Ala Glu Trp Asp Glu Trp Glu Ile Leu Leu Asp Ala Asn Lys				
	115	120	125	
Arg Ala Ala His Ser Glu Phe Tyr Thr Leu Gly Gly Met Ser Ile Ser				
	130	135	140	
Pro Asp Asn Ala Ile Met Ala Leu Ala Glu Asp Tyr Leu Ser Arg Arg				
145	150	155	160	
Gln Tyr Gly Leu Arg Phe Arg Asn Leu Glu Thr Gly Asn Trp Tyr Pro				
	165	170	175	
Glu Met Leu Asp Asn Val Ser Pro Asp Phe Val Trp Gly Asn Asp Ser				
	180	185	190	
Glu Thr Val Tyr Tyr Val Lys Lys His Ala Ser Thr Leu Leu Pro Tyr				
	195	200	205	
Gln Val Trp Arg His Thr Val Gly Thr Asp Ser Ala Asp Asp Glu Leu				
	210	215	220	
Val Tyr Glu Glu Lys Asp Glu Thr Phe Tyr Val Ser Leu His Lys Thr				
225	230	235	240	
Ser Ser Arg His Tyr Val Ile Ile Phe Leu Ser Ser Ala Thr Thr Ser				
	245	250	255	
Glu Val Leu Leu Leu Asp Ala Glu Leu Pro Asp Ala Gln Pro Leu Cys				
	260	265	270	
Phe Leu Pro Arg Arg Lys Asp His Glu Tyr Ser Leu Asp His Phe Gln				
	275	280	285	
His Ser Phe Tyr Leu Arg Ser Asn Arg Glu Gly Lys Asn Phe Gly Leu				
	290	295	300	
Tyr Lys Thr Lys Val Arg Asp Glu Arg Lys Trp Glu Val Leu Ile Pro				
305	310	315	320	
Ala Arg Asp Gln Val Met Leu Glu Gly Phe Thr Leu Phe Thr Asp Trp				


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          325          330          335
Leu Val Val Glu Arg Gln Arg Gly Leu Thr Ser Ile Arg Gln Ile
          340          345          350
Asn Arg Lys Asn Arg Glu Val Val Gly Ile Ala Phe Asp Asp Pro Ala
          355          360          365
Tyr Val Thr Trp Ile Gly Phe Asn Pro Glu Pro Glu Ser Ser Arg Leu
          370          375          380
Arg Tyr Gly Tyr Ser Ser Met Thr Thr Pro Asp Thr Leu Phe Glu Leu
          385          390          395
Asp Met Asp Thr Gly Gln Arg Gln Val Ile Lys Gln Ala Glu Val Arg
          405          410          415
Gly Phe Glu Ser Glu Asn Tyr Arg Ser Glu His Leu Trp Val Thr Ala
          420          425          430
Arg Asp Gly Val Glu Val Pro Val Ser Leu Val Tyr His Lys Ala His
          435          440          445
Phe Asn Lys Gly Lys Asn Pro Ile Leu Val Tyr Gly Tyr Gly Ser Tyr
          450          455          460
Gly Ser Ser Met Asp Ala Asp Phe Ser Ser Ser Arg Leu Ser Leu Leu
          465          470          475
Asp Arg Gly Phe Val Tyr Ala Ile Ala His Ile Arg Gly Gly Gly Glu
          485          490          495
Leu Gly Gln His Trp Tyr Glu Asp Gly Lys Phe Leu Lys Lys Lys Asn
          500          505          510
Thr Phe Asn Asp Tyr Leu Asp Val Cys Asp Ala Leu Ile Ala Gln Gly
          515          520          525
Tyr Gly Asp Pro Gln Leu Cys Phe Gly Met Gly Gly Ser Ala Gly Gly
          530          535          540
Met Leu Met Gly Ala Val Ile Asn Gln Arg Pro Glu Leu Phe Lys Gly
          545          550          555
Val Ile Ala Gln Val Pro Phe Val Asp Val Val Thr Thr Met Leu Asp
          565          570          575
Glu Ser Ile Pro Leu Thr Thr Gly Glu Phe Glu Glu Trp Gly Asn Pro
          580          585          590
Gln Asp Glu Thr Tyr Tyr Arg Tyr Met Lys Glu Tyr Ser Pro Tyr Asp
          595          600          605
Asn Val Glu Ala Lys Ala Tyr Pro His Met Leu Val Thr Thr Gly Leu
          610          615          620
His Asp Ser Gln Val Gln Tyr Trp Glu Pro Ala Lys Trp Val Ala Lys
          625          630          635
Leu Arg Glu Leu Lys Thr Asp Asp Asn Leu Leu Leu Leu Cys Thr Asp
          645          650          655
Met Asp Ser Gly His Gly Gly Lys Ser Gly Arg Phe Lys Ser Tyr Glu
          660          665          670
Gly Val Ala Leu Glu Tyr Ala Phe Leu Ile Gly Leu Ala Gln Asp Thr
          675          680          685
Leu Pro Gly Arg Ala Gly Thr Gln Ala Ser Pro Lys
          690          695          700

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<210> 7507

<211> 114

<212> PRT

<213> Enterobacter cloacae

<400> 7507

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His Met Lys Lys Thr Leu Leu Ser Leu Leu Leu Leu Thr Cys Ala Ser
1          5          10          15
Ser Ala Leu Ala Ala Pro Gln Val Ile Thr Val Ser Arg Phe Glu Val
          20          25          30
Gly Lys Asp Asn Trp Ala Phe Asn Arg Glu Glu Val Met Leu Thr Cys
          35          40          45
Arg Pro Gly Asn Ala Leu Tyr Val Ile Asn Pro Ser Thr Leu Val Gln

```

50		55		60											
Tyr	Pro	Leu	Asn	Asp	Val	Ala	Glu	Gln	Gln	Val	Ala	Ser	Gly	Lys	Ser
65					70					75					80
Asn	Gly	Gln	Pro	Val	Ser	Val	Ile	Gln	Val	Asp	Asp	Pro	Ala	Asn	Pro
				85					90					95	
Gly	Gln	Lys	Lys	Ser	Leu	Ala	Pro	Phe	Ile	Glu	Arg	Ala	Glu	Lys	Leu
			100					105					110		
Cys															

<210> 7508

<211> 167

<212> PRT

<213> Enterobacter cloacae

<400> 7508

Ile	Met	Asn	Lys	Thr	Glu	Phe	Tyr	Ala	Asp	Leu	Asn	Arg	Asp	Phe	Lys
1			5						10					15	
Ala	Leu	Met	Ala	Gly	Glu	Thr	Ser	Phe	Leu	Ala	Thr	Leu	Ala	Asn	Thr
			20					25					30		
Ser	Ala	Leu	Leu	Phe	Glu	Arg	Leu	Ser	Asp	Val	Asn	Trp	Ala	Gly	Phe
		35					40					45			
Tyr	Leu	Leu	Glu	Gly	Asp	Thr	Leu	Val	Leu	Gly	Pro	Phe	Gln	Gly	Lys
	50				55					60					
Leu	Ala	Cys	Val	Arg	Ile	Pro	Val	Gly	Arg	Gly	Val	Cys	Gly	Thr	Ala
65				70					75						80
Val	Ala	Thr	Arg	Gln	Val	Gln	Arg	Val	Glu	Asp	Val	His	Ala	Phe	Asp
			85					90						95	
Gly	His	Ile	Ala	Cys	Asp	Ala	Ser	Ser	Asn	Ser	Glu	Ile	Val	Leu	Pro
		100					105					110			
Leu	Val	Val	Lys	Asn	Gln	Ile	Ile	Gly	Val	Leu	Asp	Ile	Asp	Ser	Thr
		115				120						125			
Val	Phe	Ser	Arg	Phe	Thr	Ala	Glu	Asp	Glu	Gln	Gly	Leu	Arg	Ala	Leu
	130				135						140				
Ala	Ala	Asn	Leu	Glu	Asn	Val	Leu	Ala	Asp	Thr	Asp	Tyr	His	Lys	Phe
145				150					155						160
Phe	Ala	Ser	Val	Ala	Gly										
			165												

<210> 7509

<211> 172

<212> PRT

<213> Enterobacter cloacae

<400> 7509

Ser	Gly	Asn	Phe	Met	Glu	Asn	Gln	Pro	Lys	Leu	Asn	Ser	Ser	Lys	Glu
1			5						10					15	
Val	Ile	Ala	Phe	Leu	Ala	Glu	Arg	Phe	Pro	Gln	Cys	Phe	Ser	Ala	Glu
		20						25					30		
Gly	Glu	Ala	Arg	Pro	Leu	Lys	Val	Gly	Ile	Phe	Gln	Asp	Leu	Val	Ala
	35					40						45			
Arg	Val	Glu	Gly	Glu	Met	Asn	Leu	Ser	Lys	Thr	Gln	Leu	Arg	Ser	Ala
	50				55						60				
Leu	Arg	Leu	Tyr	Thr	Ser	Trp	Arg	Tyr	Leu	Tyr	Gly	Ile	Lys	Pro	
65				70					75					80	
Gly	Ala	Thr	Arg	Val	Asp	Leu	Asp	Gly	Asn	Pro	Cys	Gly	Glu	Leu	Asp
			85					90					95		
Glu	Gln	His	Val	Glu	His	Ala	Arg	Lys	Gln	Leu	Glu	Glu	Ala	Lys	Ala
		100					105					110			
Arg	Val	Gln	Ala	Gln	Arg	Ala	Glu	Gln	Gln	Ala	Lys	Lys	Arg	Glu	Ala
	115					120						125			

Ala Ala Ala Asn Gly Gln Glu Asp Ala Pro Arg Arg Glu Arg Lys Pro
 130 135 140
 Arg Pro Ala Pro Arg Arg Thr Glu Asn Asn Asp Arg Lys Pro Arg Ala
 145 150 155 160
 Val Phe Thr His Gly Pro Gly Arg Thr Ala Ile Ala
 165 170

<210> 7510

<211> 130

<212> PRT

<213> Enterobacter cloacae

<400> 7510

Arg Lys Gly Met Ile Val Met His Phe Thr Pro Ser Arg Val Ala Cys
 1 5 10 15
 Ala Leu Ala Phe Leu Leu Ser Ser Ala Thr Ala Thr Ser Ala Leu Ala
 20 25 30
 His Ala His Leu Lys Gln Gln Ser Pro Gln Glu Asn Thr Val Ala Val
 35 40 45
 Ala Pro Glu Val Ile Thr Leu Asn Phe Ser Glu Gly Ile Glu Pro Ala
 50 55 60
 Phe Ser Gly Val Val Val Thr Asp Ala Gln Gln His Lys Ile Gln Thr
 65 70 75 80
 Gly Ala Val Lys Arg Asp Glu Lys Asp Asn Ala Lys Leu Ile Val Pro
 85 90 95
 Leu Glu Lys Pro Leu Thr Thr Gly Thr Tyr Thr Val Asp Trp His Val
 100 105 110
 Val Ser Val Asp Gly His Lys Thr Lys Gly Ser Tyr His Phe Ser Val
 115 120 125
 Lys
 130

<210> 7511

<211> 259

<212> PRT

<213> Enterobacter cloacae

<400> 7511

Arg Pro Gly Asn Lys Gly Leu Ile Ala Gln Arg Ser Leu Phe Pro Ala
 1 5 10 15
 Gly Leu Trp Phe Val Trp Ile Arg Glu Ile Arg Arg Gln Phe Met Thr
 20 25 30
 Phe Ser Val Ala Ala Ile Leu Leu Thr Gly Gly Val Ile Tyr Gln Lys
 35 40 45
 Ile Glu Gly Glu His Trp Arg His Val Trp Val Ala Ser Asp Ile His
 50 55 60
 Gly Cys Tyr Gln Trp Leu Met Asp Glu Leu Lys Arg Arg His Phe Asn
 65 70 75 80
 Pro Asp Thr Asp Leu Leu Ile Ser Val Gly Asp Ile Ile Asp Arg Gly
 85 90 95
 Pro Asp Ser Val Lys Cys Leu Gln Leu Met Gln Glu Asn Trp Phe Tyr
 100 105 110
 Ala Ile Arg Gly Asn His Glu Gln Met Ala Leu Asp Ala Leu Ile Asn
 115 120 125
 Asn Asp Phe Ser Leu Trp Ser Ile Asn Gly Gly Asn Trp Phe Thr Gly
 130 135 140
 Leu Lys Asp Ala Gln Gln Lys Gln Ala Lys Gly Leu Leu Asp Ala Cys
 145 150 155 160
 Arg Asp Leu Pro His Ile Ile Glu Ile Thr Cys Lys Asn Gly Leu Asn
 165 170 175
 Val Ile Ala His Ala Asp Tyr Pro Ser Ala Glu Tyr Gly Trp His Lys

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<210> 7512
<211> 72
<212> PRT
<213> Enterobacter cloacae
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<210> 7513
<211> 529
<212> PRT
<213> Enterobacter cloacae
```

<400> 7513															
Lys	Phe	Asp	Glu	Lys	Arg	Asp	Thr	Val	Asp	Ser	Ile	Phe	Ser	Ile	Gly
1				5					10					15	
Ile	Gln	Ser	Leu	Trp	Asp	Glu	Leu	Arg	His	Met	Pro	Val	Gly	Gly	Val
			20					25					30		
Trp	Trp	Val	Asn	Thr	Asp	Arg	Asn	Glu	Asp	Ala	Ile	Ser	Leu	Val	Asn
			35				40					45			
Gln	Thr	Ile	Ala	Ala	Gln	Gly	Lys	Asp	Ser	Arg	Val	Ala	Ile	Ile	Thr
	50					55					60				
Met	Gly	Asp	Glu	Pro	Lys	Ser	Ile	Ile	Arg	Leu	Asp	Ser	Asn	Arg	Gly
65					70					75				80	
Pro	Gln	Thr	Val	Arg	Leu	Phe	Ser	Met	Pro	Ala	Glu	Ala	Asp	Ser	Leu
				85					90					95	
Tyr	Phe	Leu	Pro	Arg	Asp	Ile	Gln	Cys	Ser	Ile	Val	Pro	Glu	His	Tyr
			100					105					110		
Leu	Leu	Val	Leu	Lys	Cys	Ser	Asn	Asn	Gly	Leu	Gln	Asn	Ile	Pro	Ser
			115				120					125			
Glu	Lys	Leu	Leu	Lys	Trp	Leu	Glu	Arg	Ile	Asn	Arg	Trp	Ala	Lys	Asn
	130					135					140				
Gln	Asn	Cys	Thr	Leu	Leu	Val	Val	Asn	Pro	Gly	Ser	Asn	Asn	Asp	Lys
145					150					155				160	
Leu	Phe	Ser	Leu	Leu	Met	Ser	Glu	Tyr	Arg	Ser	Leu	Tyr	Gly	Leu	Ala
				165					170					175	
Ser	Ile	Arg	Val	Gln	Thr	Asp	Ser	His	Leu	Tyr	Asp	Val	Ala	Phe	Trp
			180					185					190		
Cys	Asn	Glu	Lys	Gly	Val	Ser	Ser	Arg	Gln	Gln	Leu	Thr	Leu	Lys	His
		195					200					205			

Val Gly Asp Glu Trp His Leu Ala Gln Gln Glu Glu Thr Val Val Gln
 210 215 220
 Pro Arg Ser Asp Glu Lys Arg Val Leu Ser His Ile Ala Val Leu Glu
 225 230 235 240
 Gly Ala Pro Ala Leu Ser Glu His Trp Ser Leu Phe Asp Thr Asn Glu
 245 250 255
 Ala Leu Phe Asp Glu Ala Arg Thr Thr Gln Ala Ala Thr Ile Ile Phe
 260 265 270
 Ser Leu Ile Gln Asn Asn Gln Ile Glu Thr Leu Ala Arg His Ile His
 275 280 285
 Thr Leu Arg Arg Gln Arg Gly Ser Ala Leu Lys Ile Val Val Arg Glu
 290 295 300
 Asn Asn Thr Ser Leu Arg Ala Thr Asp Glu Arg Leu Leu Leu Gly Cys
 305 310 315 320
 Gly Ala Asn Met Val Ile Pro Trp Asn Ala Pro Leu Ser Arg Cys Leu
 325 330 335
 Thr Leu Ile Glu Ser Ile Gln Gly Gln Gln Phe Asn Arg His Val Pro
 340 345 350
 Glu Asp Ile Ser Thr Leu Leu Ser Met Thr Gln Pro Met Lys Leu Arg
 355 360 365
 Gly Tyr Gln Lys Trp Asp Thr Phe Cys Asp Ala Val Gly Asn Met Met
 370 375 380
 Ser Asn Thr Leu Leu Pro Ala Asp Gly Lys Gly Val Met Val Ala Leu
 385 390 395 400
 Arg Pro Val Pro Gly Ile Arg Val Glu Gln Ala Leu Thr Leu Cys Arg
 405 410 415
 Pro Asn Arg Ile Gly Asp Ile Met Thr Ile Gly Asp Asn Arg Leu Val
 420 425 430
 Leu Phe Leu Ser Phe Cys Arg Val Asn Asp Leu Asp Thr Ala Leu Asn
 435 440 445
 His Ile Phe Pro Leu Pro Thr Gly Asp Ile Phe Ser Asn Arg Met Val
 450 455 460
 Trp Phe Glu Asp Asn Leu Ile Ser Ala Glu Leu Val Gln Met Arg Ala
 465 470 475 480
 Leu Ala Pro Glu Lys Trp Ala Lys Pro Leu Pro Val Thr Ser Gly Ala
 485 490 495
 Lys Pro Val Leu Asn Ala Lys His Asp Gly His Val Trp Arg Arg Val
 500 505 510
 Pro Glu Pro Leu Arg Leu Leu Asp Glu Asn Lys Glu Ser Ala Pro Leu
 515 520 525

<210> 7514

<211> 571

<212> PRT

<213> Enterobacter cloacae

<400> 7514

Val Ala Leu Arg Thr Ser Arg Gln Thr Glu Asn Met Thr Asn Ser Thr
 1 5 10 15
 Tyr Thr Ser Ser Ala Pro Ser Pro Leu Trp Gln Tyr Trp Arg Gly Leu
 20 25 30
 Ser Gly Trp Asn Phe Tyr Phe Leu Val Lys Phe Gly Leu Leu Trp Ala
 35 40 45
 Gly Tyr Leu Asn Phe His Pro Leu Leu Asn Leu Val Phe Met Ala Phe
 50 55 60
 Leu Leu Met Pro Ile Pro Asn Leu Arg Leu His Arg Ile Arg His Trp
 65 70 75 80
 Val Ala Ile Pro Ile Gly Phe Ala Leu Phe Trp His Asp Thr Trp Leu
 85 90 95

Pro	Gly	Pro	Glu	Ser	Ile	Met	Ser	Gln	Gly	Ser	Gln	Val	Ala	Gly	Phe	
			100					105					110			
Ser	Ala	Asp	Tyr	Met	Leu	Asp	Leu	Val	Glu	Arg	Phe	Ile	Asn	Trp	Gln	
		115					120					125				
Met	Ile	Gly	Ala	Val	Phe	Val	Leu	Leu	Val	Ala	Trp	Leu	Phe	Leu	Ser	
	130					135					140					
Gln	Trp	Ile	Arg	Val	Thr	Val	Phe	Val	Val	Ala	Ile	Met	Ile	Trp	Leu	
145					150					155					160	
Asn	Val	Leu	Thr	Leu	Thr	Gly	Pro	Ser	Phe	Ser	Leu	Trp	Pro	Ala	Gly	
				165					170					175		
Gln	Pro	Thr	Thr	Thr	Val	Thr	Thr	Thr	Gly	Gly	Ser	Ala	Ala	Ala	Thr	
			180					185					190			
Val	Ala	Thr	Ala	Gly	Asp	Thr	Pro	Val	Val	Gly	Asp	Ile	Pro	Ala	Gln	
		195					200					205				
Thr	Ala	Pro	Pro	Thr	Ser	Thr	Asn	Leu	Asn	Ala	Trp	Leu	Ser	Ser	Phe	
	210					215					220					
Tyr	Ala	Ala	Glu	Asp	Lys	Arg	Gln	Thr	Lys	Phe	Pro	Asp	Ala	Leu	Pro	
225					230					235					240	
Ala	Asp	Ala	Gln	Pro	Phe	Glu	Leu	Leu	Val	Ile	Asn	Ile	Cys	Ser	Leu	
				245					250					255		
Ser	Trp	Ala	Asp	Val	Asp	Ala	Ala	Gly	Leu	Met	Ser	His	Pro	Leu	Trp	
			260					265					270			
Ser	His	Phe	Asp	Ile	Gln	Phe	Lys	Asp	Phe	Asn	Ser	Ala	Thr	Ser	Tyr	
		275					280					285				
Ser	Gly	Pro	Ala	Ala	Ile	Arg	Leu	Leu	Arg	Ala	Ser	Cys	Gly	Gln	Pro	
	290					295					300					
Ser	His	Lys	Asn	Leu	Tyr	Gln	Pro	Ala	Ala	Asn	Gln	Cys	Tyr	Leu	Phe	
305					310					315					320	
Asp	Asn	Leu	Ala	Lys	Leu	Gly	Phe	Thr	Gln	His	Leu	Met	Met	Gly	His	
				325					330					335		
Asn	Gly	Gln	Phe	Gly	Asn	Phe	Leu	Lys	Glu	Val	Arg	Glu	Gln	Gly	Gly	
			340					345					350			
Met	Gln	Ala	Pro	Leu	Met	Asp	Gln	Lys	Gly	Leu	Pro	Val	Thr	Leu	Leu	
		355					360					365				
Gly	Phe	Asp	Gly	Ser	Pro	Val	Tyr	Asp	Asp	Thr	Ala	Val	Leu	Gln	Arg	
	370					375					380					
Trp	Leu	Asp	Thr	Val	Gly	Lys	Glu	Glu	Gly	Thr	Arg	Ser	Ala	Thr	Phe	
385					390					395					400	
Tyr	Asn	Thr	Leu	Pro	Leu	His	Asp	Gly	Asn	His	Tyr	Pro	Gly	Val	Ser	
				405					410					415		
Lys	Thr	Ala	Asp	Tyr	Lys	Ala	Arg	Ala	Gln	Lys	Phe	Phe	Asp	Glu	Leu	
		420						425					430			
Asn	Ala	Phe	Phe	Asn	Glu	Leu	Glu	Lys	Ser	Gly	Arg	Lys	Val	Met	Val	
		435					440					445				
Val	Val	Val	Pro	Glu	His	Gly	Gly	Ala	Leu	Lys	Gly	Asp	Arg	Met	Gln	
	450					455					460					
Val	Ser	Gly	Leu	Arg	Asp	Ile	Pro	Ser	Pro	Ser	Ile	Thr	Asn	Val	Pro	
465					470					475					480	
Ala	Gly	Ile	Lys	Phe	Phe	Gly	Met	Lys	Ala	Pro	His	Gln	Gly	Ala	Pro	
				485					490					495		
Val	Glu	Ile	Thr	Gln	Pro	Ser	Ser	Tyr	Leu	Ala	Ile	Ser	Glu	Leu	Val	
		500						505					510			
Ala	Arg	Ala	Val	Asp	Gly	Lys	Leu	Phe	Val	Glu	Asp	Ser	Val	Asn	Trp	
		515					520					525				
Asp	Gln	Leu	Thr	Ser	Gly	Leu	Pro	Gln	Thr	Ala	Glu	Val	Ser	Glu	Asn	
	530					535					540					
Ala	Asn	Ala	Val	Val	Ile	Gln	Tyr	Gln	Asn	Lys	Pro	Tyr	Val	Arg	Leu	
545					550					555					560	
Asn	Ala	Gly	Asp	Trp	Val	Pro	Tyr	Pro	Gln							
				565					570							

<210> 7515
 <211> 338
 <212> PRT
 <213> Enterobacter cloacae

<400> 7515

```

Ser Ser Leu Tyr Trp Pro Asn Gly Arg Ser Glu Cys Arg Gly Asp His
1      5      10      15
Cys Val Lys Asp Asn Thr Ile Pro Leu Thr Leu Ile Gly Ile Leu Ala
20      25      30
Asp Gly Glu Phe His Ser Gly Glu Gln Leu Gly Glu Gln Leu Gly Met
35      40      45
Ser Arg Ala Ala Ile Asn Lys His Ile Gln Thr Leu Arg Asp Trp Gly
50      55      60
Val Asp Val Phe Thr Val Pro Gly Lys Gly Tyr Ser Leu Pro Glu Pro
65      70      75      80
Ile Gln Leu Leu Asn Glu Glu Ile Ile Arg Ser Gln Ile Gly His Gly
85      90      95
Asn Val Ala Val Leu Pro Val Ile Asp Ser Thr Asn Gln Tyr Leu Leu
100     105     110
Asp Arg Leu Ser Glu Leu Lys Ser Gly Asp Ala Cys Val Ala Glu Tyr
115     120     125
Gln Gln Ala Gly Arg Gly Arg Arg Gly Arg Lys Trp Phe Ser Pro Phe
130     135     140
Gly Ala Asn Leu Tyr Leu Ser Met Tyr Trp Arg Leu Ala Gln Gly Pro
145     150     155     160
Ala Ala Ala Ile Gly Leu Ser Leu Val Ile Gly Ile Val Met Ala Glu
165     170     175
Val Leu His Asp Leu Gly Ala Asp Gln Val Arg Val Lys Trp Pro Asn
180     185     190
Asp Leu Tyr Leu Asn Asp Arg Lys Leu Ala Gly Ile Leu Val Glu Leu
195     200     205
Thr Gly Lys Thr Gly Asp Ala Ala Gln Ile Val Ile Gly Ala Gly Leu
210     215     220
Asn Met Val Met Arg Asn Val Gln Asn Asp Val Val Asn Gln Ala Trp
225     230     235     240
Thr Asn Leu Gln Glu Ala Gly Ile Thr Ile Asp Arg Asn Thr Leu Ala
245     250     255
Val Arg Met Ile Asn Glu Leu Arg Ser Ser Leu Thr Leu Phe Glu Gln
260     265     270
Glu Gly Leu Ala Pro Phe Leu Ser Arg Trp Glu Lys Leu Asp Asn Phe
275     280     285
Ile Asn Arg Pro Val Lys Leu Leu Ile Gly Asp Lys Glu Ile Tyr Gly
290     295     300
Thr Ser Arg Gly Ile Asp Ala Gln Gly Ala Leu Leu Leu Glu Gln Asp
305     310     315     320
Gly Val Ile Lys Pro Trp Val Gly Gly Glu Ile Ser Leu Arg Ser Ala
325     330     335
Glu

```

<210> 7516
 <211> 881
 <212> PRT
 <213> Enterobacter cloacae

<400> 7516

```

Thr Ala Gly Ala Cys Arg Glu Phe Ser Met Ser Arg Leu Thr Asn Trp
1      5      10      15
Leu Leu Ile Pro Pro Val Ser Ser Arg Leu Ser Glu Arg Tyr Arg His
20      25      30

```

Tyr Arg Tyr His Gly Ala Ser Ser Leu Ser Ala Ala Leu Gly Cys Leu
 35 40 45
 Trp Met Ile Leu Ala Trp Met Phe Ile Pro Leu Glu His Pro Arg Trp
 50 55 60
 Gln Arg Ile Arg Ala Arg His Gly Glu Leu Tyr Pro His Ile Asn Pro
 65 70 75 80
 Asp Lys Pro Arg Pro Leu Asp Pro Ala Arg Tyr Ala Ile Gln Ser Ile
 85 90 95
 Trp Leu Leu Ala Thr Ser Thr Gly Ala Glu Lys Lys Thr Ser Arg Trp
 100 105 110
 Arg Ser Phe Asp Arg Val Gln Asn Leu Arg Glu His Tyr His Gln Trp
 115 120 125
 Leu Asp Arg Leu Pro Asp Arg Val Gly Asp Lys Thr Gly His Leu Asp
 130 135 140
 Asn Gln Lys Glu Leu Gly His Leu His Pro Gly Leu Arg Arg Phe Ile
 145 150 155 160
 Leu Gly Val Val Val Val Phe Ser Leu Ile Leu Ala Leu Val Cys Ile
 165 170 175
 Thr Gln Pro Phe Asn Pro Leu Ala Gln Phe Thr Phe Leu Ile Leu Leu
 180 185 190
 Trp Gly Val Ala Leu Leu Val Arg Arg Ile Pro Gly Arg Phe Ser Ala
 195 200 205
 Leu Met Leu Ile Val Leu Ser Leu Thr Val Ser Cys Arg Tyr Ile Trp
 210 215 220
 Trp Arg Tyr Thr Ser Thr Leu Asn Trp Asp Asp Pro Val Ser Leu Val
 225 230 235 240
 Cys Gly Leu Val Leu Leu Phe Ala Glu Thr Tyr Ala Trp Ile Val Leu
 245 250 255
 Val Leu Gly Tyr Phe Gln Val Ile Trp Pro Leu Asn Arg Gln Pro Val
 260 265 270
 Pro Leu Pro Lys Asp Thr Thr Gln Trp Pro Thr Val Asp Leu Phe Val
 275 280 285
 Pro Thr Tyr Asn Glu Asp Leu Ser Val Val Lys Asn Thr Ile Tyr Ala
 290 295 300
 Ala Leu Gly Ile Asp Trp Pro Lys Asp Lys Ile Lys Ile Trp Ile Leu
 305 310 315 320
 Asp Asp Gly Gly Arg Ala Glu Phe Arg Gln Phe Ala Asp Glu Val Gly
 325 330 335
 Val Glu Tyr Ile Ala Arg Thr Thr His Glu His Ala Lys Ala Gly Asn
 340 345 350
 Ile Asn Asn Ala Leu Lys Tyr Ala Lys Gly Glu Phe Val Ser Ile Phe
 355 360 365
 Asp Cys Asp His Val Pro Thr Arg Ser Phe Leu Gln Met Thr Met Gly
 370 375 380
 Trp Phe Leu Lys Glu Lys Glu Leu Ala Met Met Gln Thr Pro His His
 385 390 395 400
 Phe Phe Ser Pro Asp Pro Phe Glu Arg Asn Leu Gly Arg Phe Arg Lys
 405 410 415
 Thr Pro Asn Glu Gly Thr Leu Phe Tyr Gly Leu Val Gln Asp Gly Asn
 420 425 430
 Asp Met Trp Asp Ala Thr Phe Phe Cys Gly Ser Cys Ala Val Ile Arg
 435 440 445
 Arg Lys Pro Leu Asp Glu Ile Gly Gly Ile Ala Val Glu Thr Val Thr
 450 455 460
 Glu Asp Ala His Thr Ser Leu Arg Leu His Arg Leu Gly Tyr Thr Ser
 465 470 475 480
 Ala Tyr Met Arg Ile Pro Gln Ala Ala Gly Leu Ala Thr Glu Ser Leu
 485 490 495
 Ser Ala His Ile Gly Gln Arg Ile Arg Trp Ala Arg Gly Met Val Gln
 500 505 510
 Ile Phe Arg Leu Asp Asn Pro Leu Met Gly Lys Gly Leu Lys Leu Ala


```
<210> 7517
<211> 1169
<212> PRT
<213> Enterobacter cloacae
```

<400> 7517
Ile Thr Thr Gly Leu Gly Pro Gly Met Arg Thr Phe Thr Leu Asn Leu
1 5 10 15
Leu Thr Leu Ser Leu Gly Leu Ala Leu Met Pro Leu Ala Gln Ala Ala
20 25 30
Asn Ser Pro Gln Gln Arg Gln Leu Glu Gln Val Arg Leu Gly Glu
35 40 45
Ser Thr Gln Arg Glu Asp Leu Val Arg Gln Ser Leu Tyr Arg Leu Glu

	50				55				60							
Leu 65	Ile	Asp	Pro	Asn	Asn 70	Pro	Asp	Val	Ile	Ala 75	Ala	Arg	Phe	Arg	Tyr 80	
Leu	Leu	Arg	Gln	Gly 85	Asp	Thr	Ala	Gly	Ala 90	Gln	Lys	Glu	Leu	Asp 95	Arg	
Leu	Lys	Gly	Met 100	Ala	Ala	Asp	Ser	Ser 105	Ala	Tyr	Gln	Ser	Ser	Arg 110	Thr	
Thr	Met	Leu	Leu	Ser	Thr	Pro	Asp 120	Gly	Arg	Gln	Ala	Leu	Gln	Gln	Ala	
Arg	Leu	Leu	Ala	Thr	Thr	Gly	His 135	Thr	Gln	Glu	Ala 140	Ile	Ala	Ala	Tyr	
Asp 145	Lys	Leu	Phe	Asp	Gly 150	Lys	Pro	Pro	Ser	Gly 155	Asp	Ile	Ala	Thr	Glu 160	
Tyr	Trp	Asn	Val	Val 165	Ala	Lys	Glu	Pro	Ala	Arg	Arg	Asn	Leu	Ala 175	Ile	
Asn	Gln	Leu	Lys 180	Lys	Ile	Asn	Ala	Ser 185	Ser	Pro	Gly	Asn	Val 190	Pro	Leu	
Gln	Ser	Ser	Leu	Ala	Gln	Leu	Leu 200	Phe	Gln	Ser	Gly 205	Arg	Arg	Asp	Glu	
Gly	Phe 210	Ala	Val	Leu	Gln	Glu 215	Met	Ala	Lys	Ser	Asn 220	Asn	Gly	Arg	Ser	
Gln 225	Ala	Ser	Asp	Met	Trp 230	Tyr	Gln	Gln	Ile	Lys 235	Asp	Gln	Pro	Val	Ser 240	
Ser	Ala	Ser	Val	Thr 245	Ala	Leu	Gln	Gln	Tyr 250	Leu	Ser	Val	Phe	Ser 255	Asp	
Gly	Asp	Asn	Val 260	Thr	Ala	Ala	Arg	Thr 265	Gln	Leu	Glu	Ala	Gln 270	Gln	Lys	
Gln	Leu	Ala 275	Asp	Pro	Ala	Phe	Arg 280	Ala	Lys	Ala	Glu	Gly 285	Leu	Ala	Ala	
Val	Asp 290	Ala	Gly	Gln	Gly	Ser 295	Lys	Ala	Val	Thr	Glu 300	Leu	Gln	Lys	Ala	
Val 305	Ser	Ala	Asn	His	Ala 310	Asp	Ser	Glu	Ala	Val 315	Gly	Ala	Leu	Gly	Gln 320	
Ala	Tyr	Ser	Gln	Lys 325	Gly	Asp	Arg	Ala	Arg 330	Ala	Val	Ala	Gln	Phe 335	Glu	
Lys	Ala	Ile	Ala 340	Leu	Asp	Pro	Gln	Ser 345	Asp	Asn	Arg	Gly	Lys 350	Trp	Asp	
Ser	Leu	Leu 355	Lys	Val	Asn	Arg	Tyr 360	Trp	Leu	Leu	Ile	Gln 365	Gln	Gly	Asp	
Asn	Ala 370	Leu	Lys	Ala	Asn	Asn 375	Thr	Ala	Gln	Ala	Glu 380	Arg	Tyr	Tyr	Gln	
Gln 385	Ala	Arg	Asn	Ile	Asp 390	Asn	Thr	Asp	Ser	Tyr 395	Ala	Val	Leu	Gly	Leu 400	
Gly	Asp	Ala	Ala 405	Ala	Ala	Arg	Lys	Asp	Asn 410	Asp	Ala	Ala	Glu	Arg 415	Tyr	
Tyr	Arg	Gln	Ala 420	Leu	Arg	Met	Asp	Ser 425	Gly	Asn	Ser	Asn	Ala 430	Val	Arg	
Gly	Leu	Ala 435	Asn	Ile	Tyr	Arg	Ala 440	Gln	Ser	Pro	Glu	Lys 445	Ala	Thr	Gln	
Phe	Ile 450	Gln	Ser	Leu	Ser	Ala 455	Ser	Gln	Arg	Arg	Ser	Ile	Asp	Asp	Ile	
Glu 465	Arg	Ser	Leu	Thr	Asn 470	Glu	Gln	Leu	Ser	Ala 475	Gln	Ala	Glu	Gln	Leu 480	
Glu	Ser	Glu	Gly 485	Lys	Tyr	Ala	Gln	Ala 490	Ala	Glu	Ile	Gln	Arg	Arg	Arg	
Leu	Ala	Leu	Ser 500	Pro	Gly	Asp	Val	Trp 505	Ile	Thr	Tyr	Arg	Leu 510	Ser	Arg	
Asp	Leu 515	Tyr	Ser	Ala	Gly	Gln	Arg 520	Ser	Gln	Ala	Asp	Asn 525	Leu	Met	Arg	
Gln	Leu 530	Ala	Ser	Gln	Lys	Pro 535	Gly	Asp	Pro	Asp	Gln 540	Val	Tyr	Ala	Ser	

Gly Leu Tyr Leu Ser Gly Asn Asp Gln Asp Arg Ala Ala Leu Ala His
 545 550 555 560
 Leu Asn Thr Leu Pro Arg Asp Lys Trp Asn Gly Asn Ile Gln Ala Leu
 565 570 575
 Ala Asp Arg Leu Gln Ser Asn Gln Val Leu Glu Thr Ala Asn Arg Leu
 580 585 590
 Arg Asp Ser Gly Lys Glu Gln Glu Ala Glu Thr Leu Leu Arg Gln Gln
 595 600 605
 Pro Pro Ser Thr Arg Ile Asp Leu Thr Leu Ala Asp Trp Ala Glu Gln
 610 615 620
 Arg Gly Asp His Glu Ala Lys Thr Ala Tyr Asn Thr Ile Leu Gln
 625 630 635 640
 Arg Glu Pro Gln Asn Glu Asp Ala Ile Leu Gly Leu Thr Glu Val Ser
 645 650 655
 Leu Ala Gln Gly Asn Lys Asp Ala Ala Arg Ala Ala Leu Ala Lys Leu
 660 665 670
 Pro Ala Ala Gln Asn Gly Glu Pro Leu Ser Ile Asn Met Gln Arg Arg
 675 680 685
 Leu Ala Met Ala Gln Ala Gly Leu Gly Asp Pro Ala Ala Ala Glu Lys
 690 695 700
 Thr Phe Asn Ala Ile Leu Pro Gln Ala Lys Ser Gln Pro Pro Ser Met
 705 710 715 720
 Glu Ser Ala Leu Val Met Arg Asp Ala Ala Arg Phe Gln Ala Gln Asn
 725 730 735
 Gly Gln Pro Gln Gln Ala Leu Asp Thr Trp Lys Asp Ala Met Val Ser
 740 745 750
 Ser Gly Ile Thr Thr Thr Arg Pro Thr Asp Asn Asp Ser Phe Thr Arg
 755 760 765
 Leu Thr Arg Asn Asp Glu Lys Asp Asp Trp Leu Lys Arg Gly Val Arg
 770 775 780
 Ser Asp Ala Gly Asp Leu Tyr Arg Gln Gln Asp Leu Asn Val Thr Leu
 785 790 795 800
 Gln His Asp Tyr Trp Gly Ser Ser Gly Thr Gly Gly Tyr Ser Asp Leu
 805 810 815
 Lys Ala His Thr Thr Met Leu Gln Val Asp Ala Pro Leu Ser Asp Gly
 820 825 830
 Arg Met Phe Arg Ser Asp Leu Val Asn Met Asn Ala Gly Ser Phe
 835 840 845
 Asp Thr Asp Asn Gly Thr Tyr Asp Pro Thr Trp Gly Thr Cys Ala Glu
 850 855 860
 Thr Pro Cys His Gly Ser Thr Asn Gln Ser Ala Asn Gly Ala Ser Val
 865 870 875 880
 Ala Val Gly Trp Gln Asn Lys Thr Trp Ala Trp Asp Ile Gly Thr Thr
 885 890 895
 Pro Met Gly Phe Asp Val Val Asp Val Val Gly Ser Leu Ser Tyr Ser
 900 905 910
 Asn Asp Leu Gly Pro Ile Gly Tyr Thr Leu Asn Ala His Arg Arg Pro
 915 920 925
 Ile Ser Ser Ser Val Leu Ala Phe Ala Gly Gln Lys Asp Pro Asn Thr
 930 935 940
 Asp Thr Thr Trp Gly Gly Val Arg Ala Thr Gly Gly Gly Val Ser Met
 945 950 955 960
 Ser Tyr Asp Lys Gly Glu Ala Asn Gly Ile Trp Ser Ser Leu Ser Ala
 965 970 975
 Asp Ser Leu Thr Gly Lys Asn Val Glu Asp Asn Trp Arg Val Arg Trp
 980 985 990
 Met Thr Gly Tyr Tyr Tyr Lys Leu Ile Asn Gln Asn Asn Glu Arg Leu
 995 1000 1005
 Thr Val Gly Val Ser Asn Met Leu Trp His Tyr Asp Lys Asp Leu Ser
 1010 1015 1020
 Gly Tyr Ser Leu Gly Gln Gly Gly Tyr Tyr Ser Pro Gln Glu Tyr Val

1025 1030 1035 1040
 Ser Phe Ala Leu Pro Val Asn Trp Arg Lys Arg Thr Glu Asn Trp Ser
 1045 1050 1055
 Trp Glu Leu Gly Gly Ser Val Ser Trp Ser His Ser Lys Thr Lys Asp
 1060 1065 1070
 Val Met Arg Tyr Pro Leu Gln Gly Leu Ile Pro Asp Asn Glu Pro Gly
 1075 1080 1085
 Arg Tyr Thr Asp Lys Gly Val Met Glu Thr Gly Ser Ser Ser Gly
 1090 1095 1100
 Thr Gly Tyr Thr Ala Arg Ala Ile Val Glu Arg Arg Val Thr Ser Asn
 1105 1110 1115 1120
 Trp Phe Val Gly Leu Gly Val Asp Ile Gln Glu Ala Lys Asp Tyr Thr
 1125 1130 1135
 Pro Ser His Ala Leu Leu Tyr Val Arg Tyr Ser Ala Ala Gly Trp Gln
 1140 1145 1150
 Gly Asp Met Asp Leu Pro Pro Glu Pro Leu Val Pro Tyr Ala Asp Trp
 1155 1160 1165

<210> 7518
 <211> 700
 <212> PRT
 <213> Enterobacter cloacae

<400> 7518
 Val Cys Leu Lys Ser Ala Ala Ile Gly Tyr Thr Arg Thr His Gln Val
 1 5 10 15
 Tyr Thr Leu Val Arg Pro Ala Leu Arg Val Leu Trp Arg Val Ile Leu
 20 25 30
 Arg Val Ser Arg Ser Leu Thr Ile Lys Gln Met Ala Met Val Ser Ala
 35 40 45
 Val Thr Met Leu Phe Val Phe Ile Phe Cys Val Ile Leu Leu Phe His
 50 55 60
 Ser Val Gln Gln Asn Arg Tyr Asn Thr Ala Ser Gln Leu Gly Ser Ile
 65 70 75 80
 Ala Arg Ser Val Arg Glu Pro Leu Ser Ala Ser Ile Leu Lys Gly Asp
 85 90 95
 Ile Pro Glu Ala Glu Ser Ile Leu Lys Arg Ile Gln Pro Ala Gly Ile
 100 105 110
 Val Ser Arg Ala Asp Val Val Leu Pro Asn Gln Phe Gln Ala Leu Arg
 115 120 125
 Met Ser Phe Ile Pro Glu Arg Ser Val Pro Met Met Val Met Arg Leu
 130 135 140
 Phe Glu Leu Pro Val Gln Ile Ser Leu Pro Leu Tyr Ser Leu Glu Arg
 145 150 155 160
 Pro Ala Asn Pro Gln Pro Leu Ala Tyr Leu Val Leu Gln Ala Asp Ser
 165 170 175
 Tyr Arg Met Tyr Lys Phe Val Met Ser Trp Val Ala Thr Leu Val Thr
 180 185 190
 Thr Tyr Leu Leu Leu Thr Leu Met Leu Ser Val Ala Leu Thr Trp Cys
 195 200 205
 Ile Asn Arg Leu Ile Val His Pro Leu Arg Arg Ile Ala Arg Glu Leu
 210 215 220
 Asn Asp Leu Ser Pro Gln Glu His Met Gly His Gln Leu Pro Leu Pro
 225 230 235 240
 Arg Leu His His Asp Asp Glu Ile Gly Met Leu Val Arg Ser Tyr Asn
 245 250 255
 Ile Asn Gln Gln Arg Val Leu Arg Gln Gln Glu Glu Leu Ser Ser Asn
 260 265 270
 Ala Thr Arg Phe Pro Val Ser Asp Leu Pro Asn Lys Ala Phe Leu Met

```
<210> 7519
<211> 189
<212> PRT
<213> Enterobacter cloacae
```

Pro Tyr Lys Ala Cys Ser Phe Ser Phe Gln Gly His Pro Met Lys Thr

```

1           5           10           15
Ser Leu Phe Lys Ser Leu Tyr Phe Gln Val Leu Thr Ala Ile Ala Ile
20           25           30
Gly Ile Leu Leu Gly His Tyr Tyr Pro Glu Leu Gly Ala Gln Met Lys
35           40           45
Pro Leu Gly Asp Ala Phe Val Lys Leu Ile Lys Met Ile Ile Ala Pro
50           55           60
Val Ile Phe Cys Thr Val Val Thr Gly Ile Ala Gly Met Glu Ser Met
65           70           75           80
Lys Ala Val Gly Arg Thr Gly Ala Val Ala Leu Leu Tyr Phe Glu Ile
85           90           95
Val Ser Thr Ile Ala Leu Ile Ile Gly Leu Ile Ile Val Asn Val Val
100          105          110
Gln Pro Gly Ala Gly Met Asn Val Asp Pro Ala Thr Leu Asp Ala Lys
115          120          125
Ala Val Ala Val Tyr Ala Glu Gln Ala Lys Asp Gln Gly Ile Val Ala
130          135          140
Phe Leu Leu Asp Val Ile Pro Ser Ser Val Ile Gly Ala Phe Ala Ser
145          150          155          160
Gly Asn Ile Leu Gln Val Leu Leu Phe Ala Val Leu Phe Gly Phe Val
165          170          175
Leu His Gln Gln Gly Ala Glu Gly Ser Ala His Ala Arg
180          185

```

<210> 7520

<211> 392

<212> PRT

<213> Enterobacter cloacae

<400> 7520

```

Gly Thr Ala Arg His Gln Thr Ser Glu Glu Ala Ile Arg Lys Asp Gly
1           5           10           15
Leu Phe Ala Phe Leu His Leu Leu Pro Phe His Lys Gln Ile Thr Tyr
20           25           30
Pro Pro Ile Tyr Thr Val Asn Tyr Pro Gly Phe Cys Ile Arg Ile Ala
35           40           45
Ser Met Asn His Ser Leu Lys Pro Trp Asn Thr Phe Gly Ile Gln Arg
50           55           60
Asn Ala Asn Gln Ile Val Arg Ala Glu Ser Ala Gln Gln Leu Leu Asn
65           70           75           80
Ala Trp Gln Asn Ala Thr Gly Asn Gly Glu Pro Val Leu Ile Leu Gly
85           90           95
Glu Gly Ser Asn Val Leu Phe Leu Asp Asp Phe Ala Gly Thr Val Ile
100          105          110
Val Asn Arg Ile Met Gly Ile Glu Cys Lys Glu Ser Ala Asp Ser Trp
115          120          125
His Leu His Val Gly Ala Gly Glu Asn Trp His His Leu Val Gln Tyr
130          135          140
Thr Leu Glu Lys Gly Met Pro Gly Leu Glu Asn Leu Ala Leu Ile Pro
145          150          155          160
Gly Cys Ala Gly Ser Ser Pro Ile Gln Asn Ile Gly Ala Tyr Gly Ile
165          170          175
Glu Leu Lys His Val Cys Glu Tyr Val Asp Cys Ile Glu Leu Ala Thr
180          185          190
Gly Thr Ala Lys Arg Leu Thr Ala Glu Gln Cys Arg Phe Gly Tyr Arg
195          200          205
Asp Ser Ile Phe Lys His Asp Tyr Gln Asp Arg Phe Val Ile Val Ala
210          215          220
Val Gly Leu Arg Leu Ala Lys Ala Trp Lys Pro Val Leu Thr Tyr Gly
225          230          235          240
Asp Leu Thr Arg Leu Asp Pro Ala Thr Val Thr Pro Arg Glu Val Phe

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```
<210> 7521
<211> 261
<212> PRT
<213> Enterobacter cloacae
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[illegible]

<210> 7522

<211> 847

<212> PRT

<213> Enterobacter cloacae

<400> 7522

Phe	Ser	Gly	His	Leu	Leu	His	Trp	Phe	Pro	Gly	Ser	Cys	Arg	Ser	Phe
1				5				10						15	
Arg	Val	Asp	Leu	Ser	Glu	Met	Lys	Arg	Ser	Arg	Arg	Thr	Arg	Leu	Trp
			20					25					30		
Leu	Asn	Asn	Asp	Asp	Asn	Ala	Met	Lys	Thr	Lys	Leu	Ser	Trp	Leu	Cys
			35					40				45			
Ala	Val	Ala	Met	Gly	Met	Ser	Ala	Leu	Pro	Ala	Thr	Val	Ala	Asn	Ala
			50				55				60				
Ala	Pro	Asp	Asn	Ala	Ala	Thr	Thr	Pro	Ala	Pro	Thr	Val	Pro	Val	Val
65					70				75						80
Ala	Gln	Ala	Thr	Asp	Pro	Val	Val	Thr	Ala	Ala	Pro	Gly	Gln	Thr	Glu
				85					90					95	
Asn	Val	Val	Pro	Asn	Gln	Pro	Thr	Thr	Gly	Asn	Thr	Leu	Pro	Gly	Asp
			100					105					110		
Asn	Pro	Val	Val	Gly	Gln	Val	Met	Pro	Gly	Val	Pro	Gly	Ala	Ser	Ala
			115				120					125			
Pro	Val	Val	Ala	Glu	Asn	Thr	Pro	Ser	Arg	Asp	Val	Lys	Leu	Thr	Phe
			130				135				140				
Ala	Gln	Ile	Ala	Pro	Pro	Pro	Gly	Ser	Met	Val	Leu	Arg	Gly	Ile	Asn
145					150				155						160
Pro	Asn	Gly	Gly	Ile	Glu	Phe	Gly	Met	Arg	Ser	Asp	Glu	Val	Val	Ser
				165				170						175	
Lys	Ala	Met	Leu	Asn	Leu	Glu	Tyr	Thr	Pro	Ser	Pro	Ser	Leu	Leu	Pro
			180					185					190		
Val	Gln	Ser	Gln	Leu	Lys	Val	Tyr	Leu	Asn	Asp	Glu	Leu	Met	Asp	Val
			195				200					205			
Leu	Pro	Val	Thr	Lys	Glu	Gln	Leu	Gly	Lys	Lys	Thr	Leu	Ala	Gln	Val
			210				215				220				
Pro	Ile	Asn	Pro	Leu	Phe	Ile	Thr	Asp	Phe	Asn	Arg	Val	Arg	Leu	Glu
225					230				235						240
Phe	Val	Gly	His	Tyr	Arg	Asp	Val	Cys	Glu	Asn	Pro	Ala	Ser	Ser	Thr
				245				250						255	
Leu	Trp	Leu	Asp	Val	Gly	Arg	Asn	Ser	Ser	Leu	Gln	Met	Thr	Tyr	Gln
			260					265					270		
Pro	Leu	Ala	Leu	Lys	Asn	Asp	Leu	Ser	Ala	Phe	Pro	Val	Pro	Phe	Phe
			275				280					285			
Asp	Pro	Arg	Asp	Asn	Arg	Pro	Leu	Asn	Leu	Pro	Met	Val	Phe	Ala	Gly
			290			295					300				
Ser	Pro	Asp	Val	Thr	Glu	Gln	Leu	Ala	Ala	Ser	Ile	Val	Ala	Ser	Trp
					310					315					320
Phe	Gly	Ser	Arg	Ser	Gly	Trp	Arg	Gly	Gln	Ser	Phe	Pro	Val	Met	Tyr
				325					330					335	
Asp	Lys	Met	Pro	Asp	Lys	Asn	Ala	Ile	Val	Phe	Ala	Thr	Asn	Ala	Lys
				340				345					350		
Arg	Pro	Ala	Phe	Leu	Arg	Asp	His	Pro	Glu	Val	Lys	Ala	Pro	Thr	Ile
				355			360					365			
Glu	Met	Ile	Ser	His	Pro	Asp	Asn	Pro	Tyr	Val	Lys	Leu	Leu	Val	Ile
					375						380				
Phe	Gly	Arg	Asp	Asp	Lys	Asp	Leu	Val	Gln	Ala	Ala	Lys	Gly	Ile	Ala
385					390					395					400
Gln	Gly	Asn	Ile	Leu	Phe	Arg	Gly	Asn	Ser	Val	Val	Val	Asp	Glu	Val
				405				410						415	
Lys	Pro	Leu	Leu	Ala	Arg	Lys	Pro	Tyr	Asp	Ala	Pro	Asn	Trp	Val	Arg
				420				425					430		
Thr	Asp	Arg	Ala	Ile	Thr	Phe	Gly	Glu	Leu	Lys	Thr	Tyr	Glu	Glu	Gln


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<210> 7523
<211> 371
<212> PRT
<213> Enterobacter cloacae
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Ala Val Met Lys Ile Phe Arg Gly Cys Val Val Ala Ala Leu Met Leu
1 5 10 15
Ala Ala Ala Asn Leu His Ala Ala Cys Arg Trp Pro Ala Trp Glu Thr

```
<210> 7524
<211> 83
<212> PRT
<213> Enterobacter cloacae
```

Trp	Ala	Gly	Arg	Leu	Ala	Ala	Ser	Glu	Ser	Tyr	Asp	Phe	Thr	Gln	Arg
1				5					10					15	
Asp	Glu	Lys	Arg	Met	Gln	Asn	Asn	Glu	Pro	Ala	Thr	Pro	Val	Asp	Ser
			20					25					30		
Ser	Leu	Gly	Tyr	Thr	Phe	Gln	Asn	Asp	Phe	Leu	Ala	Leu	Thr	Gln	Ala
		35					40					45			
Phe	Ser	Leu	Pro	Glu	Ile	Asp	Tyr	Thr	Asp	Ile	Ser	Gln	Arg	Glu	Gln
	50					55				60					
Leu	Ala	Ala	Ala	Ile	Lys	Arg	Trp	Pro	Leu	Leu	Ala	Glu	Phe	Ala	Gln

80

<400>	7526															
Val	Arg	Cys	Met	Ser	Pro	Thr	Ile	Tyr	Asp	Ile	Ala	Arg	Val	Ala	Gly	
1				5					10					15		
Val	Ser	Lys	Ser	Thr	Val	Ser	Arg	Val	Leu	Asn	Lys	Gln	Thr	Asn	Ile	
			20					25					30			
Ser	Pro	Glu	Ala	Arg	Glu	Lys	Val	Leu	Lys	Ala	Ile	Glu	Glu	Leu	Asn	
			35				40					45				
Tyr	Gln	Pro	Asn	Lys	Leu	Ala	Arg	Ala	Leu	Thr	Ser	Ser	Gly	Phe	Asp	
	50					55					60					
Ala	Ile	Met	Val	Ile	Ser	Thr	Arg	Ser	Thr	Lys	Thr	Thr	Ala	Gly	Asn	
65				70						75					80	
Pro	Phe	Phe	Ser	Asp	Val	Leu	His	Ala	Ile	Thr	Ala	Lys	Ala	Glu	Glu	
				85					90					95		
Glu	Gly	Phe	Asp	Val	Ile	Leu	Gln	Thr	Ser	Lys	Ser	Ser	Glu	Asp	Asp	
			100					105					110			
Leu	Gln	Lys	Cys	Val	Gly	Lys	Ile	Lys	Gln	Lys	Met	Ile	Lys	Gly	Ile	
			115				120					125				
Ile	Met	Leu	Ser	Ser	Pro	Ala	Asn	Glu	Ser	Phe	Phe	Ala	Thr	Leu	Asp	
	130					135					140					
Glu	Tyr	Gly	Val	Pro	Val	Val	Val	Ile	Gly	Lys	Val	Glu	Gly	Asn	Tyr	
145				150						155					160	
Gln	Asn	Ile	Tyr	Ser	Val	Asp	Thr	Asp	Asn	Phe	His	Asp	Ser	Ala	Ile	
				165					170					175		
Leu	Thr	Asp	Ser	Phe	Ile	Lys	His	Gly	Arg	Thr	Lys	Ile	Ala	Cys	Leu	
			180					185					190			
His	Ala	Pro	Leu	Asp	Tyr	His	Val	Ser	Ile	Asp	Arg	Leu	Ala	Gly	Tyr	
		195					200					205				
Lys	Ser	Ser	Leu	Glu	Lys	His	Gly	Ile	Ala	Ile	Asn	Pro	Asp	Trp	Val	
	210					215					220					

Ile Asp Gly Gly Tyr Thr His Glu Ser Ala Leu Gln Ala Ala Cys Gln
 225 230 235 240
 Leu Leu Ser Ser Asp Asn Pro Pro Asp Ala Val Phe Ala Thr Asp Ser
 245 250 255
 Met Lys Leu Leu Ser Leu Tyr Arg Ala Ala Asp Glu Leu Asn Leu Thr
 260 265 270
 Ile Pro Glu Gln Val Ala Met Ala Gly Tyr Ser Asp Pro Met Leu Ser
 275 280 285
 Leu Ile Leu Thr Pro Ala Pro Gly Gly Phe Asp Ile Pro Thr Arg Lys
 290 295 300
 Leu Gly Glu Glu Ser Cys Asp Leu Leu Phe Arg Cys Ile Ala Gly Lys
 305 310 315 320
 Pro Ala Pro His Lys Val Leu Val Glu Thr His Phe Ser Asp Ala Ala
 325 330 335
 Ser Leu Arg
 340

<210> 7527

<211> 269

<212> PRT

<213> Enterobacter cloacae

<400> 7527

Cys Gln Ala Ile Phe His Thr His Gly Asn Tyr Leu Ile Lys Arg Gly
 1 5 10 15
 Phe Cys Thr Thr Leu Pro Glu Val Thr Leu Ser Ser Gly Phe Thr Met
 20 25 30
 Ala Thr Thr Arg Pro Arg Thr Glu Arg Gly Ala Phe Pro Gly Thr
 35 40 45
 Glu His Tyr Gly Arg Ser Phe Leu Gly Ala Pro Leu Ile Trp Phe Pro
 50 55 60
 Ala Pro Glu Ala Asp Arg Asn Ser Gly Leu Ile Ile Ala Gly Thr His
 65 70 75 80
 Gly Asp Glu Asn Ser Ser Val Val Thr Leu Ser Cys Ala Leu Arg Thr
 85 90 95
 Leu Ala Pro Asp Leu Arg Arg His His Val Ile Leu Thr Val Asn Pro
 100 105 110
 Asp Gly Cys Gln Leu Gly Leu Arg Ala Asn Ala Arg Gly Val Asp Leu
 115 120 125
 Asn Arg Asn Phe Pro Ala Ala Asn Trp Arg Ala Gly Glu Thr Val Tyr
 130 135 140
 Arg Trp Asn Ser Ser Ala Gln Glu Arg Asp Val Val Leu Leu Thr Gly
 145 150 155 160
 Asp Lys Pro Gly Ser Glu Pro Glu Thr Gln Ala Leu Cys Gln Leu Ile
 165 170 175
 His Lys Ile His Pro Ala Trp Val Ile Ser Phe His Asp Pro Leu Ala
 180 185 190
 Cys Ile Glu Asp Pro Arg His Thr Ala Leu Gly Gln Trp Leu Ala Asp
 195 200 205
 Ala Phe Ala Leu Pro Leu Val Ser Ser Val Gly Tyr Glu Thr Pro Gly
 210 215 220
 Ser Phe Gly Ser Trp Cys Ala Asp Leu Ser Leu His Cys Ile Thr Ala
 225 230 235 240
 Glu Phe Pro Pro Ile Ser Ser Asp Glu Ala Ser Glu Lys Tyr Leu Arg
 245 250 255
 Ala Met Thr Asp Leu Leu Arg Trp Gln Pro Gln Arg
 260 265

<210> 7528

<211> 177

<212> PRT

<213> Enterobacter cloacae

<400> 7528

```

Leu Phe Val Asn Arg Lys Ile Ser Met Ser Gln Leu Val His Phe Gln
1          5          10          15
Gly Asn Pro Val Ala Val Ala Gly Ser Ile Pro Gln Ser Gly Ser Lys
          20          25          30
Ala Gln Pro Phe Thr Leu Val Ala Lys Asp Leu Ser Asp Val Thr Leu
          35          40          45
Ser Gln Phe Ala Gly Lys Arg Lys Val Leu Asn Ile Phe Pro Ser Ile
          50          55          60
Asp Thr Gly Val Cys Ala Ala Ser Val Arg Lys Phe Asn Gln Leu Ala
65          70          75          80
Thr Glu Met Asp Asn Thr Val Val Leu Cys Ile Ser Ala Asp Leu Pro
          85          90          95
Phe Ala Gln Ser Arg Phe Cys Gly Ala Glu Gly Leu Ser Asn Val Ile
          100         105         110
Thr Leu Ser Thr Leu Arg Ser Pro Asp Phe Leu Glu Lys Tyr Gly Val
          115         120         125
Ala Ile Ser Glu Gly Ala Leu Lys Gly Leu Ala Ala Arg Ala Val Leu
          130         135         140
Val Ile Asp Glu Asn Asp Asn Val Val Phe Ser Glu Leu Val Asn Glu
145          150         155         160
Ile Thr Thr Glu Pro Asp Tyr Thr Ala Ala Leu Glu Ala Leu Lys Ala
          165         170         175

```

<210> 7529

<211> 279

<212> PRT

<213> Enterobacter cloacae

<400> 7529

```

Lys Leu Ile Arg Ala Asn Val Leu Pro Ala Ala Ser Cys Glu Asn Gly
1          5          10          15
Asp Ile Ile Gly Ser Gly Ala Asp Val Thr Glu Tyr Gln Ile Gly Asp
          20          25          30
Ser Val Cys Cys Tyr Gly Pro Leu Gln Glu Thr Val Ile Val Asn Ala
          35          40          45
Val Asn Asn Tyr Lys Leu Arg Lys Met Pro Gln Gly Ala Ser Trp Lys
          50          55          60
Asn Ala Val Cys Tyr Asp Pro Ala Gln Phe Ala Met Ser Gly Val Arg
65          70          75          80
Asp Ala Asn Val Arg Val Gly Asp Phe Val Val Val Val Gly Leu Gly
          85          90          95
Ala Ile Gly Gln Ile Ala Ile Gln Leu Ala Lys Lys Ala Gly Ala Ser
          100         105         110
Val Val Ile Gly Val Asp Pro Ile Glu His Arg Cys Glu Ile Ala Arg
          115         120         125
Arg His Gly Ala Asp His Cys Leu Asn Pro Ile Gly Thr Asp Val Gly
          130         135         140
Leu Glu Ile Lys Lys Leu Thr Gly Lys Gln Gly Ala Asp Val Ile Ile
145          150         155         160
Glu Thr Ser Gly Phe Ala Asp Ala Leu Gln Ser Ala Leu Arg Gly Leu
          165         170         175
Ala Tyr Gly Gly Thr Ile Ser Tyr Val Ala Phe Ala Lys Pro Phe Ala
          180         185         190
Ala Gly Phe Asn Leu Gly Arg Glu Ala His Phe Asn Asn Ala Lys Ile
          195         200         205
Val Phe Ser Arg Ala Cys Ser Glu Pro Asn Pro Asp Tyr Pro Arg Trp

```

210	215	220
Ser Arg Lys Arg Ile Glu Thr Cys Trp Glu Leu Leu Met Asn Gly		
225	230	235
Tyr Leu Asn Cys Glu Asp Leu Ile Asp Pro Val Val Thr Phe Thr Thr		240
	245	250
Ser Pro Glu Ser Tyr Met Lys Tyr Val Asp Gln His Pro Glu Leu Ser		255
	260	265
Ile Lys Met Gly Val Thr Phe		270
275		

<210> 7530

<211> 359

<212> PRT

<213> Enterobacter cloacae

<400> 7530

Met Leu Arg Met Thr Ser Val Met Ser Ala Ser Thr Pro Leu Pro Leu	
1	5
Arg Val Ala Ile Gly Ala Gly Gln Val Ala Asp Lys Val His Ala	10
	20
Ser Tyr Tyr Ala Thr Arg Ser Asp Val Gln Met Val Ala Val Met Asp	25
	30
Ser Arg Leu Glu Gln Ala Gln Ala Phe Ala Glu Arg Tyr Ala Ile Pro	35
	40
Ser Ala Trp Gln Asp Ala His Glu Met Leu Gln Glu Val Lys Pro Asp	45
	50
Val Val Ser Val Cys Ser Pro Asn Arg Phe His Phe Glu His Val Met	55
	60
Ala Ala Leu Glu Ala Gly Cys His Val Met Cys Glu Lys Pro Pro Ala	65
	70
Met Thr Pro His Gln Ala Asp Glu Met Arg Leu Ala Ala Arg Lys Ala	75
	80
Gly Lys Val Leu Ala Tyr Asp Phe His His Arg Phe Ala Leu Asp Thr	85
	90
Gln His Leu Arg Asp Ala Val Met Asn Gly Thr Leu Gly Glu Ile Tyr	95
	100
Phe Thr Ser Ala Gln Ala Leu Arg Arg Cys Gly Val Pro Gly Trp Gly	105
	110
Val Phe Thr Asn Lys Ser Leu Gln Gly Gly Gly Pro Leu Ile Asp Ile	115
	120
Gly Ile His Met Leu Asp Ala Ala Met Tyr Val Leu Gly Phe Pro Pro	125
	130
Val Lys Arg Val Thr Ala His Ser Phe Gln Arg Leu Gly Asn Arg Lys	135
	140
His Thr Gly Gln Phe Gly Glu Trp Asp Pro Ala Gln Phe Thr Val Glu	145
	150
Asp Ala Leu Phe Gly Thr Ile Glu Phe Cys Asn Gly Gly Ile Leu Arg	155
	160
Leu Asp Thr Ser Phe Ala Leu Asn Ile Arg Glu Gln Ser Ile Met Asn	165
	170
Val Ser Phe Cys Gly Glu Lys Ala Gly Ala Thr Leu Phe Pro Ala His	175
	180
Ile Tyr Asn Asp Glu Ala Gly Val Leu Gln Thr Leu Thr Gln Arg Glu	185
	190
Glu Ala Asp Asp Arg Arg His Leu Arg Ser Met Asp Ala Phe Val Arg	195
	200
His Val Leu Gly Glu Pro Val Met Ile Ala Asp Ala Glu Gln Gly Leu	205
	210
Val Ile Gln Gln Leu Val Ala Ala Leu Tyr Glu Ala Ala Glu Thr Gly	215
	220
Glu Ser Val Thr Leu Cys	225
	230
	235
	240
	245
	250
	255
	260
	265
	270
	275
	280
	285
	290
	295
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	305
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	315
	320
	325
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	340
	345
	350

355

<210> 7531
 <211> 255
 <212> PRT
 <213> Enterobacter cloacae

<400> 7531

```

Arg Cys Gly Val Lys Arg Cys Met Tyr Gln Gly Gly Arg Ser Val Asn
1      5      10      15
Val Arg Thr Phe Leu Tyr Leu Leu Met Gly Pro Leu Pro Arg Arg Gly
20      25      30
Ala Met Thr Leu Asn Ala Val Val Phe Asp Leu Asp Gly Val Ile Thr
35      40      45
Asp Thr Ala His Leu His Phe Leu Ala Trp Arg Ala Val Ala Glu Glu
50      55      60
Ile Gly Ile Thr Phe Asp Glu Val Phe Asn Glu Gln Leu Lys Gly Ile
65      70      75      80
Ser Arg Met Asp Ser Leu Gln Arg Ile Leu Ile His Gly Gly Lys Glu
85      90      95
Gly Met Phe Ser Asp Glu Gln Arg Leu Ala Leu Ala Arg Lys Lys Asn
100     105     110
Ala Leu Tyr Val Gln Ser Leu Ser Ser Leu Thr Gln Asp Ser Leu Leu
115     120     125
Pro Gly Ile Arg Asp Val Leu Ala Asp Ile Arg Ala Ala Lys Val Lys
130     135     140
Ile Gly Leu Ala Ser Val Ser Leu Asn Ala Pro Gly Ile Leu His Ala
145     150     155     160
Leu Gly Ile His Gln Ala Phe Asp Phe Cys Ala Asp Ala Ser Arg Ile
165     170     175
Ser Arg Ser Lys Pro Asp Pro Glu Ile Phe Leu Ala Ala Cys Lys Gly
180     185     190
Leu Asn Val Arg Pro Glu Glu Ala Ile Gly Ile Glu Asp Ala Ala Ala
195     200     205
Gly Val Asp Ala Ile Asn Ala Ala Gly Met Leu Ser Val Gly Ile Gly
210     215     220
Pro Gly Leu Asn His Ala Gly Leu Gln Leu His Ser Thr Gln Glu Leu
225     230     235     240
Thr Trp Glu Arg Leu Thr Ala Phe Trp Ala Ser Arg Ala Tyr
245     250     255

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<210> 7532
 <211> 309
 <212> PRT
 <213> Enterobacter cloacae

<400> 7532

```

Arg Asn Ile Leu Met Ser Thr Leu Leu Arg Ser Ala Ala Leu Val Leu
1      5      10      15
Cys Ala Gly Val Ser Cys Ala Gln Ala Thr Glu Ser Ala Lys Gln Trp
20      25      30
Glu Phe Asn Ile Gly Ala Met Tyr Glu Ile Glu Asn Val Glu Gly Gln
35      40      45
Ala Asp Asp Lys Asp Gly Leu Tyr Glu Pro Ser Val Trp Phe Asn Ala
50      55      60
Thr Trp Asp Ala Trp Thr Ile Ser Leu Ala Met Tyr Gln Glu Gly Pro
65      70      75      80
Val Asp Tyr Ser Ser Met Thr Arg Gly Thr Tyr Phe Asp Arg Pro Glu
85      90      95
Val Glu Leu Arg Tyr Arg Ile Ile Gly Thr Asp Asp Phe Thr Leu Gly
100     105     110

```

Leu Thr Gly Gly Phe Arg Asn Tyr Ser Tyr His Phe Lys Asp Glu Asp
 115 120 125
 Gly Ala Lys Ala Gly Ser Ala Asn Met Gln Arg Tyr Lys Ile Gln Pro
 130 135 140
 Asp Trp Asp Val Lys Leu Thr Asp Asp Trp Arg Phe Gly Gly Trp Phe
 145 150 155 160
 Ala Met Tyr Gln Phe Ala Asn Asp Leu Ala Lys Thr Gly Tyr Ser Asp
 165 170 175
 Ser Arg Val Glu Thr Glu Thr Gly Phe Thr Trp Thr Ile Asn Glu Thr
 180 185 190
 Val Ser Ala Lys Val Asn Tyr Tyr Leu Glu Arg Gly Phe Asn Met Asp
 195 200 205
 Ser Ser Arg Asn Asn Gly Glu Phe Ser Thr Gln Glu Ile Arg Ala Tyr
 210 215 220
 Leu Pro Ile Ser Leu Gly Gln Thr Thr Leu Thr Pro Tyr Thr Arg Leu
 225 230 235 240
 Gly Leu Asp Arg Trp Ser Asn Trp Asp Trp Gln Asp Asp Pro Glu Arg
 245 250 255
 Glu Gly His Asp Phe Asn Arg Leu Gly Met Leu Tyr Ala Tyr Asp Phe
 260 265 270
 Asn Asn Gly Leu Ser Met Thr Leu Glu Tyr Ala Tyr Glu Trp Glu Asn
 275 280 285
 His Asp Glu Gly Glu Ser Asp Arg Phe His Tyr Ala Gly Ile Gly Val
 290 295 300
 Asn Tyr Ala Phe
 305

<210> 7533

<211> 344

<212> PRT

<213> *Enterobacter cloacae*

<400> 7533

Cys Met Ser Ser Ala Val Ser Thr Ala Asn Gln Phe Ser Ala Phe Pro
 1 5 10 15
 Ala Cys Lys Glu Ser Val Met Arg Ser Val Lys Val Tyr Glu Glu Ala
 20 25 30
 Trp Pro Leu His Thr Pro Phe Val Ile Ser Arg Gly Ser Arg Asn Glu
 35 40 45
 Ala Cys Val Val Val Val Glu Cys Glu Glu Asp Gly Val Lys Gly Val
 50 55 60
 Gly Glu Cys Thr Pro Tyr Pro Arg Tyr Gly Glu Ser Leu Ala Ser Val
 65 70 75 80
 Met Ala Gln Ile Met Thr Val Val Pro Glu Leu Gln Ala Gly Leu Thr
 85 90 95
 Arg Glu Ala Leu Gln Leu Arg Leu Pro Ala Gly Ala Ala Arg Asn Ala
 100 105 110
 Ile Asp Cys Ala Leu Trp Ser Leu Glu Ala Ala Lys Arg Gln Lys Pro
 115 120 125
 Leu Pro Ala Leu Leu Asp Val Thr Leu Pro Gln Ser Ile Val Thr Ala
 130 135 140
 Gln Thr Val Val Ile Gly Glu Pro Glu Gln Met Ala Ala Ser Ala Gln
 145 150 155 160
 Ala Leu Tyr Ala Thr Gly Ala Thr Leu Leu Lys Val Lys Leu Asp Asp
 165 170 175
 Arg Leu Ile Ser Glu Arg Met Val Ala Ile Arg Ala Ala Val Pro Asp
 180 185 190
 Ala Thr Leu Ile Val Asp Ala Asn Glu Ser Trp His Ser Glu Gly Leu
 195 200 205
 Ala Ala Arg Cys Gln Leu Leu Ala Asp Leu Gly Val Ala Met Leu Glu
 210 215 220

Gln Pro Leu Pro Ala Glu Asp Asp Ala Ala Leu Ala Asn Phe Ile His
 225 230 235 240
 Pro Leu Pro Val Cys Ala Asp Glu Ser Cys His Thr Arg Glu Ser Leu
 245 250 255
 Ser Ala Leu Lys Gly Arg Tyr Glu Met Val Asn Ile Lys Leu Asp Lys
 260 265 270
 Thr Gly Gly Leu Thr Glu Ala Leu Ala Leu Ala Gln Asp Ala Gln Ala
 275 280 285
 Gln Gly Phe Ala Leu Met Leu Gly Cys Met Leu Cys Thr Ser Arg Ala
 290 295 300
 Ile Gly Ala Ala Leu Pro Leu Val Asn Ser Val Arg Phe Ala Asp Leu
 305 310 315 320
 Asp Gly Pro Thr Trp Leu Ala Val Asp Val Ser Pro Ala Leu Asn Phe
 325 330 335
 Thr Ser Gly Val Leu His Leu
 340

<210> 7534

<211> 286

<212> PRT

<213> Enterobacter cloacae

<400> 7534

Ser Met Ser Ile Ser Thr Arg Asn Ser Val Ser Lys Trp Ala Ser Leu
 1 5 10 15
 Phe Lys Leu Arg Thr Ala Ile Met Lys Ile Ala Thr Gln Asn Gln Ala
 20 25 30
 Phe Phe Pro Thr Ala Ile Met Glu Lys Phe Glu Tyr Ile Lys Ala Met
 35 40 45
 Gly Phe Asp Gly Tyr Glu Ile Asp Gly Arg Leu Leu Val Glu Asn Leu
 50 55 60
 Asp Glu Val Lys Ala Ala Ile Lys Ala Thr Gly Leu Pro Val Thr Thr
 65 70 75 80
 Ala Cys Gly Gly Tyr Asp Gly Trp Ile Gly Asp Phe Ile Glu Glu Arg
 85 90 95
 Arg Leu Asn Gly Leu Gln Gln Ile Glu Arg Ile Leu Glu Ala Leu Ala
 100 105 110
 Glu Val Gly Gly Lys Gly Ile Ile Val Pro Ala Ala Trp Gly Met Phe
 115 120 125
 Thr Phe Arg Leu Pro Pro Met Thr Ser Pro Arg Ser Leu Asp Gly Asp
 130 135 140
 Arg Lys Ala Val Ser Ala Ser Leu Arg Trp Leu Asp Glu Val Ala Ala
 145 150 155 160
 Arg Thr Gly Thr Thr Val Tyr Leu Glu Pro Leu Asn Arg Tyr Gln Asp
 165 170 175
 His Met Ile Asn Thr Leu Ala Asp Ala Arg Arg Tyr Ile Glu Glu Asn
 180 185 190
 Gly Leu Lys His Val Gln Ile Ile Gly Asp Phe Tyr His Met Asn Ile
 195 200 205
 Glu Glu Asp Ser Leu Thr Glu Ala Leu His Gln Asn Arg Asp Leu Leu
 210 215 220
 Gly His Val His Ile Ala Asp Asn His Arg Tyr Gln Pro Gly Ser Gly
 225 230 235 240
 Ser Leu Asp Phe Ala Ser Leu Phe Asp Gln Leu Arg Ala Asp Asn Tyr
 245 250 255
 Gln Gly Tyr Val Tyr Glu Cys Arg Val Arg Ala Asp Asp Pro Ala
 260 265 270
 Gln Ala Tyr Lys Asp Ser Leu Thr Tyr Leu Arg Glu Cys
 275 280 285

<210> 7535

<211> 375

<212> PRT

<213> Enterobacter cloacae

<400> 7535

```

Arg Arg Ser Gly His Pro Gly Arg Ile Asp Lys Glu Leu Ile Met Ala
1      5      10      15
Gln Leu Ser Leu Lys His Ile Gln Lys Ile Tyr Asp Asn Gln Val His
20      25      30
Val Val Lys Asp Phe Asn Leu Glu Ile Glu Asp Lys Glu Phe Ile Val
35      40      45
Phe Val Gly Pro Ser Gly Cys Gly Lys Ser Thr Thr Leu Arg Met Ile
50      55      60
Ala Gly Leu Glu Glu Ile Ser Ala Gly Glu Leu Ile Ile Asp Gly Val
65      70      75      80
Cys Met Asn Asp Val Pro Ala Lys Ser Arg Asp Ile Ala Met Val Phe
85      90      95
Gln Asn Tyr Ala Leu Tyr Pro His Met Thr Val Tyr Asp Asn Met Ala
100     105     110
Phe Gly Leu Lys Met Gln Lys Ile Ala Pro Ser Val Ile Glu Glu Arg
115     120     125
Val Thr Trp Ala Ala Gln Ile Leu Gly Leu Arg Asp Tyr Leu Gln Arg
130     135     140
Lys Pro Gly Ala Leu Ser Gly Gly Gln Arg Gln Arg Val Ala Leu Gly
145     150     155     160
Arg Ala Ile Val Arg Glu Ala Gly Val Phe Leu Met Asp Glu Pro Leu
165     170     175
Ser Asn Leu Asp Ala Lys Leu Arg Val Gln Met Arg Ala Glu Ile Ser
180     185     190
Lys Leu His Gln Lys Leu Asn Thr Thr Met Ile Tyr Val Thr His Asp
195     200     205
Gln Thr Glu Ala Met Thr Met Ala Thr Arg Ile Val Ile Leu Lys Asp
210     215     220
Gly Ile Ile Gln Gln Val Gly Ala Pro Lys Gln Val Tyr Asn Glu Pro
225     230     235     240
Ala Asn Met Phe Val Ala Gly Phe Ile Gly Ser Pro Ala Met Asn Phe
245     250     255
Ile Arg Gly Ala Ile Asp Asp Arg Tyr Phe Val Thr Glu Thr Leu Arg
260     265     270
Leu Glu Ile Pro Glu Asp Lys Leu Ala Val Leu Asn Ala Gln Gly Tyr
275     280     285
Gln Arg Lys Ala Val Val Phe Gly Ile Arg Pro Glu Asp Ile Leu Thr
290     295     300
Val Gln Arg Ser Gly Glu Asn Ile Thr Ala Lys Ile Ser Val Ala Glu
305     310     315     320
Leu Thr Gly Ala Glu Phe Met Leu Tyr Ala Thr Val Gly Gly His Glu
325     330     335
Leu Val Val Arg Ala Gly Ala Ala Asp Asp Tyr Val Ala Gly Asp Asn
340     345     350
Ile Gly Ile Gln Phe Asp Met Asn Lys Cys His Phe Phe Asp Ala Asp
355     360     365
Thr Glu Thr Ala Ile Arg
370      375

```

<210> 7536

<211> 353

<212> PRT

<213> Enterobacter cloacae

<400> 7536

```

Ile Ala Met Thr Glu Pro Leu Lys Pro Arg Ile Asp Phe Thr Gly Gln

```

```

1          5          10          15
Leu Glu Gln Thr Pro His Glu Ala Phe Lys Thr Ala Gln Thr Phe Ser
20          25          30
Gly Pro Gln Ala Asp Asn Phe Ala Pro Val Leu Ala Asp Glu Pro Met
35          40          45
Val Glu Glu Gly Gln Ala Glu Ala Val Val Asp Ala Ala Leu Arg Pro
50          55          60
Lys Arg Ser Leu Trp Arg Lys Met Val Thr Ala Gly Leu Ala Leu Phe
65          70          75
Gly Val Ser Val Ile Gly Gln Gly Val Gln Trp Gly Val Asn Ala Trp
85          90          95
Gln Thr Gln Asp Trp Val Ala Leu Gly Gly Cys Ala Ala Gly Ala Leu
100         105         110
Ile Val Gly Ala Gly Val Gly Ser Val Val Ser Glu Trp Arg Arg Leu
115         120         125
Trp Arg Leu Arg Gln Arg Ala His Glu Arg Asp Glu Ala Arg Asp Leu
130         135         140
Leu His Ser His Gly Thr Gly Lys Gly Arg Ala Phe Cys Glu Lys Leu
145         150         155
Ala Ala Gln Ala Gly Ile Asp His Ser His Pro Ala Leu Gln Arg Trp
165         170         175
Tyr Ala Ala Ile His Glu Thr Gln Asn Asp Gln Glu Val Val Thr Leu
180         185         190
Tyr Ala His Ile Val Gln Pro Val Leu Asp Ala Gln Ala Arg Arg Glu
195         200         205
Ile Ser Arg Ser Ala Ala Glu Ser Thr Leu Met Ile Ala Val Ser Pro
210         215         220
Leu Ala Met Val Asp Met Ala Phe Ile Ala Trp Arg Asn Leu Arg Leu
225         230         235
Ile Asn Arg Ile Ala Arg Leu Tyr Gly Ile Glu Leu Gly Tyr Tyr Ser
245         250         255
Arg Leu Arg Leu Phe Lys Leu Val Leu Leu Asn Ile Ala Phe Ala Gly
260         265         270
Ala Ser Glu Leu Val Arg Glu Val Gly Met Asp Trp Met Ser Gln Asp
275         280         285
Leu Ala Ala Arg Leu Ser Ala Arg Ala Ala Gln Gly Ile Gly Ala Gly
290         295         300
Leu Leu Thr Ala Arg Leu Gly Ile Lys Ala Met Glu Val Cys Arg Pro
305         310         315
Leu Pro Trp Ile Asp Gly Asp Lys Pro Arg Leu Gly Asp Phe Arg Arg
325         330         335
Glu Leu Ile Gly Gln Leu Lys Glu Thr Leu Asn Lys Lys Pro Ala Gln
340         345         350

```

<210> 7537

<211> 546

<212> PRT

<213> Enterobacter cloacae

<400> 7537

```

Ser Cys Gly Leu Ser Ile Phe Val Asp Ser His Leu Pro Glu His Arg
1          5          10          15
Asp Leu Thr Tyr His Phe Thr Val Ile Gly Leu Asn Gly Glu Phe Pro
20          25          30
Met Arg Leu Glu Val Phe Cys Glu Asp Arg Leu Gly Leu Thr Arg Glu
35          40          45
Leu Leu Asp Leu Leu Val Leu Arg Ser Ile Asp Leu Arg Gly Ile Glu
50          55          60
Ile Asp Pro Val Gly Arg Ile Tyr Leu Asn Phe Ala Glu Ile Glu Phe

```

65					70				75				80			
Asn	Thr	Phe	Ser	Ser 85	Leu	Met	Ala	Glu	Ile 90	Arg	Arg	Ile	Ala	Gly 95	Val	
Thr	Asp	Val	Arg 100	Thr	Ile	Pro	Trp	Met 105	Pro	Ser	Glu	Arg	Glu 110	His	Leu	
Ala	Leu	Ser 115	Ala	Leu	Leu	Glu	Ala 120	Met	Pro	Glu	Pro	Phe 125	Leu	Ser	Leu	
Asp	Leu 130	Lys	Asn	Lys	Val	Glu 135	Arg	Val	Asn	Gln 140	Ala	Ser	Cys	Gln	Leu	
Phe 145	Ala	Gln	Thr	Gln	Glu 150	Lys	Leu	Ile	Gly	His 155	His	Ala	Thr	Gln	Leu	
Ile	Thr	Gly	Phe 165	Asn	Phe	Gln	Arg	Trp 170	Leu	Asp	Ser	Asn	Pro	Gln	Asn	
Thr	His	Ser 180	Glu	His	Val	Val	Ile	Asn 185	Gly	Gln	Asn	Phe	Leu	Met	Glu	
Ile	Thr	Pro 195	Val	Tyr	Leu	Lys	Gly 200	Glu	Asn	Ala	Ala	Arg 205	Val	Leu	Thr	
Gly	Ala 210	Val	Ile	Met	Leu	Arg 215	Ser	Thr	Val	Arg 220	Met	Gly	Arg	Gln	Leu	
Gln 225	Asn	Leu	Ser	Ser 230	Gln	Asp	Val	Gly	Ala	Phe 235	Ser	Gln	Ile	Ile	Ala	
Val	Ser	Pro	Lys 245	Met	Arg	His	Val	Ile	Asp 250	Gln	Ala	Arg	Lys	Leu	Ala	
Asn	Leu	Thr 260	Ala	Pro	Leu	Leu	Ile	Thr 265	Gly	Asp	Thr	Gly	Thr 270	Gly	Lys	
Asp	Leu 275	Leu	Ala	His	Ala	Val	His 280	Met	Ala	Ser	Pro	Arg 285	Ala	Ala	Lys	
Pro	Tyr 290	Leu	Ala	Leu	Asn	Cys 295	Ala	Ser	Ile	Pro	Glu	Asp	Ala	Val	Glu	
Ser 305	Glu	Leu	Phe	Gly 310	His	Ala	Pro	Glu	Gly	Lys 315	Lys	Gly	Phe	Phe	Glu	
Gln	Ala	Asn	Gly 325	Gly	Ser	Val	Leu	Leu	Asp 330	Glu	Ile	Gly	Glu	Met	Ser	
Pro	Arg	Met 340	Gln	Ala	Lys	Leu	Leu	Arg 345	Phe	Leu	Asn	Asp	Gly 350	Thr	Phe	
Arg	Arg	Val 355	Gly	Glu	Asp	His	Glu 360	Val	His	Val	Asp	Val	Arg	Val	Ile	
Cys	Ala 370	Thr	Gln	Lys	Asn	Leu 375	Val	Glu	Leu	Val	Gln	Lys	Gly	Val	Phe	
Arg 385	Glu	Asp	Leu	Tyr 390	Tyr	Arg	Leu	Asn	Val	Leu 395	Thr	Leu	Asn	Ile	Pro	
Pro	Leu	Arg	Asp 405	Cys	Pro	Gln	Asp	Ile	Met 410	Pro	Leu	Thr	Glu	Leu	Phe	
Val	Ala	Arg 420	Phe	Ala	Asp	Glu	Gln	Gly 425	Val	Pro	Arg	Pro	Lys	Leu	Ser	
Ala	Asp	Leu 435	Gly	Thr	Val	Leu	Thr 440	Arg	Tyr	Gly	Trp	Pro	Gly	Asn	Ile	
Arg	Gln 450	Leu	Lys	Asn	Ala	Val 455	Tyr	Arg	Ala	Leu	Thr	Gln	Leu	Glu	Gly	
Tyr 465	Glu	Leu	Arg	Pro 470	Gln	Asp	Ile	Leu	Leu	Pro 475	Asp	Tyr	Asp	Ala	Gly	
Thr	Val	Ser	Val 485	Gly	Glu	Glu	Ala	Met	Glu 490	Gly	Ser	Leu	Asp	Asp	Ile	
Thr	Ser	Arg 500	Phe	Glu	Arg	Ser	Val	Leu 505	Thr	Gln	Leu	Tyr	Arg	Ser	Tyr	
Pro	Ser	Thr 515	Arg	Lys	Leu	Ala	Lys 520	Arg	Leu	Gly	Val	Ser	His	Thr	Ala	
Ile	Ala 530	Asn	Lys	Leu	Arg	Glu 535	Tyr	Gly	Leu	Asn	Gln 540	Lys	Lys	Gly	Asp	
Glu 545																

<210> 7538

<211> 770

<212> PRT

<213> Enterobacter cloacae

<400> 7538

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Ser Arg Gly Asn Arg Gly Lys Arg Asp Val Met Leu Asn Gln Ser Val
1      5      10      15
Leu Thr Asp Pro Ser Phe Cys Pro His Ser Leu Asn Lys Tyr Ala Ser
20      25      30
Ile Met Ala Cys Gly Asn Gly Tyr Met Gly Ile Arg Ala Thr His Glu
35      40      45
Glu Asp Tyr Thr Gln Gln Thr Arg Gly Met Tyr Leu Ala Gly Leu Tyr
50      55      60
His Arg Ala Gly Arg Asn Glu Thr Thr Glu Leu Ile Asn Leu Pro Asp
65      70      75      80
Val Thr Gly Val Glu Val Glu Leu Asp Gly Val Asn Phe Thr Leu Leu
85      90      95
Ser Gly Glu Ile Leu Glu Trp Gln Arg Glu Leu Ala Phe Ala Asn Gly
100     105     110
Glu Leu His Arg Asn Val Val Trp Arg Ser Pro Asp Gly Lys Arg Tyr
115     120     125
Arg Leu Glu Ser Arg Arg Phe Val Ser Leu Asp Gln Leu Pro Leu Val
130     135     140
Ala Met Arg Leu Ser Ile Thr Pro Leu Asp Gly Ala Ala Gln Ala Val
145     150     155     160
Leu Lys Thr Gly Ile Asp Ala Thr Gln Thr Asn Ser Gly Arg Gln His
165     170     175
Leu Asp Glu Ile Ser Val Arg Val Phe Asp Gln His Tyr Met Gln Gly
180     185     190
Val Tyr Glu Thr Gln Asp Arg Ala Ser Glu Val Val Val Ser Ala Phe
195     200     205
Cys Gln Leu Ser Ala Gln Ser Asp Ser Cys Phe Thr Ala Lys Asn Arg
210     215     220
Arg Leu Ser Val His His Ser Leu Thr Ile Ser Gln Gly Asp Thr Val
225     230     235     240
Thr Leu Glu Lys Ile Val Trp Leu Thr His Arg Ser Asp Lys Ala Leu
245     250     255
Ser Gln Glu Ser Phe Ala Arg Asn Ala Leu Ala Asp Leu Lys Val Cys
260     265     270
Ala Ala Arg Gly Tyr Asp Ala Leu Leu Glu Ser Ser Ala Tyr Ala Trp
275     280     285
Glu Ala Val Trp Arg Asp Ala Arg Val Glu Val Thr Cys Ala Glu Gln
290     295     300
Gln Asp Gln Leu Ala Leu Asp Tyr Ala Val Trp His Leu Thr Thr Met
305     310     315     320
Thr Pro Ala His Ser Glu Arg Ser Ser Ile Ala Ala Lys Gly Leu Thr
325     330     335
Gly Glu Gly Tyr Lys Gly His Val Phe Trp Asp Thr Glu Ile Phe Leu
340     345     350
Leu Pro Phe His Leu Phe Thr Arg Pro Gln Ile Ala Arg Ser Leu Leu
355     360     365
Arg Tyr Arg Trp Leu Asn Leu Ser Gly Ala Arg Glu Lys Ala Arg Arg
370     375     380
Asn Gly Trp Pro Gly Ala Leu Phe Pro Trp Glu Ser Ala Ala Ser Gly
385     390     395     400
Glu Glu Glu Thr Pro Glu Phe Ala Ala Ile Asn Ile Arg Thr Gly Val
405     410     415
Arg Gln Lys Val Ala Ser Ala Leu Ala Glu His His Ile Val Ala Asp
420     425     430

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Ile Ala Trp Ala Val Val Ala Tyr Trp Gln Ala Thr His Asp Asp Ala
 435 440 445
 Phe Met Arg Asn Glu Gly Leu Thr Leu Leu Met Glu Thr Ala Ser Phe
 450 455 460
 Trp Met Gly Arg Ala Thr Glu Ile Asn Gly Arg Leu Glu Ile His Asp
 465 470 475 480
 Val Ile Gly Pro Asp Glu Tyr Thr Glu His Val Asn Asn Asn Ala Tyr
 485 490 495
 Thr Asn Tyr Leu Ala Trp His Asn Val Ala Cys Ala Arg Gln Phe Met
 500 505 510
 Ala Lys Phe Gly Arg Glu Asp Ala Arg Phe Thr Glu Asn Ala Gly Lys
 515 520 525
 Phe Leu Ala Arg Leu Trp Leu Pro Glu Ala Asp Ala Glu Gly Val Ile
 530 535 540
 Pro Gln Asp Asp Thr Phe Met Ala Lys Pro Ala Ile Asp Leu Ser Arg
 545 550 555 560
 Tyr Lys Ala Lys Ala Gly Lys Gln Thr Ile Leu Leu Asp Tyr Ser Arg
 565 570 575
 Ala Glu Val Asn Glu Met Gln Ile Leu Lys Gln Ala Asp Val Val Met
 580 585 590
 Leu Asn Tyr Leu Leu Pro Glu Arg Phe Thr Pro Gln Gln Cys Ala Ala
 595 600 605
 Asn Leu Ala Phe Tyr Glu Pro Arg Thr Ile His Asp Ser Ser Leu Ser
 610 615 620
 Lys Ala Ile His Gly Ile Val Leu Ala Arg Cys Gly Asp Thr Glu Gly
 625 630 635 640
 Ala Tyr Ala Phe Trp Arg Asp Gly Ile Ala Ile Asp Leu Gly Asp Asp
 645 650 655
 Pro His Ser Ser Asp Asp Gly Ile His Ala Ala Ala Thr Gly Ala Ile
 660 665 670
 Trp Leu Gly Ala Ile Gln Gly Phe Ala Gly Leu His Ile Ser Glu Gly
 675 680 685
 Glu Leu His Leu Ala Pro Lys Leu Pro Ala His Trp Gln Lys Leu Ala
 690 695 700
 Phe Pro Leu Arg Trp Arg Gly Ala Thr Met His Ile Thr Cys Glu Asp
 705 710 715 720
 Asp Leu Leu Thr Ile Glu Thr Thr Ala Pro Val Thr Leu Thr Leu Trp
 725 730 735
 Gly Lys Thr Leu His Val Ser Gly Arg Lys Val Cys Glu Arg Lys Asp
 740 745 750
 Phe Leu Val Pro Val Asn Gly Thr Ala Thr Thr Glu Gly Arg His Asp
 755 760 765
 Ala
 770

<210> 7539

<211> 469

<212> PRT

<213> Enterobacter cloacae

<400> 7539

Arg Thr Ala Met Lys Arg Leu Lys Asn Glu Phe Asn Ser Leu Val Asn
 1 5 10 15
 Arg Gly Val Asp Arg His Leu Arg Leu Ala Val Thr Gly Leu Ser Arg
 20 25 30
 Ser Gly Lys Thr Ala Phe Ile Thr Ala Met Val Asn Gln Leu Leu Asn
 35 40 45
 Leu His Ala Gly Ala Arg Leu Pro Leu Leu Ser Ala Val Arg Glu Glu
 50 55 60
 Arg Leu Leu Gly Val Lys Arg Val Pro Gln Arg Asp Phe Gly Ile Pro
 65 70 75 80

Arg Phe Thr Tyr Asp Glu Gly Leu Ala Gln Leu Tyr Gly Glu Pro Pro
 85 90 95
 Ala Trp Pro Thr Pro Thr Arg Gly Val Ser Glu Ile Arg Leu Ala Leu
 100 105 110
 Arg Phe Arg Ser Asn Glu Ser Leu Met Arg His Phe Lys Glu Thr Ser
 115 120 125
 Thr Leu Tyr Leu Glu Ile Val Asp Tyr Pro Gly Glu Trp Leu Leu Asp
 130 135 140
 Leu Pro Met Leu Ala Gln Asp Tyr Leu Asn Trp Ser Arg Gln Met Thr
 145 150 155 160
 Gly Leu Leu Gln Gly Gln Arg Ala Glu Trp Ser Thr Gln Trp Arg Gln
 165 170 175
 Leu Cys Glu Gly Leu Asp Pro Leu Ala Pro Ala Asp Glu Asn Arg Leu
 180 185 190
 Ala Val Ile Ala Glu Ala Trp Thr Asp Tyr Leu His Gln Cys Lys Gln
 195 200 205
 Glu Gly Leu His Phe Ile Gln Pro Gly Arg Phe Val Leu Pro Gly Asp
 210 215 220
 Leu Ala Gly Ala Pro Ala Leu Gln Phe Phe Pro Trp Pro Asp Val Asp
 225 230 235 240
 Ser Ile Gly Glu Ser Lys Leu Ala Gln Ala Asp Lys Thr Thr Asn Ala
 245 250 255
 Gly Met Leu Arg Glu Arg Tyr Asn Tyr Tyr Cys Glu Lys Val Val Lys
 260 265 270
 Gly Phe Tyr Lys Asn His Phe Leu Arg Phe Asp Arg Gln Ile Val Leu
 275 280 285
 Val Asp Cys Leu Gln Pro Leu Asn Ser Gly Pro Gln Ala Phe Asn Asp
 290 295 300
 Met Arg Leu Ala Leu Thr Gln Leu Met Gln Ser Phe His Tyr Gly Gln
 305 310 315 320
 Arg Thr Leu Phe Arg Arg Leu Phe Ser Pro Val Ile Asp Lys Leu Leu
 325 330 335
 Phe Ala Ala Thr Lys Ala Asp His Val Thr Val Asp Gln His Ala Asn
 340 345 350
 Met Val Ser Leu Leu Gln Gln Leu Val Gln Asp Ala Trp Gln Asn Ala
 355 360 365
 Ala Phe Glu Gly Ile Ser Met Asp Cys Leu Gly Leu Ala Ser Val Gln
 370 375 380
 Ala Thr Gln Ser Gly Leu Ile Asp Leu Asn Gly Glu Lys Ile Pro Ala
 385 390 395 400
 Leu Arg Gly Asn Arg Leu Ser Asp Gly Glu Pro Leu Thr Val Tyr Pro
 405 410 415
 Gly Glu Val Pro Ala Arg Leu Pro Gly Gln Ala Phe Trp Gln Ser Gln
 420 425 430
 Gly Phe Gln Phe Glu Ala Phe Arg Pro Gln Ser Met Asn Val Asp Gln
 435 440 445
 Pro Leu Pro His Ile Arg Leu Asp Ala Ala Leu Glu Phe Leu Ile Gly
 450 455 460
 Asp Lys Leu Arg
 465

<210> 7540

<211> 542

<212> PRT

<213> Enterobacter cloacae

<400> 7540

Gly Asp Arg Met Lys His Pro Val Ser Leu Leu Cys Thr Ala Leu Trp
 1 5 10 15
 Leu Cys Gly Leu Ser Ser Leu Ser Tyr Ala Ala Glu Val Pro Glu Gly
 20 25 30

Thr	Val	Leu	Ala	Gln	Lys	Gln	Glu	Leu	Val	Arg	His	Ile	Lys	Asp	Glu
	35						40					45			
Pro	Ala	Ser	Leu	Asp	Pro	Ala	Lys	Ala	Val	Gly	Leu	Pro	Glu	Ile	Gln
	50					55					60				
Val	Ile	Arg	Asp	Leu	Tyr	Glu	Gly	Leu	Val	Asn	Gln	Asn	Glu	Lys	Gly
65					70					75				80	
Glu	Leu	Val	Pro	Gly	Val	Ala	Thr	Arg	Trp	Gln	Ser	Asn	Asp	Asn	Arg
				85					90					95	
Val	Trp	Thr	Phe	Thr	Leu	Arg	Asp	Asn	Ala	Lys	Trp	Ser	Asp	Gly	Thr
			100					105						110	
Pro	Val	Thr	Ala	Gln	Asp	Phe	Val	Tyr	Ser	Trp	Arg	Arg	Leu	Val	Asp
			115				120					125			
Pro	Lys	Thr	Thr	Ser	Pro	Phe	Ala	Trp	Phe	Ala	Ala	Leu	Ala	Gly	Ile
	130					135				140					
Asn	Asn	Ala	Gln	Ser	Ile	Ile	Asp	Gly	Lys	Ala	Ala	Pro	Asp	Thr	Leu
145					150					155					160
Gly	Val	Thr	Ala	Val	Asp	Ala	Lys	Thr	Leu	Arg	Val	Gln	Leu	Asp	Lys
				165					170					175	
Pro	Leu	Pro	Trp	Phe	Ser	Asn	Leu	Thr	Ala	Asn	Phe	Ala	Phe	Tyr	Pro
			180					185					190		
Val	Gln	Lys	Ala	Asn	Val	Glu	Ser	Gly	Lys	Glu	Trp	Thr	Arg	Pro	Gly
			195				200					205			
Ala	Leu	Ile	Gly	Asn	Gly	Ala	Tyr	Val	Leu	Lys	Asp	Arg	Val	Val	Asn
	210					215					220				
Glu	Lys	Leu	Val	Val	Glu	Pro	Asn	Ser	His	Tyr	Trp	Asp	Asn	Ala	Arg
225					230					235					240
Thr	Val	Leu	Lys	Lys	Val	Thr	Phe	Val	Pro	Ile	Asn	Gln	Glu	Ser	Ser
				245					250					255	
Ala	Thr	Lys	Arg	Tyr	Leu	Ala	Gly	Asp	Ile	Asp	Ile	Thr	Glu	Ser	Phe
			260				265						270		
Pro	Lys	Asn	Met	Tyr	Gln	Lys	Leu	Leu	Lys	Asp	Ile	Pro	Gly	Gln	Val
			275				280					285			
Tyr	Thr	Pro	Pro	Gln	Leu	Gly	Thr	Tyr	Tyr	Tyr	Ala	Phe	Asn	Thr	Gln
	290					295					300				
Lys	Gly	Pro	Thr	Ala	Asp	Ala	Arg	Val	Arg	Leu	Ala	Leu	Ser	Met	Thr
305					310					315					320
Ile	Asp	Arg	Arg	Ile	Met	Ala	Glu	Lys	Val	Leu	Gly	Thr	Gly	Glu	Lys
				325					330					335	
Pro	Ala	Trp	His	Phe	Thr	Pro	Asp	Val	Thr	Ala	Gly	Phe	Thr	Pro	Glu
			340					345					350		
Thr	Ser	Pro	Phe	Glu	Gln	Met	Ser	Gln	Gln	Glu	Leu	Asn	Ala	Gln	Ala
			355				360					365			
Lys	Thr	Leu	Leu	Gln	Ala	Ala	Gly	Tyr	Gly	Pro	Gln	Arg	Pro	Leu	Lys
	370					375					380				
Leu	Thr	Leu	Leu	Tyr	Asn	Thr	Ser	Glu	Asn	His	Gln	Lys	Ile	Ala	Ile
385					390					395					400
Ala	Val	Ala	Ser	Met	Trp	Lys	Lys	Asn	Leu	Gly	Val	Asp	Val	Lys	Leu
				405					410					415	
Gln	Asn	Gln	Glu	Trp	Lys	Thr	Tyr	Ile	Asp	Ser	Arg	Asn	Thr	Gly	Asn
			420					425					430		
Phe	Asp	Val	Ile	Arg	Ala	Ser	Trp	Val	Gly	Asp	Tyr	Asn	Glu	Pro	Ser
	435						440					445			
Thr	Phe	Leu	Ser	Leu	Leu	Thr	Ser	Ser	His	Ser	Gly	Asn	Ile	Ser	Arg
	450					455					460				
Phe	Asn	Asp	Pro	Ala	Tyr	Asp	Lys	Ile	Ile	His	Gln	Ala	Thr	Leu	Glu
465					470					475					480
Thr	Thr	Glu	Lys	Ala	Arg	Asn	Ala	Asp	Tyr	Asn	Met	Ala	Glu	Lys	Ile
				485					490					495	
Leu	Thr	Glu	Lys	Ala	Pro	Ile	Ala	Pro	Ile	Tyr	Gln	Tyr	Thr	Asn	Gly
			500					505					510		
Arg	Leu	Ile	Lys	Pro	Trp	Val	Lys	Gly	Tyr	Pro	Ile	Asn	Asn	Pro	Glu

	515		520		525							
Asp	Val	Ala	Tyr	Ser	Arg	Thr	Met	Tyr	Ile	Glu	Lys	His
	530					535					540	

<210> 7541

<211> 366

<212> PRT

<213> Enterobacter cloacae

<400> 7541

Leu	Pro	Ala	Ala	Gly	Gln	Pro	Ile	Arg	Pro	Ile	Cys	Ser	Arg	Ser	Thr
1				5					10					15	
Ser	Thr	Thr	Pro	Pro	Leu	Ser	Ile	Ser	Ile	Trp	Ala	Met	Ala	Arg	Arg
			20					25					30		
Trp	Arg	Gly	Ser	Cys	Ser	Trp	Trp	Trp	Pro	Ser	Ser	Pro	Val	Ser	Pro
		35					40					45			
Leu	Ser	Arg	Arg	Asn	Thr	Gly	Cys	Ser	Thr	Pro	Pro	Ile	Lys	Glu	Ala
	50					55					60				
Lys	Met	Ala	Asp	Ile	Gln	Gln	Leu	Ser	Thr	Ala	Arg	Ser	Val	Ala	Glu
65					70					75					80
Arg	Glu	Val	Ala	Arg	Thr	Leu	Arg	Arg	Glu	Lys	Ile	Asn	Ala	Ser	Val
				85					90					95	
Arg	Tyr	Val	Ile	Leu	Leu	Val	Val	Gly	Leu	Leu	Met	Leu	Tyr	Pro	Leu
			100					105					110		
Val	Trp	Met	Phe	Ser	Ala	Ser	Phe	Lys	Pro	Asn	His	Glu	Ile	Phe	Thr
		115					120					125			
Thr	Leu	Ser	Leu	Trp	Pro	Ala	His	Ala	Thr	Trp	Asp	Gly	Phe	Val	Asn
	130					135					140				
Gly	Trp	Lys	Thr	Gly	Thr	Glu	Tyr	Asn	Phe	Gly	His	Tyr	Met	Leu	Asn
145					150					155					160
Thr	Phe	Lys	Tyr	Val	Ile	Pro	Lys	Val	Ile	Leu	Thr	Ile	Ile	Ser	Ser
				165					170					175	
Thr	Ile	Val	Ala	Tyr	Gly	Phe	Ala	Arg	Phe	Glu	Ile	Pro	Trp	Lys	Lys
			180					185					190		
Phe	Trp	Phe	Ala	Thr	Leu	Ile	Thr	Thr	Met	Leu	Leu	Pro	Ser	Thr	Val
		195					200					205			
Leu	Leu	Ile	Pro	Gln	Tyr	Leu	Met	Phe	Arg	Glu	Met	Gly	Met	Leu	Asn
	210					215					220				
Ser	Tyr	Met	Pro	Leu	Tyr	Leu	Pro	Leu	Ala	Phe	Ala	Thr	Gln	Gly	Phe
225					230					235					240
Phe	Val	Phe	Met	Leu	Ile	Gln	Phe	Leu	Arg	Gly	Val	Pro	Arg	Asp	Met
				245					250					255	
Glu	Glu	Ala	Ala	Gln	Ile	Asp	Gly	Cys	Asn	Ser	Ile	Gln	Val	Leu	Trp
			260					265					270		
Tyr	Val	Val	Val	Pro	Ile	Leu	Lys	Pro	Ala	Ile	Ile	Ser	Val	Ala	Leu
		275					280					285			
Phe	Gln	Phe	Met	Trp	Ser	Met	Asn	Asp	Phe	Ile	Gly	Pro	Leu	Ile	Tyr
	290					295					300				
Val	Tyr	Ser	Val	Asp	Lys	Tyr	Pro	Ile	Ala	Leu	Ala	Leu	Lys	Met	Ser
305					310					315					320
Ile	Asp	Val	Thr	Glu	Gly	Ala	Pro	Trp	Asn	Glu	Ile	Leu	Ala	Met	Ala
				325					330					335	
Ser	Ile	Ser	Ile	Leu	Pro	Ser	Ile	Ile	Val	Phe	Phe	Leu	Ala	Gln	Arg
			340					345					350		
Tyr	Phe	Val	Gln	Gly	Val	Thr	Ser	Ser	Gly	Ile	Lys	Gly			
		355					360					365			

<210> 7542

<211> 380

<212> PRT

<213> Enterobacter cloacae

<400> 7542

Glu Gly Asn Thr Met Ala Glu Val Ile Phe Asn Lys Leu Glu Lys Val
 1 5 10 15
 Tyr Ser Asn Gly Phe Lys Ala Val His Ala Ile Asp Leu Lys Ile Ala
 20 25 30
 Glu Gly Glu Phe Met Val Ile Val Gly Pro Ser Gly Cys Ala Lys Ser
 35 40 45
 Thr Thr Leu Arg Met Leu Ala Gly Leu Glu Thr Ile Ser Gly Gly Glu
 50 55 60
 Val Arg Ile Gly Asp Lys Ile Val Asn Asn Leu Ala Pro Lys Glu Arg
 65 70 75 80
 Gly Ile Ala Met Val Phe Gln Asn Tyr Ala Leu Tyr Pro His Met Thr
 85 90 95
 Val Arg Glu Asn Leu Ala Phe Gly Leu Lys Leu Ser Lys Leu Pro Lys
 100 105 110
 Asp Gln Ile Glu Ser Gln Val Asn Glu Ala Ala Lys Ile Leu Glu Leu
 115 120 125
 Glu Glu Leu Leu Asp Arg Leu Pro Arg Gln Leu Ser Gly Gly Gln Ala
 130 135 140
 Gln Arg Val Ala Val Gly Arg Ala Ile Val Lys Lys Pro Asp Val Phe
 145 150 155 160
 Leu Phe Asp Glu Pro Leu Ser Asn Leu Asp Ala Lys Leu Arg Ala Ser
 165 170 175
 Met Arg Ile Arg Ile Ser Asp Leu His Lys Gln Leu Lys Lys Ser Gly
 180 185 190
 Lys Pro Ala Thr Thr Val Tyr Val Thr His Asp Gln Thr Glu Ala Met
 195 200 205
 Thr Met Gly Asp Arg Ile Cys Val Met Lys Leu Gly His Ile Met Gln
 210 215 220
 Val Asp Thr Pro Asp Asn Leu Tyr His Lys Pro Arg Asn Met Phe Val
 225 230 235 240
 Ala Gly Phe Ile Gly Ala Pro Glu Met Asn Ile Arg Lys Ser Val Leu
 245 250 255
 Val Glu Lys Ala Gly Gln Leu His Ile Ala Ile Gly Asp Glu Thr Met
 260 265 270
 Pro Leu Asn Ala Glu Lys Gln Glu Lys Val Ala Ala Tyr Ala Gly Gln
 275 280 285
 Glu Ile Tyr Tyr Gly Val Arg Pro Glu Phe Val Ser Leu Ser Asp Glu
 290 295 300
 Pro Phe Pro Asn Gly Gly Cys Ser Gly Glu Met Val Arg Val Glu Asn
 305 310 315 320
 Met Gly His Glu Phe Phe Val Tyr Leu Lys Val Ala Asp Tyr Glu Leu
 325 330 335
 Thr Ala Arg Ile Pro Ser Asp Glu Ala Lys Pro Met Ile Asp Lys Gly
 340 345 350
 Leu His Arg Lys Val Tyr Phe Thr Phe Glu Met Asn Lys Cys His Ile
 355 360 365
 Phe Asp Ala Lys Thr Glu Gln Asn Leu Ser Leu
 370 375 380

<210> 7543

<211> 341

<212> PRT

<213> Enterobacter cloacae

<400> 7543

Met Ala Thr Ile Lys Asp Val Ala Arg Leu Ala Gly Val Ser Val Ala
 1 5 10 15
 Thr Val Ser Arg Val Ile Asn Asn Ser Pro Lys Ala Ser Asp Ala Ser
 20 25 30

Arg Gln Ala Val Gln Asp Ala Met Glu Asn Leu Asn Tyr His Pro Asn
 35 40 45
 Ala Asn Ala Arg Ala Leu Ala Gln Gln Ser Thr Glu Thr Ile Gly Leu
 50 55 60
 Val Val Gly Asp Val Ser Asp Pro Phe Phe Gly Ala Met Val Lys Ala
 65 70 75 80
 Val Glu Gln Val Ser Tyr His Thr Gly Asn Phe Leu Leu Ile Gly Asn
 85 90 95
 Gly Tyr His Asn Glu Gln Lys Glu Arg Gln Ala Ile Glu Gln Leu Ile
 100 105 110
 Arg His Arg Cys Ala Ala Leu Val His Ala Lys Met Ile Pro Asp
 115 120 125
 Ala Glu Leu Ile His Leu Met Lys Gln Met Pro Gly Met Val Ile Ile
 130 135 140
 Asn Arg Ile Ile Pro Gly Phe Glu Thr Arg Cys Val Ala Leu Asp Asp
 145 150 155 160
 Arg Tyr Gly Ala Trp Leu Ala Thr Arg His Leu Ile Gln Gln Gly His
 165 170 175
 Thr Arg Ile Gly Tyr Leu Cys Ser Asn His Pro Ile Ser Asp Ala Glu
 180 185 190
 Asp Arg Leu Gln Gly Tyr Tyr Asp Ala Leu Arg Glu Ala Gly Leu Pro
 195 200 205
 Cys Asn Asp Arg Leu Val Ala Tyr Gly Glu Pro Asp Glu Ser Gly Gly
 210 215 220
 Glu Gln Ala Met Thr Glu Leu Leu Gly Arg Gly Arg Asn Phe Thr Ala
 225 230 235 240
 Val Ala Ser Tyr Asn Asp Ser Met Ala Ala Gly Ala Met Gly Val Leu
 245 250 255
 Asn Asp Asn Gly Ile Asp Val Pro Ala Glu Ile Ser Leu Ile Gly Phe
 260 265 270
 Asp Asp Val Leu Val Ser Arg Tyr Val Arg Pro Arg Leu Thr Thr Val
 275 280 285
 Arg Tyr Pro Ile Val Thr Met Ala Thr Gln Ala Ala Glu Leu Ala Leu
 290 295 300
 Ala Leu Ala Glu His Arg Pro Pro Pro Glu Ile Thr His Leu Phe Ser
 305 310 315 320
 Pro Thr Leu Val Arg Arg His Ser Val Val Ser Pro Ala Glu Ala Val
 325 330 335
 Ser Glu Gln Arg
 340

<210> 7544

<211> 319

<212> PRT

<213> Enterobacter cloacae

<400> 7544

Tyr Gly Thr Arg Ser Ala Ile Arg Cys Pro Met Pro Ala Val Asn Leu
 1 5 10 15
 Arg His Ile Glu Ile Phe His Ala Val Met Thr Thr Gly Asn Leu Thr
 20 25 30
 Glu Ala Ala His Met Leu His Thr Ser Gln Pro Thr Val Ser Arg Glu
 35 40 45
 Leu Ala Arg Phe Glu Lys Val Leu Gly Leu Lys Leu Phe Glu Arg Thr
 50 55 60
 Arg Gly Arg Leu His Pro Thr Val Gln Gly Leu Arg Leu Phe Glu Glu
 65 70 75 80
 Val Gln Arg Ser Trp Tyr Gly Leu Asp Arg Ile Val Ser Ala Ala Glu
 85 90 95
 Ser Leu Arg Glu Phe Arg Gln Gly Glu Leu Ser Ile Val Cys Leu Pro
 100 105 110

Val Phe Ser Gln Ser Phe Leu Pro Val Leu Leu Gln Pro Phe Leu Ala
 115 120 125
 Arg Tyr Pro Glu Val Ser Leu Thr Ile Val Pro Gln Glu Ser Pro Leu
 130 135 140
 Leu Glu Glu Trp Leu Ser Ala Gln Arg His Asp Leu Gly Leu Thr Glu
 145 150 155 160
 Thr Leu Val Thr Pro Ala Gly Thr Glu Arg Thr Glu Leu Leu Ser Leu
 165 170 175
 Asp Glu Val Cys Val Leu Pro Ala Ser His Pro Leu Ala His Lys Thr
 180 185 190
 Val Leu Thr Pro Ala Asp Phe His Gly Glu Asn Tyr Ile Ser Leu Ser
 195 200 205
 Gln Thr Asp Ser Tyr Arg Gln Leu Leu Asp Gly Leu Phe Ala Glu His
 210 215 220
 Gln Val Lys Arg Arg Met Val Met Glu Thr His Ser Ala Ala Ser Ile
 225 230 235 240
 Cys Ala Met Val Arg Ala Gly Val Gly Ile Ser Val Val Asn Pro Leu
 245 250 255
 Thr Ala Met Asp Tyr Ala Ser Ser Gly Val Val Leu Arg Arg Phe Ser
 260 265 270
 Val Ser Val Pro Phe Thr Val Ser Leu Ile Arg Pro Leu His Arg Pro
 275 280 285
 Ala Ser Ala Leu Val Asp Ala Phe Ser Glu His Leu Ile Ala His Ala
 290 295 300
 Arg Gln Val Ala Leu Arg Leu Pro Asp Leu Gln Lys Pro Leu
 305 310 315

<210> 7545

<211> 112

<212> PRT

<213> Enterobacter cloacae

<400> 7545

Gln Gly Glu Asn Met Phe Ile Phe His Lys Glu Thr Thr Leu Glu Asp
 1 5 10 15
 Leu Gly Asn Gly Val Thr Arg Arg Ile Leu Ala His Asp Gly Arg Met
 20 25 30
 Met Ala Val Glu Val Asn Phe Glu Gly Ala Ile Gly Pro Met His
 35 40 45
 Asn His Pro His Glu Gln Leu Thr Tyr Val Leu Ser Gly Glu Phe Glu
 50 55 60
 Phe Thr Ile Gly Glu Glu Lys His Val Val Thr Ala Gly Asp Thr Leu
 65 70 75 80
 Tyr Lys Ala Pro His Val Met His Gly Cys Val Cys Leu Lys Pro Gly
 85 90 95
 Thr Leu Leu Asp Thr Phe Thr Pro Val Arg Glu Asp Phe Leu Lys
 100 105 110

<210> 7546

<211> 450

<212> PRT

<213> Enterobacter cloacae

<400> 7546

Thr Ser Val Ile Phe Leu Thr Gln Lys Leu Asn Arg Thr Ser Leu Ser
 1 5 10 15
 Asp Gly Val Ile Lys Met Lys Lys Val Leu Leu Ser Ala Ala Ile Ser
 20 25 30
 Ala Thr Leu Gly Leu Thr Ala Leu Pro Ser Met Ala Gln Asn Val Asp
 35 40 45
 Leu Arg Met Ser Trp Trp Gly Gly Asn Gly Arg His Gln Val Thr Leu

50 55 60
 Lys Ala Leu Glu Glu Phe His Lys Gln Asn Pro Asp Ile Asn Val Lys
 65 70 75 80
 Ala Glu Tyr Thr Gly Trp Asp Gly His Leu Ser Arg Leu Thr Thr Gln
 85 90 95
 Ile Ala Gly Gly Thr Glu Pro Asp Val Met Gln Thr Asn Trp Asn Trp
 100 105 110
 Leu Pro Ile Phe Ser Lys Thr Gly Asp Gly Phe Tyr Asp Leu Asn Lys
 115 120 125
 Met Lys Asp Val Ile Asp Leu Ser Gln Phe Asp Pro Lys Glu Leu Gln
 130 135 140
 Thr Thr Thr Val Asp Gly Lys Leu Asn Gly Ile Pro Ile Ser Val Thr
 145 150 155 160
 Ala Arg Val Phe Tyr Phe Asn Asp Glu Thr Trp Lys Lys Ala Gly Ile
 165 170 175
 Ala Tyr Pro Lys Thr Trp Asp Glu Leu Met Ala Ala Gly Lys Thr Phe
 180 185 190
 Glu Ser Lys Leu Gly Lys Gln Tyr Tyr Pro Val Ile Leu Glu His Gln
 195 200 205
 Asp Thr Leu Ala Leu Leu Asn Ser Tyr Met Ile Gln Lys Tyr Asn Ile
 210 215 220
 Pro Ala Val Asp Glu Lys Thr Lys Lys Phe Ser Tyr Thr Lys Glu Gln
 225 230 235 240
 Trp Val Glu Phe Phe Gln Thr Tyr Lys Lys Leu Ile Asp Ser His Val
 245 250 255
 Met Pro Asp Thr Lys Tyr Tyr Ala Ser Phe Gly Lys Ser Asn Met Tyr
 260 265 270
 Glu Met Lys Pro Trp Ile Gln Gly Glu Trp Gly Gly Thr Tyr Met Trp
 275 280 285
 Asn Ser Thr Ile Asn Lys Tyr Ser Asp Asn Leu Lys Pro Pro Ala Lys
 290 295 300
 Leu Glu Leu Gly Asn Tyr Pro Met Leu Pro Gly Ala Thr Asp Ala Gly
 305 310 315 320
 Leu Phe Phe Lys Pro Ala Gln Met Leu Ser Ile Gly Lys Thr Thr Lys
 325 330 335
 Asn Pro Glu Ala Ala Ala Lys Leu Ile Asn Phe Leu Leu Asn Ser Lys
 340 345 350
 Glu Gly Val Asp Thr Leu Gly Leu Glu Arg Gly Val Pro Leu Ser Lys
 355 360 365
 Val Ala Val Gln Tyr Leu Thr Glu Asp Gly Thr Ile Lys Glu Asp Asp
 370 375 380
 Pro Ser Val Ala Gly Leu Arg Leu Ala Gln Ser Leu Pro Ala Lys Leu
 385 390 395 400
 Thr Val Ser Pro Tyr Phe Asp Asp Pro Gln Ile Val Ala Gln Phe Gly
 405 410 415
 Thr Ser Leu Gln Tyr Ile Asp Tyr Gly Gln Lys Thr Val Glu Glu Thr
 420 425 430
 Ala Ala Asp Phe Gln Arg Gln Ala Glu Arg Ile Leu Arg Arg Ala Met
 435 440 445
 Arg
 450

<210> 7547

<211> 373

<212> PRT

<213> Enterobacter cloacae

<400> 7547

Gly Phe Ala Leu Pro Thr Ser Leu Met Arg Arg Met Val Cys Val Lys
 1 5 10 15
 Leu Gln Thr Ile Thr Trp Lys Gln Glu Phe Arg Met Ala Thr Met Leu

20 25 30
 Asp Val Ser Leu Arg Ala Gly Val Ser Lys Ala Thr Val Ser Arg Val
 35 40 45
 Leu Asn Gly Thr Gly Gln Val Lys Glu Ser Thr Arg Gln Gln Val Phe
 50 55 60
 Arg Ala Met Glu Glu Leu Gly Tyr Arg Pro Asn Phe Leu Ala Arg Ser
 65 70 75 80
 Leu Ala Asn Gln Thr Ser Asn Ser Ile Gly Leu Val Val Ser Thr Phe
 85 90 95
 Asp Gly Phe Tyr Phe Gly Arg Leu Leu Gln Gln Ala Ser Arg Gln Thr
 100 105 110
 Glu Lys His Gly Lys Gln Leu Ile Val Thr Asp Gly His Asp Ala Pro
 115 120 125
 Glu Gln Glu Glu Gln Ala Val Gln Met Leu Ala Asp Arg Lys Cys Asp
 130 135 140
 Ala Ile Val Leu Tyr Thr Arg Tyr Met Ser Glu Lys Thr Ile Leu Lys
 145 150 155 160
 Leu Ile Asn Ser Val Gln Thr Pro Leu Val Ile Ile Asn Arg Glu Val
 165 170 175
 Ser Gln Ala Ala Asp Arg Cys Val Phe Phe Glu Gln Gln Asp Ala Ala
 180 185 190
 Phe Lys Ala Val Asp Tyr Leu Ile Ser Gln Gly His Arg Glu Ile Ala
 195 200 205
 Cys Ile Thr Val Pro Ile His Thr Pro Thr Gly Lys Ala Arg Leu Met
 210 215 220
 Gly Tyr Arg Lys Ala Leu Glu Lys His Gly Ile Arg Leu Asp Glu Arg
 225 230 235 240
 Arg Ile Lys Tyr Gly Asp Ala Gly Met Thr Arg Gly Tyr Glu Leu Cys
 245 250 255
 Lys Glu Leu Ile Ala Glu Lys Thr Ser Phe Ser Ala Leu Phe Ala Cys
 260 265 270
 Asn Asp Asp Met Ala Leu Gly Ala Ser Lys Ala Leu His Gln Ala Gly
 275 280 285
 Leu Lys Ile Pro Gln Asp Ile Ser Leu Phe Gly Phe Asp Asp Ala Pro
 290 295 300
 Ser Ala Lys Trp Leu Glu Pro Ala Leu Ser Ser Val Tyr Leu Pro Ile
 305 310 315 320
 Asp Asn Met Ile Val Thr Ala Ile Asp Gln Ala Ile Arg Leu Thr Lys
 325 330 335
 Asn Gln Pro Val Glu Ala Ile Pro Pro Phe Thr Gly Thr Leu Val Leu
 340 345 350
 Arg Asp Ser Val Thr Thr Gly Pro Trp Phe Asn Gln Thr Ser Ser Asn
 355 360 365
 Ala Ser Ser Ser
 370

<210> 7548

<211> 299

<212> PRT

<213> Enterobacter cloacae

<400> 7548

Val Cys Met Asn Glu Asn Lys Leu Leu Gly Leu Ala Trp Ile Ser Pro
 1 5 10 15
 Tyr Ile Ile Gly Leu Ile Leu Phe Thr Ala Phe Pro Phe Val Ser Ser
 20 25 30
 Phe Phe Leu Ser Phe Thr Asp Tyr Asp Leu Met Ser Pro Pro Val Phe
 35 40 45
 Asn Gly Ile Glu Asn Tyr Arg Tyr Met Phe Thr Glu Asp Thr Leu Phe
 50 55 60
 Trp Lys Ser Met Gly Val Thr Phe Ala Tyr Val Phe Leu Thr Ile Pro

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65          70          75          80
Leu Lys Leu Ala Phe Ala Leu Gly Ile Ala Phe Val Leu Asn Phe Lys
      85          90
Leu Arg Gly Ile Gly Phe Phe Arg Thr Ala Tyr Tyr Ile Pro Ser Ile
      100      105      110
Leu Gly Ser Ser Val Ala Ile Ala Val Leu Trp Arg Ala Leu Phe Ala
      115      120      125
Ile Asp Gly Leu Leu Asn Ser Phe Ile Gly Val Phe Gly Phe Asp Pro
      130      135      140
Val Asn Trp Leu Gly Glu Pro Ser Leu Ala Leu Met Ser Val Thr Leu
      145      150      155      160
Leu Arg Val Trp Gln Phe Gly Ser Ala Met Val Ile Phe Leu Ala Ala
      165      170      175
Leu Gln Asn Val Pro Gln Ser Gln Tyr Glu Ala Ala Met Ile Asp Gly
      180      185      190
Ala Ser Lys Trp Gln Met Phe Met Lys Val Thr Val Pro Leu Ile Thr
      195      200      205
Pro Val Ile Phe Phe Asn Phe Ile Met Gln Thr Thr Gln Ala Phe Gln
      210      215      220
Glu Phe Thr Gly Pro Tyr Val Ile Thr Gly Gly Gly Pro Thr Tyr Ser
      225      230      235      240
Thr Tyr Leu Phe Ser Leu Tyr Ile Tyr Asp Thr Ala Phe Lys Tyr Phe
      245      250      255
Asp Met Gly Tyr Gly Ala Ala Leu Ala Trp Ile Leu Phe Leu Val Val
      260      265      270
Ala Val Phe Ala Gly Ile Ala Phe Lys Ser Ser Lys Tyr Trp Val Phe
      275      280      285
Tyr Ser Ala Asp Lys Gly Gly Lys Asn Gly
      290      295

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<210> 7549

<211> 475

<212> PRT

<213> Enterobacter cloacae

<400> 7549

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Ser Gln Asn Lys Ala Pro Val Gly Ala Ile Phe Gly Ile Pro Ile Val
1          5          10          15
Ser Gly Cys Pro Ser Tyr Ser Ile Lys Ala Leu Leu Leu Arg Tyr Tyr
      20      25      30
Pro Met Ala Phe Gln Glu Lys Leu Ile Asp Ala Leu Gly Ser Phe Ala
      35      40      45
Thr Thr Phe Asn Ser Tyr Arg Tyr Ile Gln Ala Ile Lys Ser Ala Phe
      50      55      60
Ile Thr Leu Met Pro Val Ile Ile Val Gly Ala Phe Ser Val Leu Ile
      65      70      75      80
Ser Asn Met Val Leu Asp Pro Lys Asn Gly Leu Ala Ser Phe Gln Ser
      85      90      95
Leu Ser Phe Leu Ala Ala Leu Lys Pro Ile Thr Ser Ala Leu Asn Tyr
      100      105      110
Ala Thr Leu Asn Phe Leu Asn Ile Gly Ala Val Phe Leu Ile Gly Ile
      115      120      125
Glu Leu Gly Arg Ile Asn Gly Ile Lys Ser Leu Phe Pro Gly Leu Leu
      130      135      140
Ala Val Ile Cys Phe Ile Cys Val Thr Pro Thr Thr Val Glu Met Leu
      145      150      155      160
Val Asp Gly Glu Met His Val Val Lys Asp Val Leu Leu Arg Gln Phe
      165      170      175
Ser Asp Thr Arg Ser Leu Phe Leu Gly Met Phe Ile Ala Ile Leu Ser
      180      185      190
Val Glu Ile Tyr Cys Trp Leu Glu Asn Arg Arg Gly Leu Lys Ile Arg

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<210> 7550
<211> 498
<212> PRT
<213> Enterobacter cloacae
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Lys	Leu	Pro	His	Ala	Ala	Gln	Ser	Arg	Pro	Arg	Cys	Asn	Lys	Pro	Pro
1				5					10					15	
Ile	Thr	His	Glu	Asp	Arg	Met	Ser	Ile	Lys	Gln	Ile	Thr	Ile	Pro	Gln
			20					25					30		
Asp	Phe	Met	Leu	Gly	Ala	Ala	Ala	Ser	Ala	Trp	Gln	Thr	Glu	Gly	Trp
		35					40					45			
Ser	Gly	Lys	Lys	Pro	Gly	Gln	Asp	Ser	Trp	Ile	Asp	Leu	Trp	Tyr	Lys
	50					55					60				
Asn	Asp	Arg	His	Val	Trp	His	Asn	Gly	Tyr	Gly	Pro	Ala	Val	Ala	Thr
65				70						75					80
Asp	Phe	Ile	Asn	Arg	Phe	Arg	Glu	Asp	Val	Ala	Leu	Met	Lys	Gln	Ala
			85						90					95	
Gly	Leu	Thr	His	Tyr	Arg	Thr	Ser	Ile	Asn	Trp	Ser	Arg	Phe	Leu	Thr
			100					105					110		
Asp	Tyr	Glu	Asn	Ala	Thr	Val	Asp	Glu	Glu	Tyr	Ala	Ala	Tyr	Tyr	Asp
		115					120				125				
Ala	Leu	Phe	Asp	Glu	Met	His	Arg	Gln	Gly	Ile	Glu	Pro	Met	Ile	Cys
	130					135					140				
Leu	Glu	His	Tyr	Glu	Leu	Pro	Gly	Val	Gln	Leu	Glu	Thr	Tyr	Gly	Gly

145 150 155 160
 Trp Ala Ser Lys His Val Val Glu Leu Phe Val Arg Tyr Ala Glu Lys
 165 170 175
 Val Phe Glu Arg Phe His Gly Lys Val Thr Arg Trp Phe Thr Phe Asn
 180 185 190
 Glu Pro Ile Val Val Gln Thr Arg Val Tyr Leu Asp Ala Leu Arg Trp
 195 200 205
 Pro Tyr Glu Gln Asn Thr Ser Thr Trp Met Gln Trp Asn His His Lys
 210 215 220
 Val Leu Ala Thr Ala Lys Val Val Lys Leu Phe Arg Glu Lys Gly Tyr
 225 230 235 240
 Asp Gly Ser Val Gly Cys Ile Leu Asn Pro Glu Val Thr Tyr Pro Arg
 245 250 255
 Ser Arg Ala Pro His Asp Glu Arg Ala Ala Glu Met Tyr Asp Leu Phe
 260 265 270
 Tyr Asn Arg Val Phe Leu Asp Pro Leu Val His Gly Arg Tyr Pro Gln
 275 280 285
 Ala Leu Phe Thr Leu Leu Ala Gln His Gln Val Gln Trp Asp Tyr Thr
 290 295 300
 Ala Asp Glu Leu Ala Leu Ile Ala Asp Asn Thr Val Asp Glu Leu Gly
 305 310 315 320
 Ile Asn Leu Tyr Tyr Pro His Arg Val Lys Ala Pro Ser Arg Ala Trp
 325 330 335
 His Pro Glu Thr Pro Phe His Pro Ala Tyr Tyr Tyr Glu Pro Phe Glu
 340 345 350
 Leu Pro Gly Arg Arg Met Asn Thr Ser Arg Gly Trp Glu Ile Phe Pro
 355 360 365
 Arg Ile Ile Tyr Asp Met Ala Met Arg Ile Lys Asn Asp Tyr Arg Asn
 370 375 380
 Ile Asp Trp Phe Val Ala Glu Ser Gly Met Gly Val Glu Asn Glu Ala
 385 390 395 400
 Gln Phe Arg Asn Arg Asp Gly Ile Ile Asp Asp Thr Tyr Arg Ile Ala
 405 410 415
 Phe Ile Ser Glu His Leu Tyr Tyr Thr Leu Leu Ala Arg Glu Ala Gly
 420 425 430
 Ala Asn Cys His Gly Tyr Met Leu Trp Ala Phe Thr Asp Asn Val Ser
 435 440 445
 Pro Met Asn Ala Phe Lys Asn Arg Tyr Gly Leu Ile Glu Ile Asp Leu
 450 455 460
 Glu Asn Gln Arg Ala Arg Arg Ala Lys Lys Ser Ala Ser Trp Phe Arg
 465 470 475 480
 Gln Leu Arg Asp Glu Arg Val Leu Thr Leu Arg Val Asp Asp Glu Trp
 485 490 495
 Lys

<210> 7551

<211> 265

<212> PRT

<213> Enterobacter cloacae

<400> 7551

Leu Lys Asn Thr Gly Glu Asn Val Asp Lys Ala Val Ile Leu Pro Glu
 1 5 10 15
 Lys Lys Gln Tyr Gln Glu Ile Gly Glu Asp Leu Arg Ala Gln Ile Ile
 20 25 30
 Gln Gly His Tyr Pro Val Gly Ser Arg Leu Pro Pro Glu Arg Asn Ile
 35 40 45
 Ala Glu Thr Tyr Gly Val Ser Arg Thr Ile Val Arg Glu Ala Leu Leu
 50 55 60
 Met Leu Glu Leu Gln Gly Thr Val Asp Ile Arg Gln Gly Ser Gly Val

65					70					75					80
Tyr	Val	Met	Arg	Ile	Pro	Glu	Glu	His	Glu	Asn	Glu	Glu	Glu	Arg	Phe
				85					90					95	
Leu	Asn	Ser	Asp	Val	Gly	Pro	Phe	Glu	Ile	Leu	Gln	Ala	Arg	Gln	Leu
			100					105					110		
Leu	Glu	Ser	Asn	Ile	Ala	Ala	Phe	Ala	Ala	Lys	Met	Ala	Thr	Arg	Ala
		115					120					125			
Asp	Ile	Asp	Asn	Leu	Arg	Arg	Ile	Ile	Glu	Gln	Glu	Gln	Arg	Ala	Ile
	130					135					140				
Ala	Ala	Asp	Asp	Arg	Ser	Gln	Asp	Asn	Asn	Lys	Met	Phe	His	Leu	Val
145				150						155				160	
Leu	Ala	Gly	Ala	Thr	Gln	Asn	Gln	Met	Leu	Leu	Ala	Thr	Val	Glu	Ser
			165					170						175	
Val	Trp	His	His	Met	Asp	Ser	Ser	Pro	Leu	Trp	Gln	Gln	Phe	Asn	Gly
			180					185					190		
His	Ile	Ala	Ser	Arg	Ala	Trp	Arg	Leu	Lys	Trp	Leu	Gly	Asp	Arg	Gln
	195						200					205			
Thr	Ile	Leu	Ala	Ala	Leu	Arg	Arg	Arg	Asp	Val	Met	Gly	Ala	Trp	Gln
	210					215					220				
Ala	Met	Phe	Gln	His	Leu	Glu	Asn	Val	Lys	Lys	Ser	Leu	Leu	Glu	Leu
225				230					235					240	
Ser	Asp	Glu	Asp	Ala	Pro	Asp	Phe	Asp	Gly	Tyr	Leu	Phe	Glu	Ser	Val
			245					250						255	
Pro	Leu	Phe	Gln	Gly	Lys	Leu	Val								
			260				265								

<210> 7552

<211> 774

<212> PRT

<213> Enterobacter cloacae

<400> 7552

Leu	Val	Arg	Ile	Pro	Gly	Thr	Phe	Ser	Tyr	Ser	Ser	Leu	Ala	Pro	Thr
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Cys	Ala	Asp	Ala	Gln	Val	Phe	Phe	Arg	Leu	Cys	Phe	Cys	Tyr	Arg	Ser
		20					25					30			
Leu	Thr	Thr	Ser	Arg	Val	Ile	Cys	His	His	Leu	Tyr	Leu	Ser	His	Trp
	35					40						45			
Leu	Ala	Lys	Gly	Val	Glu	Met	Leu	Phe	Gly	Phe	Phe	Arg	Thr	Leu	Phe
	50					55					60				
Arg	Val	Leu	Phe	Arg	Ile	Arg	Val	Thr	Gly	Asp	Thr	Gln	Ala	Leu	Tyr
65				70					75					80	
Gly	Glu	Arg	Val	Leu	Ile	Thr	Pro	Asn	His	Val	Ser	Phe	Leu	Asp	Gly
			85					90					95		
Val	Leu	Leu	Ala	Leu	Phe	Leu	Pro	Val	Arg	Pro	Val	Phe	Ala	Val	Tyr
			100				105					110			
Ser	Ser	Ile	Ser	Glu	Lys	Trp	Tyr	Met	Arg	Trp	Leu	Lys	Pro	Leu	Ile
	115					120						125			
Asp	Phe	Val	Pro	Leu	Asp	Pro	Thr	Lys	Pro	Met	Met	Ile	Lys	His	Leu
	130				135					140					
Val	Arg	Leu	Ile	Gly	Gln	Gly	Arg	Pro	Val	Val	Ile	Phe	Pro	Glu	Gly
145				150						155				160	
Arg	Ile	Ser	Val	Thr	Gly	Ser	Leu	Met	Lys	Ile	Tyr	Asp	Gly	Ala	Gly
			165					170					175		
Phe	Val	Ala	Ala	Lys	Ser	Gln	Ala	Thr	Val	Val	Pro	Leu	Arg	Ile	Asp
		180					185					190			
Gly	Ala	Glu	Leu	Thr	Phe	Phe	Ser	Arg	Leu	Lys	Gly	Leu	Val	Lys	Gln
	195						200					205			
Arg	Leu	Phe	Pro	Lys	Ile	Thr	Leu	His	Ile	Leu	Pro	Pro	Thr	Ser	Leu
	210				215						220				
Pro	Met	Pro	Glu	Ala	Pro	Arg	Ala	Arg	Asp	Arg	Arg	Lys	Ile	Ala	Gly

225					230					235				240	
Glu	Met	Leu	His	Gln	Ile	Met	Met	Glu	Ala	Arg	Met	Ala	Val	Arg	Pro
				245					250					255	
Arg	Glu	Thr	Leu	Tyr	Glu	Ser	Leu	Leu	Ser	Ala	Gln	Tyr	Arg	Tyr	Gly
			260					265					270		
Ala	Lys	Lys	Asn	Cys	Ile	Glu	Asp	Ile	Asn	Phe	Thr	Pro	Asp	Thr	Tyr
		275					280					285			
Arg	Lys	Leu	Leu	Thr	Lys	Thr	Leu	Phe	Val	Gly	Arg	Ile	Leu	Glu	Lys
	290					295					300				
Tyr	Ser	Lys	Gln	Gly	Glu	Lys	Ile	Gly	Leu	Met	Leu	Pro	Asn	Ala	Gly
305				310						315					320
Ile	Ser	Ala	Ala	Val	Ile	Phe	Gly	Ala	Val	Ser	Arg	Gly	Arg	Ile	Pro
			325					330						335	
Ala	Met	Met	Asn	Tyr	Thr	Ala	Gly	Val	Lys	Gly	Leu	Ser	Ser	Ala	Ile
			340					345					350		
Thr	Ala	Ala	Gln	Ile	Asn	Thr	Val	Phe	Thr	Ser	Arg	Gln	Phe	Leu	Asp
		355					360					365			
Lys	Gly	Lys	Leu	Trp	His	Leu	Pro	Glu	Gln	Leu	Thr	Gln	Val	Arg	Trp
	370					375					380				
Val	Phe	Leu	Glu	Asp	Leu	Lys	Ala	Asp	Val	Thr	Thr	Ala	Asp	Lys	Leu
385				390					395						400
Trp	Ile	Phe	Ala	His	Leu	Leu	Met	Pro	Arg	Leu	Ala	Gln	Val	Lys	Gln
			405						410					415	
Gln	Pro	Glu	Asp	Asp	Ala	Ile	Ile	Leu	Phe	Thr	Ser	Gly	Ser	Glu	Gly
			420					425					430		
Asn	Pro	Lys	Gly	Val	Val	His	Ser	His	Lys	Ser	Ile	Leu	Ala	Asn	Val
		435					440					445			
Glu	Gln	Ile	Lys	Thr	Ile	Ala	Asp	Phe	Thr	Ala	Asn	Asp	Arg	Phe	Met
	450					455					460				
Ser	Ala	Leu	Pro	Leu	Phe	His	Ser	Phe	Gly	Leu	Thr	Val	Gly	Leu	Phe
465				470					475						480
Thr	Pro	Leu	Leu	Thr	Gly	Ala	Glu	Val	Phe	Leu	Tyr	Pro	Ser	Pro	Leu
			485					490						495	
His	Tyr	Arg	Ile	Val	Pro	Glu	Leu	Val	Tyr	Asp	Arg	Asn	Cys	Thr	Val
			500					505					510		
Leu	Phe	Gly	Thr	Ser	Thr	Phe	Leu	Gly	Asn	Tyr	Ala	Arg	Phe	Ala	Asn
		515					520					525			
Pro	Tyr	Asp	Phe	Phe	Arg	Val	Arg	Tyr	Val	Val	Ala	Gly	Ala	Glu	Lys
	530					535					540				
Leu	Gln	Asp	Ser	Thr	Arg	Gln	Ile	Trp	Gln	Asp	Lys	Phe	Gly	Leu	Arg
545					550					555					560
Ile	Leu	Glu	Gly	Tyr	Gly	Val	Thr	Glu	Cys	Ala	Pro	Val	Val	Ser	Ile
			565					570						575	
Asn	Val	Pro	Met	Ala	Ala	Lys	Pro	Gly	Thr	Val	Gly	Arg	Ile	Leu	Pro
		580						585					590		
Gly	Leu	Asp	Ala	Arg	Leu	Leu	Ala	Val	Pro	Gly	Ile	Glu	Asp	Gly	Gly
		595					600					605			
Arg	Leu	Gln	Leu	Lys	Gly	Pro	Asn	Val	Met	Asn	Gly	Tyr	Leu	Arg	Val
	610					615					620				
Glu	Asn	Pro	Gly	Val	Leu	Glu	Ala	Pro	Thr	Ala	Glu	Asn	Val	Asn	Gly
625				630						635					640
Glu	Val	Glu	Thr	Gly	Trp	Tyr	Asp	Thr	Gly	Asp	Ile	Val	Arg	Phe	Asp
			645						650					655	
Asp	Gln	Gly	Phe	Val	Gln	Ile	Gln	Gly	Arg	Ala	Lys	Arg	Phe	Ala	Lys
			660					665					670		
Ile	Ala	Gly	Glu	Met	Val	Ser	Leu	Glu	Met	Val	Glu	Thr	Leu	Ala	Thr
		675					680					685			
Ala	Val	Ser	Ala	Glu	Lys	Met	His	Ala	Thr	Val	Val	Lys	Ser	Asp	Ala
	690					695					700				
Ser	Lys	Gly	Glu	Ala	Leu	Val	Leu	Phe	Thr	Thr	Asp	Gly	Glu	Leu	Lys
705					710					715					720

Leu Ala Cys Ile Leu Gly Gly Leu Phe Ala Cys Gly Ser Val Leu Leu
 370 375 380
 Arg Glu Ala Met Ser Thr Arg Asn Pro Leu Pro Glu Gln Leu Pro Glu
 385 390 395 400
 Pro Val Thr Glu
 405

<210> 7554
 <211> 395
 <212> PRT
 <213> Enterobacter cloacae

<400> 7554
 His Gln Lys Arg Arg Ser Thr Glu Arg Leu Phe Leu Phe Gln Glu Ile
 1 5 10 15
 Phe Ala Tyr Arg Arg Lys Gly Ile Gln Gln Gly Ala Gly Phe Gln Ala
 20 25 30
 Asn Ala Ala Val His His Val Arg Arg Phe Ile Glu Gly Val Ala Arg
 35 40 45
 Gly His His Met Leu Leu Leu Ala Asn Gly Glu Leu Lys Phe Pro Arg
 50 55 60
 Glu Asn Val Gly Glu Leu Leu Met Arg Val Val Met His Arg Ala Asn
 65 70 75 80
 Arg Ala Phe Leu Glu Ile His Phe His Arg His His Pro Ala Val Val
 85 90 95
 Arg Gln Asn Thr Thr Arg His Ala Val Ala Gln Ile Leu Lys Arg Gly
 100 105 110
 Leu Phe Met Glu Asn Lys His Ile Phe Ala Leu Leu Cys Asn Glu Thr
 115 120 125
 Leu Phe Gln Leu Thr Tyr Leu Thr Arg Arg Glu Lys Glu Thr Phe Ser
 130 135 140
 Gln Ile Thr Gly Lys Ala Ile Thr Ser Leu Leu His Trp Val Lys Arg
 145 150 155 160
 Thr Gly Gly Lys Met Lys Thr Ile Gly Leu Leu Gly Gly Met Ser Trp
 165 170 175
 Glu Ser Thr Ile Pro Tyr Tyr Arg Leu Ile Asn Glu Gly Val Lys Gln
 180 185 190
 Arg Leu Gly Gly Leu His Ser Ala Ser Leu Leu Leu His Ser Val Asp
 195 200 205
 Phe His Glu Ile Glu Ala Cys Gln Ser Ser Gly Glu Trp Asp Lys Ala
 210 215 220
 Gly Gln Ile Leu Ala Asp Ala Ala Leu Gly Leu Glu Arg Ala Gly Ala
 225 230 235 240
 Gln Gly Ile Leu Leu Cys Thr Asn Thr Met His Lys Val Ala Ser His
 245 250 255
 Ile Glu Asp Arg Cys Ser Leu Pro Phe Leu His Ile Ala Asp Ala Thr
 260 265 270
 Gly Arg Ala Ile Arg Thr Ala Gly Met Thr Arg Val Ala Leu Leu Gly
 275 280 285
 Thr Arg Tyr Thr Met Glu Gln Asp Phe Tyr Arg Gly Arg Leu Ser Ser
 290 295 300
 Gln Phe Gly Ile Glu Ser Leu Ile Pro Glu Glu Ala Asp Arg Ala Arg
 305 310 315 320
 Ile Asn Gln Ile Ile Phe Asp Glu Leu Cys Leu Gly Thr Phe Ser Glu
 325 330 335
 Ala Ser Arg Ala Trp Tyr Val Ser Val Ile Glu Lys Leu Ala Gln Gln
 340 345 350
 Gly Ala Glu Gly Val Ile Phe Gly Cys Thr Glu Ile Gly Leu Leu Val
 355 360 365
 Pro Ala Asp Arg Ser Pro Ile Ser Val Phe Asp Thr Ala Ala Ile His
 370 375 380

jc530 U.S. PTO
 09/252691
 02/18/99

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<210> 7555
<211> 455
<212> PRT
<213> Enterobacter cloacae
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Ala 1	Cys	Ser	Ile	Ser 5	Phe	Leu	His	Arg	Leu 10	Thr	Ile	Lys	Arg	Tyr 15	Phe
Leu	Phe	Ser	Ser 20	Gly	Tyr	Gly	Val	Met 25	Ile	Lys	Asn	Arg	Phe 30	Pro	Glu
Thr	Thr	Met 35	Pro	Arg	Pro	Leu	Asn 40	Gln	Thr	Glu	Thr	Asp 45	Leu	Asn	Ala
Asp	Asn 50	Leu	Leu	Arg	Leu	Pro 55	Ala	Glu	Phe	Gly	Cys 60	Pro	Val	Trp	Val
Tyr 65	Asp	Ala	Gln	Ile 70	Val	Arg	Glu	Lys	Ile 75	Ala	Leu	His	Gln	Phe 80	
Asp	Val	Val	Arg	Phe 85	Ala	Gln	Lys	Ala	Cys 90	Ser	Asn	Ile	His	Ile 95	Leu
Arg	Leu	Met	Arg 100	Glu	Gln	Gly	Val	Lys 105	Val	Asp	Ser	Val	Ser	Leu	Gly
Glu	Ile	Glu 115	Arg	Ala	Leu	Val	Ala 120	Gly	Phe	Asp	Pro	Lys 125	Ala	Asp	Ser
Asp	Ala 130	Ile	Val	Phe	Thr	Ala 135	Asp	Leu	Ile	Asp	Asp 140	Ala	Thr	Leu	Ala
Arg 145	Val	His	Glu	Leu 150	Gln	Ile	Pro	Val	Asn 155	Ala	Gly	Ser	Val	Asp	Met 160
Leu	Glu	Gln	Leu 165	Gly	Gln	Val	Ser	Pro	Gly 170	His	Arg	Val	Trp	Leu	Arg
Val	Asn	Pro	Gly 180	Phe	Gly	His	Gly	His 185	Ser	Gln	Lys	Thr	Asn	Thr	Gly
Gly	Glu	Asn 195	Ser	Lys	His	Gly	Ile 200	Trp	Tyr	Ala	Asp	Met 205	Pro	Ala	Ala
Leu	Glu 210	Val	Leu	Gln	Arg	Tyr	Asn 215	Leu	Lys	Leu	Val	Gly 220	Ile	His	Met
His 225	Ile	Gly	Ser	Gly 230	Val	Asp	Tyr	Gly	His 235	Leu	Glu	Gln	Val	Cys	Gly 240
Ala	Met	Val	Arg	Gln 245	Val	Ile	Asp	Phe	Gly 250	Gln	Asp	Leu	Glu	Ala	Ile
Ser	Ala	Gly	Gly 260	Gly	Leu	Ser	Ile	Pro 265	Tyr	Arg	Glu	Gly	Glu	Glu	Ala
Ile	Asp	Thr 275	Asp	His	Tyr	Tyr	Gly 280	Leu	Trp	Ser	Ala	Ala	Arg	Asp	Arg
Ile	Ala 290	Ala	His	Leu	Gly	His	Ala 295	Val	Lys	Leu	Glu	Ile	Glu	Pro	Gly
Arg 305	Phe	Leu	Val	Ala 310	Glu	Ala	Gly	Val	Leu	Val	Ala	Gln	Val	Arg	Ser
Val	Lys	Glu	Met	Gly 325	Ser	Arg	His	Phe	Val 330	Leu	Ile	Asp	Ala	Gly	Phe
Asn	Asp	Leu	Met 340	Arg	Pro	Ser	Met	Tyr 345	Gly	Ser	Tyr	His	His	Ile	Thr
Ala	Leu	Ala 355	Ala	Asp	Gly	Arg	Asp 360	Leu	Val	Asn	Ala	Pro	Arg	Ile	Glu
Thr	Val 370	Val	Ala	Gly	Pro	Leu	Cys 375	Glu	Ser	Gly	Asp	Val	Phe	Thr	Gln
Gln 385	Glu	Gly	Gly	Lys	Val	Glu	Thr	Arg	Ser	Leu	Pro	Glu	Val	Lys	Pro
Gly	Asp	Tyr	Leu	Val 405	Leu	His	Asp	Thr	Gly 410	Ala	Tyr	Gly	Ala	Ser	Met

Ser Ser Asn Tyr Asn Ser Arg Pro Leu Leu Pro Glu Val Leu Phe Asp
 420 425 430
 Asn Gly Val Ala Arg Leu Ile Arg Arg Arg Gln Thr Ile Gln Glu Leu
 435 440 445
 Leu Ala Leu Glu Leu Val
 450 455

<210> 7556

<211> 310

<212> PRT

<213> Enterobacter cloacae

<400> 7556

Arg Ala Trp Leu Lys Arg Gln Asn Ser Lys Met Arg Glu Ser Val His
 1 5 10 15
 Thr Asn Thr Ser Ile Trp Ser Lys Gly Met Met Ala Val Ile Ala Ala
 20 25 30
 Gln Phe Leu Ser Ala Phe Gly Asp Asn Ala Leu Leu Phe Ala Thr Leu
 35 40 45
 Ala Leu Leu Lys Ala Glu Phe Tyr Pro Asp Trp Ser Gln Pro Ile Leu
 50 55 60
 Gln Met Val Phe Val Gly Ala Tyr Ile Val Phe Ala Pro Phe Val Gly
 65 70 75 80
 Gln Val Ala Asp Ser Phe Pro Lys Gly Arg Val Met Met Phe Ala Asn
 85 90 95
 Ser Leu Lys Leu Leu Gly Ala Ala Ser Ile Cys Phe Gly Ile Asn Pro
 100 105 110
 Phe Val Gly Tyr Thr Leu Val Gly Ile Gly Ala Ala Ala Tyr Ser Pro
 115 120 125
 Ala Lys Tyr Gly Ile Leu Gly Glu Leu Thr Thr Gly Asp Lys Leu Val
 130 135 140
 Lys Ala Asn Gly Leu Met Glu Ser Ser Thr Ile Ala Ala Ile Leu Leu
 145 150 155 160
 Gly Ser Val Ala Gly Gly Val Leu Ala Asp Trp His Val Leu Ala Ala
 165 170 175
 Leu Gly Ile Cys Ala Leu Met Tyr Gly Gly Ala Val Ile Ala Asn Leu
 180 185 190
 Phe Ile Pro Lys Leu Ala Val Ala Arg Pro Gly Gln Ser Trp Arg Phe
 195 200 205
 Gly Pro Met Thr Gly Ser Phe Phe Asn Ala Cys Arg Val Leu Trp Arg
 210 215 220
 Asn Gly Glu Thr Leu Phe Ser Leu Met Gly Thr Ser Met Phe Trp Gly
 225 230 235 240
 Ala Gly Val Thr Leu Arg Phe Leu Leu Val Leu Trp Val Pro Val Ala
 245 250 255
 Leu Gly Ile Thr Asp Asn Ala Thr Pro Thr Tyr Leu Asn Ala Met Val
 260 265 270
 Ala Val Arg Ile Val Val Arg Ala Gly Ala Ala Ala Lys Leu Val Thr
 275 280 285
 Leu Glu Asn Arg Pro Arg Ala Ala Cys Leu Pro Gly Ile Leu Asp Trp
 290 295 300
 Gly Pro Ala Phe Cys Ser
 305 310

<210> 7557

<211> 180

<212> PRT

<213> Enterobacter cloacae

<400> 7557

Ser Arg Gly Arg Ile Lys Met Gln Tyr Thr Arg Leu Gly Lys Ser Asp

```

1           5           10           15
Leu Leu Val Ser Arg Ile Cys Met Gly Cys Met Gly Phe Gly Asp Pro
20           25           30
Leu Thr Gly Gln His Arg Trp Thr Leu Asp Glu Thr Ala Ser Arg Asp
35           40           45
Ile Ile Arg Tyr Gly Leu Glu Lys Gly Ile Asn Phe Tyr Asp Thr Ala
50           55           60
Ile Ala Tyr Gln Asn Gly Ser Ser Glu Arg Tyr Val Gly Arg Ala Leu
65           70           75           80
Arg Glu Met Ala Lys Arg Glu Asp Val Val Leu Ala Thr Lys Phe Leu
85           90           95
Pro Arg Thr Ala Ala Gln Ile Ala Ala Gly Ile Gly Gly Lys Glu Ala
100          105          110
Ile Ala Arg Ser Leu Asp Gln Ser Leu Gln Asn Leu Gly Met Asp Tyr
115          120          125
Ile Asp Leu Tyr Ile Tyr His Ile Trp Asp Tyr Asn Thr Pro Val Ile
130          135          140
Glu Val Leu Glu Ala Leu His Ala Ala Val Thr Ala Gly Lys Val Arg
145          150          155          160
Ala Ile Gly Ile Ser Asn Cys Tyr Ala Trp Gln Leu Ala Lys Ala Asn
165          170          175
Ala Leu Ala
180

```

<210> 7558

<211> 121

<212> PRT

<213> Enterobacter cloacae

<400> 7558

```

Arg Glu Gly Leu Thr Ala Phe Val Ser Val Gln Ser His Tyr Asn Leu
1           5           10           15
Ile Met Arg Glu Asp Glu Arg Glu Leu Phe Gly Leu Cys Ala Glu Asp
20           25           30
Asp Ile Ala Met Thr Pro Tyr Ser Ala Leu Ala Ser Gly Arg Leu Ser
35           40           45
Arg Lys Glu Gly His Thr Arg Ala Ser Glu Asp Ala Tyr Ala Arg
50           55           60
Gly Lys Tyr Asp Ser Thr Ala Glu Gln Asp Arg Ser Ile Ile Glu Arg
65           70           75           80
Val Ala Glu Leu Ala Glu Arg His Gln Val Ser Met Thr Glu Ile Ser
85           90           95
Leu Ala Trp Leu Leu Thr Lys Val Thr Ser Pro Val Val Gly Ala Arg
100          105          110
Lys Lys Ile Thr Ser Met Ala Arg
115          120

```

<210> 7559

<211> 203

<212> PRT

<213> Enterobacter cloacae

<400> 7559

```

Thr Arg Ile Tyr Arg Val Leu Cys Gln Gln Gly Met Pro Leu Arg Leu
1           5           10           15
Leu Ser Ile Tyr Asn Ser His Leu Arg Asn Thr Met His Ile Arg Lys
20           25           30
Gly Leu Ser Thr Asp Leu Ala Arg Leu Glu Cys Cys Asp Phe Ser Phe
35           40           45
Thr Val Asp Glu Ile Ala Arg Glu Pro Phe Leu Asn Gly Asp Leu His
50           55           60

```



```

Ile Glu Ala Leu Thr Glu Pro Tyr Leu Lys Thr Tyr Glu Leu Asp Leu
65          70          75          80
Gln Thr Leu Glu Asn His Cys Val Asn Pro Asp Ser Ile Phe Leu Ile
      85          90          95
Ala Glu Thr Asp Asp Gly Glu Ile Ala Gly Phe Ile Thr Ala Ser Cys
      100        105        110
Asn Trp Asn Lys Phe Ile Ser Val Asp Tyr Ile Ala Val Glu Arg Ser
      115        120        125
Lys Arg Arg Thr Gly Ala Ala His Lys Leu Met Ser Ala Thr His Val
      130        135        140
Trp Ala Arg Ser Leu Asn Ala Pro Gly Leu Arg Leu Glu Thr Gln Asn
145          150        155        160
Val Asn Val Ser Ala Cys Leu Phe Tyr Arg His Tyr Gly Phe Ile Leu
      165        170        175
Gly Gly Tyr Asp Arg Tyr Leu Tyr Asn Ala Leu Pro Glu Lys Asp Glu
      180        185        190
Val Ala Leu Phe Trp Tyr Tyr Met Leu Ala
      195        200

```

<210> 7560

<211> 197

<212> PRT

<213> Enterobacter cloacae

<400> 7560

```

Arg Leu Ile Leu Glu Leu Thr Ile Lys Glu Ala Gly Met Ser Thr Gly
1          5          10          15
Asn Asn His Thr Leu His Tyr Pro Arg Pro Pro Phe Ala Glu Gln Pro
      20          25          30
Gln Arg Ala Pro Gly Leu Ala Ser Glu Met Lys Pro Ile Pro Asp His
      35          40          45
Gly Glu Thr Ser Tyr Ile Gly Ser Gly Lys Leu Ala Gly Lys Lys Ala
      50          55          60
Leu Ile Thr Gly Gly Asp Ser Gly Ile Gly Arg Ala Val Ala Ile Ala
65          70          75          80
Tyr Ala Arg Glu Gly Ala Asp Val Ala Ile Gly Tyr Leu Pro Glu Glu
      85          90          95
Glu Ser Asp Ala Ala Ser Val Ile Ala Leu Ile Gln Ala Glu Gly Arg
      100        105        110
Lys Ala Val Ala Ile Pro Gly Asp Ile Arg Val Glu Ser Phe Cys Asp
      115        120        125
Thr Leu Val Glu Lys Ala Val Ala Glu Leu Gly Gly Leu Asp Ile Leu
      130        135        140
Val Asn Asn Ala Gly Arg Gln Gln Tyr Cys Glu Ser Ile Asp Asp Leu
145          150        155        160
Thr Thr Ala Asp Phe Asp Ala Thr Phe Lys Thr Asn Val Tyr Ala Pro
      165        170        175
Phe Trp Ile Thr Lys Ala Ala Leu Arg Leu His Pro Arg Glu Arg Ala
      180        185        190
Arg Ser Arg Ala
      195

```

<210> 7561

<211> 403

<212> PRT

<213> Enterobacter cloacae

<400> 7561

```

Gly Gly Ser Gln Pro Gly Trp Gly Ile Pro Ser Gly Gly Leu Gly Arg
1          5          10          15
Phe Ile Gln Lys Pro Pro Asn Cys Ser Glu Asn Val Leu Met Asp Gly

```

```
<210> 7562
<211> 358
<212> PRT
<213> Enterobacter cloacae
```

<400> 7562
 Ser Ala Ser Leu Leu Leu Leu Cys Met Lys Gly Glu Asn Met Lys Ile
 1 5 10 15
 Ile Cys Leu Glu His Tyr Leu Asp Ser Glu Leu Gly Arg Ala Cys
 20 25 30
 Met Pro Val Ala Leu Glu Gln Ala Pro Phe Leu Gly Asp Trp Gly Lys

```

      35              40              45
Thr Val Ala Asp Gly His Asn Pro Asp Arg Ser Arg Pro Gln Ile Glu
  50              55              60
Lys Asn Ala Leu Ile Asn Ala Lys Gly Ala Asp Leu Gly Ser Arg Arg
  65              70              75              80
Leu Arg Asp Met Asp Glu Ala Gly Ile Thr Leu Gln Ile Leu Ser Val
      85              90              95
Gly Gly Phe Pro Gln Leu Ala Pro Gly Asp Glu Ala Val Thr Leu Asn
      100              105              110
Thr Ala Ala Asn Asp Arg Leu Ala Gly Ala Val Arg Asn His Pro Asp
      115              120              125
Arg Phe Ala Ala Phe Ala Thr Leu Pro Trp Ala Gln Pro Glu Glu Ala
      130              135              140
Glu Lys Glu Leu Val Arg Ala Val Glu Lys Leu Gly Phe Lys Gly Ala
      145              150              155              160
Leu Leu Asn Gly Arg Pro Ser Ser Cys Phe Leu Asp His Pro Asp Tyr
      165              170              175
Asp Ser Leu Leu Ser Arg Phe Asn Lys Leu Asn Val Pro Leu Tyr Leu
      180              185              190
His Pro Gly Leu Pro Leu Lys Ser Val Gln Gln Ala Tyr Phe Thr Gly
      195              200              205
Phe Asn Ala Glu Val Asn Ala Arg Leu Ser Met Phe Gly Trp Gly Trp
      210              215              220
His His Glu Ala Gly Ile His Leu Leu Arg Leu Met Leu Ser Gly Ala
      225              230              235              240
Phe Asp Lys Tyr Pro His Leu Gln Val Ile Ser Gly His Trp Gly Glu
      245              250              255
Met Leu Pro Phe Trp Leu Gln Arg Leu Asp Asp Ser Leu Pro Leu Ala
      260              265              270
Ala Thr Gly Leu Ser Arg Thr Leu Thr Arg Thr Phe Gln Glu His Val
      275              280              285
Tyr Val Thr Pro Ser Gly Met Leu Thr Leu Pro His Phe Gln Phe Ile
      290              295              300
Tyr Ala Leu Met Gly Ala Asp Arg Ile Leu Phe Ser Val Asp Tyr Pro
      305              310              315              320
Tyr Gln Thr Leu Asp Gly Val Lys Thr Phe Ile Asp Ser Leu Pro Val
      325              330              335
Asn Lys Ala Glu Lys Glu Ala Ile Ala Phe Arg Asn Ala Glu Arg Leu
      340              345              350
Leu Gly Ile Thr Ala
      355

```

<210> 7563

<211> 194

<212> PRT

<213> Enterobacter cloacae

<400> 7563

```

Leu Ile Glu Met Lys Asn Ile Leu Ile Val Ser Gly His Pro Glu Leu
  1              5              10              15
Thr His Ser Val Ala Asn Ala Thr Ile Leu Asp Glu Val Ala Thr Ala
      20              25              30
Leu Pro Asp Ala Glu Ile Arg Arg Leu Asp Trp Leu Tyr Pro Asp Gly
      35              40              45
Lys Phe Asn Ile Ala Ala Glu Gln Glu Ser Leu Leu Arg Ala Asp Val
      50              55              60
Ile Val Trp Gln Phe Pro Phe Ser Trp Tyr Gly Leu Pro Gly Leu Met
      65              70              75              80
Lys Gln Trp Leu Asp Glu Val Phe Val His Gly Phe Ala His Gly Ser
      85              90              95
Thr Ala Lys Leu Gly Gly Lys Lys Leu Leu Leu Ser Phe Thr Thr Gly

```

```

      100              105              110
Ala Pro Gln Ala Leu Tyr Thr Ala Asp Gly Phe Phe Gly His Ala Ile
      115              120              125
Glu Glu Tyr Leu Ile Pro Phe Glu Thr Thr Ala Lys Leu Cys Asn Leu
      130              135              140
Glu Leu Leu Glu Pro Val Tyr Thr Cys Gly Ile Ser Tyr Ala Asp Arg
145              150              155              160
Asp Ala Asp Lys Leu Ala Gln Gln Lys Thr Leu Ala Arg Glu His Ala
      165              170              175
Leu Arg Leu Val His Leu Leu Asn Ser Val Val Asn Asn Pro Glu Gly
      180              185              190
Glu

```

<210> 7564

<211> 214

<212> PRT

<213> Enterobacter cloacae

<400> 7564

```

Arg Phe Thr Val Leu Leu Arg Gln Arg Arg Phe Met Met Val Leu Leu
1              5              10              15
Gln Arg Arg Ala Ala Ala Leu Phe Leu Phe Ala Phe Ile Phe Leu Met
      20              25              30
Pro Ala Ser His Ala His Ser Arg Glu Lys Thr Asp Ile Lys Thr Leu
      35              40              45
Val Ile Val Ser His Pro Tyr Pro Glu Arg Ser Val Leu Thr Lys Gly
50              55              60
Leu Gln Glu Ala Ala Glu Ser Leu Glu Gly Val Thr Val Arg Asn Leu
65              70              75              80
Glu Thr Leu Tyr Gly Tyr Asp Thr Arg Arg Ile Asn Gly Asp Ala Glu
      85              90              95
Arg Lys Met Met Arg Glu His Arg Arg Val Val Phe Ile Phe Pro Thr
      100              105              110
His Trp Phe Asn Ile Thr Pro Met Met Lys Ala Trp Leu Asn Glu Thr
      115              120              125
Trp Gly Ser Val Gly Pro Gly Leu Trp Gln Gly Lys Glu Met Phe Ile
130              135              140
Val Ser Thr Ala Ala Gly Gly Ser Ser Thr Tyr Gly Thr Asp Gly Arg
145              150              155              160
Ile Gly Val Ser Leu Ala Asp Val Phe Leu Pro Met Lys Ala Ser Ala
      165              170              175
Leu His Ala Gly Met Thr Trp Leu Pro Pro Leu Val Phe Glu Ser Ala
      180              185              190
Ser Ser Asp Arg Leu Pro Ser Tyr Gln His Gln Leu Ile Glu Arg Leu
195              200              205
Lys Gln Pro Phe Gln
210

```

<210> 7565

<211> 254

<212> PRT

<213> Enterobacter cloacae

<400> 7565

```

Asn Val Leu Asn Ser His Phe Ser Lys Arg Ile Ile Val Lys Lys Thr
1              5              10              15
Leu Met Leu Leu Ile Cys Met Leu Ile Ser Ser Pro Val Phe Ala Thr
      20              25              30
Lys Leu Asp Ala Pro Asp Lys Arg Val Met Asn Ile Phe Glu Leu Gly
35              40              45

```

```

Val Arg Pro Asp Arg Asp Lys Asp Phe Ala Asp Val Ala Arg Gln Thr
 50          55          60
Ile Ser Ala Ser Val Asp His Glu Ala Gly Thr Leu Ala Met Tyr Ala
65          70          75          80
Leu His Arg Ser Asp Asn Pro Arg Gln Ala Phe Met Val Glu Leu Tyr
          85          90          95
Glu Asn Glu Asn Ala Tyr Arg Lys His Leu Asn Ala Glu Pro Tyr Lys
          100         105         110
Ala Phe Ala Asp Arg Ala Pro Asp Ile Ile Asp Gln Lys Asn Lys Ile
          115         120         125
Thr Leu Glu Pro Gln Phe Leu Gly Asp Lys His Ile Ile Pro Asp Glu
          130         135         140
Arg Thr Ile Asn Asn Leu Val Ile Val Glu Val Lys Pro Glu Phe Gln
          145         150         155         160
Thr Glu Phe Lys Asn Ile Val Leu Pro Glu Met Ala Glu Ser Leu Lys
          165         170         175
Val Glu Lys Gly Val Leu Ala Met Tyr Ala Ala Thr Asp Ser Gln Thr
          180         185         190
Pro Asn Arg Trp Tyr Phe Tyr Glu Ile Tyr Ala Ser Glu Glu Ala Tyr
          195         200         205
Gln Leu His Arg Gln Thr Pro His Phe Arg Asp Tyr Leu Arg Gln Thr
          210         215         220
Ala His Met Ser Ala Ser Lys Asn Ala Ile Pro Val Lys Pro Val Phe
          225         230         235         240
Leu Arg Asn Lys Ser Gly Ile Lys Gln Asp Pro His Arg
          245         250

```

<210> 7566

<211> 273

<212> PRT

<213> Enterobacter cloacae

<400> 7566

```

Pro Val Arg Ile Asn Met Lys Ser Val Ile Ala Ala Ala Ala Met Ser
1          5          10          15
Leu Val Ile Ser Asp Phe Ala Thr Ala Glu Glu Thr Arg Gly Lys Ala
          20          25          30
Met Met Lys Ile Glu Pro Ser Thr Ile Ser Glu Ala Asp Ile Arg Ser
          35          40          45
Val Ser Pro Ala Leu Ala Arg Phe Gly Arg Glu Ala Ile Thr Glu Asp
          50          55          60
Leu Trp Thr Arg Asp Ala Leu Ser Pro Arg Asp Arg Ser Met Val Thr
          65          70          75          80
Val Ala Met Leu Ile Ala Arg Asn Gln Pro Gly Asp Leu Lys His Tyr
          85          90          95
Met Asp Ile Ala Leu Asp Asn Gly Val Thr Pro Ala Glu Leu Ser Glu
          100         105         110
Ile Ile Thr His Leu Ala Phe Tyr Ser Gly Trp Pro Asn Ala Met Ser
          115         120         125
Ala Val Ser Val Thr Lys Ala Val Phe Glu Thr Arg Gly Val Thr Ala
          130         135         140
Asp Ala Leu Pro Asp Ala Ser Pro Asp Leu Leu Pro Leu Asn Gln Gln
          145         150         155         160
Ala Glu Lys Gln Arg Ser Glu Thr Val Glu Lys Asn Val Gly Pro Ile
          165         170         175
Ser Pro Gly Leu Val Lys Phe Thr Ala Asp Pro Leu Phe Leu Asp Leu
          180         185         190
Trp Gln Arg Pro Ala Leu Lys Pro Arg Asp Arg Ser Leu Ile Thr Val
          195         200         205
Ser Ala Leu Ile Ala Ser Gly Gln Ser Ala Gln Ile Gly Tyr His Leu
          210         215         220

```

```

Asn Arg Ala Met Asp Asn Gly Leu Ser Val Glu Glu Ala Gly Glu Ile
225          230          235          240
Val Thr Gln Ala Ala Phe Tyr Ala Gly Trp Pro Asn Ala Phe Thr Ala
          245          250          255
Ala Pro Val Val Gly Glu Val Leu Asn Asn Arg Ser Ser Ser Lys Arg
          260          265          270

```

<210> 7567

<211> 497

<212> PRT

<213> Enterobacter cloacae

<400> 7567

```

Gly Val Ser Cys Asn Asp Lys Val Gln Met Val Arg Leu Pro Pro Cys
1          5          10          15
Lys Ser His Leu Tyr Ser Phe Val Ile His Thr Leu Phe Ser Glu Asp
          20          25          30
Asn Leu Met Thr Leu Phe Ser Ser Gln Pro Gly Asp Glu Gly Leu Pro
          35          40          45
Gly Pro Ala Arg Ala Arg Val Met Ala Ala Ile Met Thr Thr Thr Leu
          50          55          60
Met Gly Val Phe Asp Gly Thr Met Ile Asn Ile Ala Leu Pro Ser Met
          65          70          75          80
Ala Gln Glu Met Gln Val Pro Ala Ser Ile Ala Val Trp Phe Ala Asn
          85          90          95
Gly Tyr Leu Leu Ala Ala Ala Met Ser Leu Ala Ile Phe Ala Ala Leu
          100          105          110
Ala Ala Arg Leu Gly Tyr Arg Pro Val Phe Leu Ala Gly Leu Thr Thr
          115          120          125
Phe Thr Leu Thr Ser Leu Gly Cys Ala Leu Ala Lys Thr Pro Glu Val
          130          135          140
Leu Ile Gly Met Arg Val Leu Gln Gly Ile Gly Gly Ala Ala Thr Leu
          145          150          155          160
Ser Ile Ala Pro Ala Ile Leu Arg Ser Val Phe Pro Gly Arg Leu Leu
          165          170          175
Gly Arg Ile Leu Gly Leu His Ala Leu Leu Ile Ala Ser Ser Ser Ala
          180          185          190
Ile Gly Pro Val Leu Gly Gly Thr Ile Leu His Thr Leu Ser Trp Gln
          195          200          205
Trp Leu Phe Ala Ile Asn Val Val Pro Gly Thr Leu Ala Leu Leu Leu
          210          215          220
Ala Val Lys Ala Leu Pro Arg Asp Ala Val Arg Lys Gln Ala Pro Phe
          225          230          235          240
Asp Thr Pro Gly Ala Ile Leu Ser Ala Leu Leu Leu Gly Ser Thr Ile
          245          250          255
Met Ala Ala Asn Ser Leu Gln Glu Ala Thr Tyr His Pro Gly Ser Leu
          260          265          270
Cys Trp Thr Val Leu Ala Ala Leu Ser Gly Met Ala Phe Ile Trp Gln
          275          280          285
Ile Arg Arg Thr Asp Asn Pro Leu Leu Pro Pro Thr Met Phe Lys Asn
          290          295          300
Glu Arg Phe Thr Leu Ala Ala Phe Thr Ser Met Ile Ala Phe Val Ser
          305          310          315          320
Gln Gly Ile Thr Phe Ile Ala Leu Pro Phe Leu Phe Gln Ser Glu Tyr
          325          330          335
Gly Tyr Ser Pro Val Leu Ser Ala Leu Leu Phe Thr Pro Trp Pro Leu
          340          345          350
Gly Ile Val Leu Ile Ala Pro His Ala Gly Arg Trp Ala Asp Thr Ile
          355          360          365

```

```

Ser Ala Pro Ala Ile Ser Thr Leu Gly Leu Val Ile Phe Val Val Gly
 370          375          380
Leu Ile Leu Leu Ala Thr Leu Pro Asp Arg Pro Thr Met Trp Asp Ile
385          390          395          400
Cys Leu Arg Ser Leu Val Cys Gly Met Gly Phe Gly Cys Phe Gln Ser
          405          410          415
Pro Asn Asn Arg Glu Met Leu Ser Asn Val Ile Arg Glu His Ala Ser
          420          425          430
Tyr Ala Ser Gly Val Leu Ser Ile Met Arg Thr Phe Gly Gln Cys Leu
          435          440          445
Gly Ala Ala Ala Val Ala Val Leu Leu Ala Ala Asp Glu Arg Ser Ile
          450          455          460
His Val Ala Leu Trp Val Ala Ala Ala Ala Ser Ala Val Ala Val Val
465          470          475          480
Val Ser Ala Ser Arg Leu Arg Lys Ile Thr His Pro Ala Glu Thr Gly
          485          490          495

```

```

<210> 7568
<211> 183
<212> PRT
<213> Enterobacter cloacae

```

```

<400> 7568
His Ala Arg Cys Pro Gly Arg Gly Arg Ser Cys His Arg Lys Thr Ala
1          5          10          15
Gly Lys Glu Thr Ala Val Gly Arg Val Thr Ala Pro Glu Pro Leu Ser
          20          25          30
Ser Val His Gln Leu Ala Glu Phe Val Ser Gly Glu Ala Val Leu Asp
          35          40          45
Glu Trp Leu Lys Gln Arg Gly Leu Lys Asn Gln Ala Leu Gly Ala Ala
          50          55          60
Arg Thr Phe Val Ile Cys Lys Thr Gly Thr Lys Gln Val Ala Gly Phe
65          70          75          80
Tyr Ser Leu Ala Thr Gly Ser Val Asn His Thr Gln Ala Thr Gly Asn
          85          90          95
Leu Arg Arg Asn Met Pro Asp Pro Ile Pro Val Ile Ile Leu Ala Arg
          100          105          110
Leu Ala Val Asp Val Ser Leu Arg Gly Asn Gly Leu Gly Ala Asp Leu
          115          120          125
Leu His Asp Ala Val Leu Arg Cys Tyr Arg Val Ala Glu Asn Ile Gly
          130          135          140
Val Arg Ala Ile Met Val His Ala Leu Thr Glu Glu Ala Lys Ala Phe
145          150          155          160
Tyr Ile His His Gly Phe Lys Ala Ser Gln Thr Gln Glu Arg Thr Leu
          165          170          175
Phe Leu Arg Leu Pro Gln
          180

```

```

<210> 7569
<211> 828
<212> PRT
<213> Enterobacter cloacae

```

```

<400> 7569
Trp Arg Ser Ser Ala Met Ile Pro Ser Ser Thr Tyr Arg Ile Gln Phe
1          5          10          15
Arg Asn Gly Met Thr Phe Asp Arg Val Ala Asp Leu Ile Pro Tyr Met
          20          25          30
Lys Asp Leu Gly Ile Ser His Leu Tyr Ala Ser Pro Val Phe Thr Ala

```

		35					40					45				
Thr	Thr	Asn	Ser	Thr	His	Gly	Tyr	Asp	Val	Thr	Asp	Pro	Asn	Glu	Ile	
	50					55					60					
Asp	Pro	Ala	Ile	Gly	Gly	Arg	Glu	Gly	Phe	Asp	Arg	Met	Ala	Ala	Ala	
65				70					75					80		
Leu	Lys	Gln	Ala	Gly	Met	Gly	Leu	Ile	Leu	Asp	Ile	Val	Pro	Asn	His	
				85					90					95		
Met	Ser	Thr	Ser	Leu	Glu	Asn	Arg	Trp	Trp	Arg	Asp	Val	Ile	Glu	His	
			100					105					110			
Gly	Gly	Gln	Ser	Arg	Tyr	Ala	Ala	Tyr	Phe	Asp	Ile	Asp	Trp	Ser	Arg	
		115				120						125				
Pro	Leu	Thr	Leu	Pro	Phe	Leu	Gly	Asp	Thr	Phe	Glu	Ala	Glu	Leu	Glu	
	130					135					140					
Arg	Gly	Thr	Ile	Thr	Leu	Lys	Arg	Asp	Ser	Val	Thr	Asn	Ser	Ala	Ala	
145				150						155				160		
Leu	Val	Tyr	Tyr	Asp	Thr	Ala	Tyr	Pro	Leu	Asn	Pro	Gly	Thr	Tyr	Ala	
				165					170					175		
Glu	Gly	Lys	Ser	Ile	Ala	Glu	Ile	His	Glu	Ala	Gln	Ser	Trp	Arg	Leu	
		180						185					190			
Met	Ser	Trp	Arg	Glu	Ala	Pro	Lys	Gln	Leu	Ser	Trp	Arg	Arg	Phe	Phe	
		195				200						205				
Glu	Ile	Thr	Gly	Leu	Val	Gly	Val	Arg	Val	Glu	Asp	Glu	Ala	Val	Phe	
	210					215					220					
Ala	Asp	Thr	His	His	Leu	Ile	Leu	Glu	Leu	Val	His	Ala	Gly	Val	Val	
225				230						235				240		
Asp	Gly	Leu	Arg	Ile	Asp	His	Val	Asp	Gly	Leu	Ala	Asp	Pro	Leu	Gly	
				245					250					255		
Tyr	Leu	Gln	Arg	Leu	Arg	Ala	Ala	Thr	Gly	Pro	Asp	Cys	Tyr	Ile	Thr	
		260						265				270				
Val	Glu	Lys	Ile	Leu	Ala	Lys	Gly	Glu	Gln	Leu	Pro	Pro	Glu	Trp	Pro	
		275					280					285				
Ile	Ser	Gly	Thr	Thr	Gly	Tyr	Glu	Phe	Ile	Ala	Ser	Leu	Ala	Glu	Val	
	290				295						300					
Leu	Val	Asp	Asp	Thr	Asn	Leu	Ser	Arg	Leu	Glu	Met	Leu	Tyr	Asp	Glu	
305				310						315				320		
Thr	Leu	Gly	Thr	Thr	Val	Asp	Arg	Gln	Ala	Glu	Leu	Arg	Asn	Ala	Lys	
				325				330						335		
Gly	Leu	Met	Thr	Asp	Arg	Asn	Phe	Glu	Gly	Glu	Phe	Thr	Thr	Leu	Leu	
			340					345					350			
Lys	Ile	Ala	Ser	Glu	Leu	Ala	Gly	His	Asn	Gly	Ala	Glu	Val	Glu	His	
		355					360					365				
Asp	Asp	Ile	Arg	His	Ala	Leu	Arg	Glu	Leu	Leu	Ile	Ala	Phe	Pro	Val	
	370					375					380					
Tyr	Arg	Thr	Tyr	Gly	Thr	Ala	Glu	Gly	Leu	Thr	Pro	Pro	Asp	Val	Ala	
385				390												

Gly Glu Asn Leu Ala Arg Trp Arg Gln Met Asn Gln Thr Gln Val Arg
 530 535 540
 Phe Leu Asn Asp Gly Thr Ala Pro Asn Ala Ala Asp Thr Trp Met Ile
 545 550 555 560
 Phe Gln Ala Leu Ala Gly Val Trp Pro Ala Thr Leu Ser Pro Glu Asp
 565 570 575
 Arg Asp Gly Leu Lys Ser Leu Glu Glu Arg Phe Leu Gly Phe Ile Glu
 580 585 590
 Lys Ala Leu Arg Glu Ala Lys Gln Arg Thr Asp Trp Ile Asp Ser Asn
 595 600 605
 Glu Gly Tyr Glu Ser Val Val Leu Asp Tyr Val Arg His Leu Leu Ser
 610 615 620
 Pro Asp Asn Thr Leu Phe Leu Arg Asp Phe Ser Ala Ala Leu Gln Pro
 625 630 635 640
 Phe Ile Arg Ala Gly Leu Met Asn Ser Leu Ser Gln Thr Val Ile Lys
 645 650 655
 Leu Thr Ala Pro Gly Val Pro Asp Ile Tyr Gln Gly Ser Glu Gly Leu
 660 665 670
 Asn Phe Ser Leu Val Asp Pro Asp Asn Arg Arg Glu Pro Asp Phe Ala
 675 680 685
 Ala Leu Ala Glu Asn Leu Ser Val Ala Asp Gly Thr Val Phe Asn Asp
 690 695 700
 Ala Gln Arg Trp Arg Asp Gly Ser Val Lys Gln Tyr Val Thr Ala Thr
 705 710 715 720
 Leu Leu Arg Leu Arg Pro His Tyr Pro Ala Leu Phe Arg Tyr Gly Asp
 725 730 735
 Trp Leu Pro Leu Lys Val Thr Gly Glu Arg Glu Glu Asn Leu Ile Val
 740 745 750
 Tyr Ala Arg Ile Lys Asp Asp Glu Ala Leu Ile Val Ala Val Pro Arg
 755 760 765
 Leu Val Phe Asp Val Thr Asp Asn Ala Leu Leu Trp Ala Asn Thr Ile
 770 775 780
 Val Ala Ile Pro Gln Glu Leu Ala Gly Lys His Tyr Arg Asp Leu Phe
 785 790 795 800
 Thr Gly Glu Arg Arg Leu Leu Pro Asp Thr Leu Asp Leu Thr Ser Glu
 805 810 815
 Lys Gly Cys Leu Leu Val Leu Leu Thr Cys Asp
 820 825

<210> 7570

<211> 697

<212> PRT

<213> Enterobacter cloacae

<400> 7570

Ser Arg Arg Thr Lys Met Pro Lys Asp Thr Thr Phe Glu Ile Arg Ala
 1 5 10 15
 Gly His Gly Gln Gln Leu Gly Ala Asn Tyr Asp Gly Lys Gly Val Asn
 20 25 30
 Phe Ala Leu Phe Ser Ala His Ala Glu Arg Val Glu Leu Cys Leu Phe
 35 40 45
 Asp Pro Ser Gly Lys Thr Glu Ile Ala Arg Leu Glu Leu Pro Glu Tyr
 50 55 60
 Thr His Glu Val Trp His Gly Tyr Val Pro Asp Leu Lys Pro Gly Ala
 65 70 75 80
 Leu Tyr Gly Tyr Arg Val Tyr Gly Pro Tyr Asp Pro Glu Asn Gly His
 85 90 95
 Arg Phe Asn Pro Asn Lys Leu Leu Ile Asp Pro Tyr Ala Arg Glu Leu
 100 105 110
 Val Gly Asp Ile Glu Trp Asn Asp Ala His Phe Gly Tyr Glu Leu Gly
 115 120 125

His Asp Glu Leu Asp Leu Ser Phe Asp Thr Arg Asp Ser Ala Pro Phe
 130 135 140
 Thr Pro Lys Cys Lys Val Ile Asp Pro Asn Ala Val Asp Trp Gln Asp
 145 150 155 160
 Ser Arg Arg Pro Asp Ile Pro Trp Pro His Thr Val Val Tyr Glu Ser
 165 170 175
 His Val Lys Gly Phe Thr Gln Leu Asn Pro Ala Ile Gln Pro Glu Leu
 180 185 190
 Arg Gly Thr Phe Glu Gly Met Gly His Lys Ala Ser Val Glu Tyr Ile
 195 200 205
 Lys Ser Leu Gly Ile Thr Ser Val Glu Leu Leu Pro Val His Trp Phe
 210 215 220
 Pro Asp Asp Gln His Leu Leu Asp Arg Gly Leu Lys Asn Phe Trp Gly
 225 230 235 240
 Tyr Asn Ser Leu Gly Phe Phe Ala Pro Ala Ser Arg Tyr Tyr Gly Pro
 245 250 255
 Ala Gly Ile Gln Gly Phe Arg Asp Met Val Arg Ala Tyr His Asp Ala
 260 265 270
 Gly Ile Glu Val Ile Leu Asp Val Val Tyr Asn His Thr Ala Glu Gly
 275 280 285
 Asn Glu Leu Gly Pro Thr Leu Ser Phe Lys Gly Ile Asp Asn Phe Cys
 290 295 300
 Tyr Tyr Arg Thr Met Pro Asp Gln His Arg Tyr Tyr Ile Asn Asp Thr
 305 310 315 320
 Gly Thr Gly Asn Thr Val Asn Thr Ser His Pro Arg Val Leu Gln Met
 325 330 335
 Val Met Asp Ser Leu Arg Tyr Trp Ala Glu Ser Met Gln Ile Asp Gly
 340 345 350
 Phe Arg Phe Asp Leu Gly Thr Ile Leu Gly Arg Glu Pro Glu Gly Phe
 355 360 365
 Asp Pro Arg Gly Gly Phe Phe Asp Ala Val Thr Gln Asp Pro Val Leu
 370 375 380
 Ser Lys Leu Lys Leu Ile Gly Glu Pro Trp Asp Ile Gly Pro Gly Gly
 385 390 395 400
 Tyr Gln Val Gly Gly Phe Pro Pro Gly Trp Gly Glu Trp Asn Asp Lys
 405 410 415
 Tyr Arg Asp Thr Val Arg Glu Tyr Trp Lys Gly Asp Asn Val Ser Asn
 420 425 430
 Asp Phe Ala Ala Arg Leu Leu Gly Ser Gly Asp Leu Tyr Asp Leu Arg
 435 440 445
 Gly Arg Arg Pro Trp Ala Ser Val Asn Phe Ile Thr Ala His Asp Gly
 450 455 460
 Phe Thr Leu Asn Asp Leu Val Ser Tyr Asn Glu Lys His Asn Ala Asp
 465 470 475 480
 Asn Gly Glu Asp Asn Asn Asp Gly His Asn Asp Asn Arg Ser Tyr Asn
 485 490 495
 Tyr Gly Glu Glu Gly Pro Thr Glu Asn Pro Asp Ile Ile Ala Thr Arg
 500 505 510
 Glu Arg Gln Lys Arg Asn Phe Leu Thr Thr Leu Phe Phe Ser His Gly
 515 520 525
 Thr Pro Met Leu Leu Ala Gly Asp Glu Phe Gly Arg Thr Gln Lys Gly
 530 535 540
 Asn Asn Asn Gly Tyr Cys Gln Asp Ser Glu Ile Ser Trp Val Asn Trp
 545 550 555 560
 Glu Gly Leu Thr Glu Asn Asp Glu Lys Leu Arg Asp Phe Thr Arg Arg
 565 570 575
 Leu Ile Ala Leu Arg Ala Thr Gln Pro Leu Leu Arg Arg Glu Asn Trp
 580 585 590
 Arg Asp Gly Leu Glu Ile Arg Trp Phe Asn Ala Gly Gly Gly Pro Gln
 595 600 605
 Gln Ser Glu Gln Trp Asp Glu Gly Ser Thr Leu Gly Leu Ala Ile Ser

610		615		620
Arg Pro Asp Leu Glu Gln Glu Gly Val Trp Gln Asp Val Leu Met				
625		630		635
Leu Phe Asn Pro Phe Glu Gly Thr Val Pro Phe Gln Ile Pro Gln Phe				
	645		650	655
Gly Glu Gly Gly Trp Val Leu Glu Leu Ser Thr Ser Glu Asp Ala Thr				
	660		665	670
Thr Gly Glu Ile Ile Thr Glu Ser Val Asp Tyr Glu Leu Ala Gly Arg				
	675		680	685
Ser Ile Thr Leu Phe Arg Arg Pro				
690		695		

<210> 7571

<211> 321

<212> PRT

<213> Enterobacter cloacae

<400> 7571

Asn Ala Leu Ser Glu Cys Thr Gly Met Ser Ala Met Thr Asp Pro Asp				
1	5		10	15
Phe Asn Leu Leu Ile Ala Leu Asp Ile Leu Leu Ser Glu Ala Ser Val				
	20		25	30
Ala Gly Ala Ala Arg Arg Leu Asn Leu Ser Thr Ser Ala Met Ser Arg				
	35		40	45
Thr Leu Ser Arg Leu Arg Asp Val Thr Gly Asp Pro Ile Leu Val Arg				
	50		55	60
Ala Gly Arg Asn Met Val Leu Thr Pro Trp Ala Glu Ala Thr Arg Asp				
65	70		75	80
Arg Ala Arg Arg Ala Val His Glu Thr Arg Ala Val Leu Gln Pro Ser				
	85		90	95
Thr Glu Thr Phe Ser Ala Arg Ser Leu Ala Arg Leu Phe Thr Ile Arg				
	100		105	110
Ala Asn Asp Gly Phe Val Val Ala Phe Gly Pro Ala Leu Ile Ala Ala				
	115		120	125
Val Ala Asp Ala Ala Pro Asp Val Cys Ile Arg Phe Ala Pro Lys Pro				
	130		135	140
Glu Lys Thr Ser Arg Tyr Leu Arg Glu Gly Leu Val Asp Leu Glu Ile				
145	150		155	160
Gly Val Gln Ser Asn Met Gly Pro Glu Ile Arg Leu Gln Arg Leu Phe				
	165		170	175
Glu Asp Arg Phe Val Gly Val Val Arg Lys Gly His Pro Leu Ala Asn				
	180		185	190
Gln Ala Glu Ile Gly Val Lys Asp Tyr Val Ala Trp Gly His Val Val				
	195		200	205
Ala Ser Pro Glu Gly Ala Leu His Gly Ser Val Asp Asp Ala Leu Ala				
	210		215	220
Glu Leu Gly Thr Lys Arg Lys Ile Ala Ser Val Val Pro Gly Phe Pro				
225	230		235	240
Thr Ala Leu Ser Val Ala Leu Ala Ser Asp Leu Val Ala Met Ile Pro				
	245		250	255
Ala Leu Tyr Leu Leu Asn Gln Gln Ile Thr Glu Gln Leu His Val Phe				
	260		265	270
Glu Leu Pro Phe Lys Ser Arg Arg Ile Thr Val Ser Gln Met Trp His				
	275		280	285
Pro Arg Met Glu Arg Asp Pro Gly His Arg Trp Leu Arg Glu Gln Ile				
	290		295	300
Leu Ala Ile Cys Gly Val Glu Arg Ser Asp Met Ile Lys Ser Ala Val				
305	310		315	320

<210> 7572
 <211> 98
 <212> PRT
 <213> Enterobacter cloacae

<400> 7572

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Ser Asn Cys Tyr Thr Arg Gly Ile Pro Met Lys Ser Asp Val Gln Leu
1      5      10      15
Asn Leu Arg Ala Lys Glu Ser Gln Arg Ala Leu Ile Asp Ala Ala Ala
20      25      30
Glu Ile Leu His Lys Ser Arg Thr Asp Phe Ile Leu Glu Met Ala Cys
35      40      45
Gln Ala Ala Glu Asn Val Ile Leu Asp Arg Arg Val Phe Asn Phe Asn
50      55      60
Asp Glu Gln Tyr Ala Glu Phe Ile Asp Met Leu Asp Ala Pro Val Ala
65      70      75      80
Asp Asp Pro Ala Ile Glu Lys Leu Leu Ala Arg Lys Pro Gln Trp Asp
85      90      95
Val

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<210> 7573
 <211> 596
 <212> PRT
 <213> Enterobacter cloacae

<400> 7573

```

Met Glu Phe Arg Thr Cys Arg Arg His Trp Gly Ala Glu Phe Ile Ser
1      5      10      15
Asp Asp Val Val Arg Phe Arg Val Trp Ala Glu Gly Gln Lys Asp Leu
20      25      30
Thr Leu Arg Leu Thr Asp Thr Asp Ile Pro Met Ala Ala Val Gly Asp
35      40      45
Gly Trp Phe Gln Ile Asp Val Pro Gly Val Arg His Gly Thr Thr Tyr
50      55      60
Gln Phe Val Leu Gln Asp Gly Met Ala Val Pro Asp Pro Ala Ser Arg
65      70      75      80
Ala Gln Gln Ala Asp Val Asn Gly Pro Ser Val Val Ile Asp Pro Arg
85      90      95
Arg Ser Leu Pro Ala Gln Arg Glu Trp Gln Gly Arg Pro Trp Glu Glu
100     105     110
Thr Val Ile Tyr Glu Leu His Ile Gly Thr Phe Thr Gly Glu Gly Thr
115     120     125
Phe Arg Ser Ala Ile Asp Lys Leu Pro Tyr Leu Ala Glu Leu Gly Ile
130     135     140
Thr Gln Leu Glu Val Met Pro Val Ser Gln Phe Gly Gly Ala Arg Gly
145     150     155     160
Trp Gly Tyr Asp Gly Val Leu Leu Tyr Ala Pro His Ser Ala Tyr Gly
165     170     175
Thr Pro Asp Asp Phe His Ala Phe Ile Asp Ala Ala His Ala Leu Gly
180     185     190
Leu Ser Val Val Leu Asp Ile Val Leu Asn His Phe Gly Pro Glu Gly
195     200     205
Asn Tyr Leu Pro Leu Leu Ser Pro Ala Phe Phe His Gln Asp Arg Met
210     215     220
Thr Pro Trp Gly Asn Gly Ile Ala Tyr Glu Val Glu Ala Val Arg Gln
225     230     235     240
Tyr Ile Ala Glu Ala Pro Leu Phe Trp Leu Ser Glu Tyr His Leu Asp
245     250     255
Gly Leu Arg Phe Asp Ala Ile Asp Gln Ile His Asp Asp Ala Glu Thr
260     265     270

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His Ile Leu Pro Glu Ile Ala Gln Arg Ile Arg Asp Ala Phe Pro Asp
 275 280 285
 Arg His Ile His Leu Thr Thr Glu Asp Ser Arg Asn Val Ile Phe Leu
 290 295 300
 His Pro Arg Asp Glu His Gly Gln Thr Pro Leu Phe Thr Ala Glu Trp
 305 310 315 320
 Asn Asp Asp Phe His Asn Ala Ala His Val Phe Ala Thr Gly Glu Ser
 325 330 335
 His Ala Tyr Tyr Gln Asp Phe Ala Phe Glu Pro Glu Lys Lys Leu Ala
 340 345 350
 Arg Ala Leu Ala Glu Gly Phe Val Tyr Gln Gly Glu Ile Ser Leu Gln
 355 360 365
 Thr Gly Lys Ser Arg Gly Val Glu Cys Arg Glu Gln Pro Pro Gln Phe
 370 375 380
 Phe Val Asp Phe Ile Gln Asn His Asp Gln Val Gly Asn Arg Ala Gln
 385 390 395 400
 Gly Glu Arg Leu Ile Ser Leu Ala Gly Ala Asp Lys Thr Arg Val Leu
 405 410 415
 Phe Ala Ala Leu Leu Ser Pro His Ile Pro Leu Leu Phe Met Gly
 420 425 430
 Glu Glu Tyr Gly Glu Thr His Pro Phe Leu Phe Phe Thr Asp Phe His
 435 440 445
 Gly Asp Leu Ala Lys Ala Val Arg Glu Gly Arg Ala Lys Glu Phe Thr
 450 455 460
 Gly His Ala Gly His Asp Glu Thr Val Pro Asp Pro Asn Asp Leu Asn
 465 470 475 480
 Thr Phe Met Arg Ser Lys Leu Asp Trp Asn Lys Ala Asp Thr Glu Glu
 485 490 495
 Gly Arg Ala Trp Leu His Val Thr Arg Glu Leu Ile Val Leu Arg Gln
 500 505 510
 Arg Phe Ile Val Pro Leu Leu Lys Gln Arg Gly Thr Val Glu Gly Asn
 515 520 525
 Val Leu Gln Thr Ala Leu Gly Met Val Ala Val Ser Trp Arg Phe Pro
 530 535 540
 Ser Gly Thr Leu Ser Leu Ala Leu Asn Ile Gly Lys Lys Pro Leu Ala
 545 550 555 560
 Leu Pro Asp Leu Pro Gly Lys Thr Ile Phe Ser Trp Pro Glu Ala Val
 565 570 575
 Glu Asn Leu Pro Pro Asn Ser Ile Val Val Arg Phe Ala Asp Gly Glu
 580 585 590
 Ala Ala Leu
 595

<210> 7574

<211> 221

<212> PRT

<213> Enterobacter cloacae

<400> 7574

Cys Phe Ile Ser Ala Asp Pro Ala Ser Ser Arg Gly Glu Asp Leu Val
 1 5 10 15
 Gly Lys Lys Val Gly Met Thr Arg Ile Phe Thr Glu Asp Gly Val Ser
 20 25 30
 Ile Pro Val Thr Val Ile Glu Val Ala Asn Arg Val Thr Gln Val
 35 40 45
 Lys Asp Leu Ala Asn Asp Gly Tyr Arg Ala Ile Gln Val Thr Thr Gly
 50 55 60
 Ala Lys Lys Ala Asn Arg Val Thr Lys Pro Glu Ala Gly His Phe Ala
 65 70 75 80
 Lys Ala Gly Val Glu Ala Gly Arg Gly Leu Trp Glu Phe Arg Leu Ala
 85 90 95

Glu Gly Glu Glu Phe Thr Val Gly Gln Asp Ile Ser Val Glu Leu Phe
 100 105 110
 Ala Asp Val Lys Lys Val Asp Val Thr Gly Thr Ser Lys Gly Lys Gly
 115 120 125
 Phe Ala Gly Thr Val Lys Arg Trp Asn Phe Arg Thr Gln Asp Ala Thr
 130 135 140
 His Gly Asn Ser Leu Ser His Arg Val Pro Gly Ser Ile Gly Gln Asn
 145 150 155 160
 Gln Thr Pro Gly Lys Val Phe Lys Gly Lys Lys Met Ala Gly Gln Leu
 165 170 175
 Gly Asn Glu Arg Val Thr Val Gln Ser Leu Asp Val Val Arg Val Asp
 180 185 190
 Ala Glu Arg Asn Leu Leu Leu Val Lys Gly Ala Val Pro Gly Ala Thr
 195 200 205
 Gly Ser Asp Leu Ile Val Lys Pro Ala Val Lys Ala
 210 215 220

<210> 7575

<211> 123

<212> PRT

<213> Enterobacter cloacae

<220>

<221> UNSURE

<222> (101)

<400> 7575

Arg Arg Lys Gly Ile Ala Met Glu Leu Val Leu Lys Asp Ala Gln Ser
 1 5 10 15
 Ala Leu Thr Val Ser Glu Thr Thr Phe Gly Arg Asp Phe Asn Glu Ala
 20 25 30
 Leu Val His Gln Val Val Val Ala Tyr Ala Ala Gly Ala Arg Gln Gly
 35 40 45
 Thr Arg Ala Gln Lys Thr Arg Ala Glu Val Thr Gly Ser Gly Lys Lys
 50 55 60
 Pro Trp Arg Gln Lys Gly Thr Gly Arg Ala Arg Ser Gly Ser Ile Lys
 65 70 75 80
 Asn Pro Ile Trp Arg Ser Gly Gly Val Asp Phe Ala Ala Arg Pro Gln
 85 90 95
 Glu Thr Gln Ser Xaa Val Asn Lys Lys Met Leu Arg Gly Ala Leu Lys
 100 105 110
 Ser Ile Leu Val Gln Leu Gly Thr Ser Gly Ser
 115 120

<210> 7576

<211> 307

<212> PRT

<213> Enterobacter cloacae

<400> 7576

Leu Gln His Asp Gly Ser Leu Arg Ala Ala Ser Met Phe Lys Gln Tyr
 1 5 10 15
 Leu Gln Val Thr Lys Pro Gly Ile Ile Phe Gly Asn Leu Ile Ser Val
 20 25 30
 Ile Gly Gly Phe Leu Leu Ala Ser Lys Gly Ser Ile Asp Tyr Thr Leu
 35 40 45
 Phe Ile Tyr Thr Leu Val Gly Val Ser Leu Val Val Ala Ser Gly Cys
 50 55 60
 Val Phe Asn Asn Tyr Ile Asp Met Asp Ile Asp Lys Lys Met Glu Arg
 65 70 75 80
 Thr Lys Asn Arg Val Leu Val Lys Gly Leu Ile Ala Pro Ser Val Ser

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<210> 7577
<211> 458
<212> PRT
<213> Enterobacter cloacae
```

<400> 7577																
Thr	Glu	Val	Val	Met	Asn	Asp	Tyr	Lys	Met	Thr	Pro	Gly	Glu	Leu	Arg	
1				5					10					15		
Ala	Thr	Trp	Gly	Leu	Gly	Thr	Val	Phe	Ser	Leu	Arg	Met	Leu	Gly	Met	
			20					25					30			
Phe	Met	Val	Leu	Pro	Val	Leu	Thr	Tyr	Gly	Met	Ala	Leu	Gln	Gly		
		35					40				45					
Ala	Ser	Glu	Ala	Leu	Ile	Gly	Leu	Ala	Ile	Gly	Ile	Tyr	Gly	Leu	Ala	
	50					55				60						
Gln	Ala	Ile	Phe	Gln	Ile	Pro	Phe	Gly	Leu	Leu	Ser	Asp	Arg	Val	Gly	
65					70				75					80		
Arg	Lys	Pro	Leu	Ile	Val	Gly	Gly	Leu	Leu	Val	Phe	Val	Leu	Gly	Ser	
				85				90					95			
Ile	Ile	Ala	Ala	Leu	Ser	His	Ser	Ile	Trp	Gly	Ile	Ile	Leu	Gly	Arg	
			100					105					110			
Ala	Leu	Gln	Gly	Ser	Gly	Ala	Ile	Ala	Ala	Ala	Val	Met	Ala	Leu	Leu	
		115					120				125					
Ser	Asp	Leu	Thr	Arg	Glu	Gln	Asn	Arg	Thr	Lys	Ala	Met	Ala	Phe	Ile	
	130					135					140					
Gly	Val	Ser	Phe	Gly	Val	Thr	Phe	Ala	Ile	Ala	Met	Val	Leu	Gly	Pro	
145					150				155					160		
Ile	Ile	Thr	His	Ser	Leu	Gly	Leu	His	Ala	Leu	Phe	Trp	Met	Ile	Ala	
				165				170					175			
Met	Leu	Ala	Thr	Ile	Gly	Ile	Ala	Leu	Thr	Leu	Trp	Val	Val	Pro	Asp	
		180						185				190				
Ser	Lys	Asn	His	Val	Leu	Asn	Arg	Glu	Ser	Gly	Met	Val	Lys	Gly	Cys	

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      195              200              205
Phe Ser Lys Val Ile Val Glu Pro Arg Leu Leu Lys Leu Asn Phe Gly
  210              215              220
Ile Met Cys Leu His Ile Leu Leu Met Ser Thr Phe Val Ala Leu Pro
  225              230              235              240
Gly Gln Leu Ala Ala Ala Gly Phe Pro Ala Ala Glu His Trp Lys Ile
      245              250              255
Tyr Leu Val Thr Met Leu Ile Ser Phe Val Ser Val Val Pro Phe Ile
      260              265              270
Ile Tyr Ala Glu Val Lys Arg Lys Met Lys Arg Val Phe Val Gly Cys
      275              280              285
Val Ala Leu Leu Leu Ile Ala Glu Ile Val Leu Trp Gly Ala Gly Pro
      290              295              300
His Phe Trp Glu Leu Ile Ala Gly Val Gln Leu Phe Phe Leu Ala Phe
  305              310              315              320
Asn Leu Met Glu Ala Leu Leu Pro Ser Leu Ile Ser Lys Glu Ser Pro
      325              330              335
Ala Gly Tyr Lys Gly Thr Ala Met Gly Ile Tyr Ser Thr Ser Gln Phe
      340              345              350
Leu Gly Val Ala Ile Gly Gly Ser Leu Gly Gly Trp Val Asp Gly Leu
      355              360              365
Phe Asp Ser Gln Thr Val Phe Leu Ala Gly Ala Leu Leu Ala Met Leu
  370              375              380
Trp Leu Phe Val Ala Ser Thr Met Lys Glu Pro Arg Tyr Val Ser Ser
  385              390              395              400
Leu Arg Val Glu Ile Pro Asp Asp Val Ala Ile Gly Asp Ala Leu Gln
      405              410              415
Gln Arg Leu Glu Ala Thr Glu Gly Val Ser Glu Val Leu Ile Val Pro
      420              425              430
Glu Glu Arg Ser Ala Tyr Val Lys Ile Asp Ser Lys Val Thr Asn Arg
      435              440              445
Phe Glu Val Glu Gln Ala Leu Lys Ala
  450              455

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<210> 7578

<211> 205

<212> PRT

<213> *Enterobacter cloacae*

<400> 7578

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Asp Lys Gly Ser Met Pro Asp Gly Thr Ile Leu Ser Thr Ile Ala Ala
  1              5              10              15
Ile Cys Asp Phe Lys Glu Leu Asn Ala Met Thr Arg Arg Tyr Leu Lys
      20              25              30
Ile Val Leu Val Gly Ser Leu Phe Thr Leu Ser Ala Cys Ala Gln Gln
      35              40              45
Ser Glu Val Arg Glu Met Lys Gln Ser Val Asn Thr Leu Asn Val Ala
      50              55              60
Met Asp Lys Leu Asn Lys Glu Thr Val Lys Ile Thr Gln Gln Asn Ala
  65              70              75              80
Leu Asn Ala Lys Ser Ser Asn Gly Val His Leu Leu Pro Gly Ala Asn
      85              90              95
Thr Pro Ala Arg Leu Asn Ser Gln Ile Gly Thr Leu Lys Met Ser Leu
      100              105              110
Val Asn Val Ala Ala Asn Ala Asp Gly Thr Arg Ala Thr Leu Arg Ile
      115              120              125
Gln Gly Glu Ser Asn Asp Pro Leu Pro Ala Phe Ser Gly Thr Val Glu
      130              135              140
Trp Gly Gln Ile Gln Gly Thr Thr Glu Ser Tyr Gln Glu Val Asn Val
  145              150              155              160
Lys Asn Gln Leu Phe Thr Ala Pro Ala Ser Thr Leu Ala Pro Ser Asp

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				165					170					175			
Val	Asp	Ile	Pro	Leu	Gln	Leu	Ser	Gly	Leu	Thr	Pro	Glu	Gln	Leu	Gly		
			180					185					190				
Phe	Ile	Arg	Ile	His	Asp	Ile	Gln	Pro	Ala	Ala	Gln						
		195					200					205					

<210> 7579

<211> 677

<212> PRT

<213> Enterobacter cloacae

<400> 7579

Ala	Thr	Arg	Lys	Pro	Leu	Thr	Lys	Gly	Pro	Arg	Lys	Lys	Met	Phe	Gly		
1				5				10					15				
Lys	Leu	Thr	Leu	Asp	Ala	Val	Pro	Tyr	His	Glu	Pro	Ile	Ile	Met	Val		
			20					25					30				
Thr	Val	Ala	Ala	Ile	Ile	Ile	Gly	Gly	Ala	Ala	Leu	Val	Gly	Leu	Ile		
		35					40					45					
Thr	Tyr	Phe	Gly	Lys	Trp	Ser	Tyr	Leu	Trp	Asn	Glu	Trp	Leu	Thr	Ser		
	50					55				60							
Val	Asp	His	Lys	Lys	Leu	Gly	Ile	Met	Tyr	Cys	Ile	Val	Gly	Ile	Val		
65					70					75					80		
Met	Leu	Ile	Arg	Gly	Phe	Ala	Asp	Ala	Ile	Met	Met	Arg	Ser	Gln	Gln		
				85				90						95			
Ala	Leu	Ala	Ser	Ala	Gly	Glu	Ala	Gly	Phe	Leu	Pro	Pro	His	His	Tyr		
			100					105					110				
Asp	Gln	Ile	Phe	Thr	Ala	His	Gly	Val	Ile	Met	Ile	Phe	Phe	Val	Ala		
		115					120					125					
Met	Pro	Leu	Val	Ile	Gly	Leu	Met	Asn	Val	Val	Val	Pro	Leu	Gln	Ile		
	130					135					140						
Gly	Ala	Arg	Asp	Val	Ala	Phe	Pro	Phe	Leu	Asn	Asn	Leu	Ser	Phe	Trp		
145					150					155					160		
Phe	Thr	Val	Val	Gly	Val	Ile	Leu	Val	Asn	Leu	Ser	Leu	Gly	Val	Gly		
				165					170					175			
Glu	Phe	Ala	Gln	Thr	Gly	Trp	Leu	Ala	Tyr	Pro	Pro	Leu	Ser	Gly	Ile		
			180					185					190				
Glu	Tyr	Ser	Pro	Gly	Val	Gly	Val	Asp	Tyr	Trp	Ile	Trp	Ala	Leu	Gln		
		195					200					205					
Leu	Ser	Gly	Val	Gly	Thr	Thr	Leu	Thr	Gly	Ile	Asn	Phe	Phe	Val	Thr		
	210					215					220						
Ile	Leu	Lys	Met	Arg	Ala	Pro	Gly	Met	Thr	Met	Phe	Lys	Met	Pro	Val		
225					230					235					240		
Phe	Thr	Trp	Ala	Ser	Leu	Cys	Ala	Asn	Val	Leu	Ile	Ile	Ala	Ser	Phe		
			245					250						255			
Pro	Ile	Leu	Thr	Val	Thr	Ile	Ala	Leu	Leu	Thr	Leu	Asp	Arg	Tyr	Leu		
			260					265					270				
Gly	Thr	His	Phe	Phe	Thr	Asn	Asp	Met	Gly	Gly	Asn	Met	Met	Met	Tyr		
		275					280					285					
Ile	Asn	Leu	Ile	Trp	Ala	Trp	Gly	His	Pro	Glu	Val	Tyr	Ile	Leu	Val		
	290					295					300						
Leu	Pro	Val	Phe	Gly	Val	Phe	Ser	Glu	Ile	Ala	Ala	Thr	Phe	Ser	Arg		
305					310					315					320		
Lys	Arg	Leu	Phe	Gly	Tyr	Thr	Ser	Leu	Val	Trp	Ala	Thr	Val	Cys	Ile		
			325						330					335			
Thr	Val	Leu	Ser	Phe	Ile	Val	Trp	Leu	His	His	Phe	Phe	Thr	Met	Gly		
		340						345					350				
Ala	Gly	Ala	Asn	Val	Asn	Ala	Phe	Phe	Gly	Ile	Thr	Thr	Met	Ile	Ile		
		355				360						365					
Ala	Ile	Pro	Thr	Gly	Val	Lys	Ile	Phe	Asn	Trp	Leu	Phe	Thr	Met	Tyr		
	370					375					380						
Gln	Gly	Arg	Ile	Val	Phe	His	Ser	Ala	Met	Leu	Trp	Thr	Ile	Gly	Phe		

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385          390          395          400
Ile Val Thr Phe Ser Val Gly Gly Met Thr Gly Val Leu Leu Ala Val
          405          410          415
Pro Gly Ala Asp Phe Val Leu His Asn Ser Leu Phe Leu Ile Ala His
          420          425          430
Phe His Asn Val Ile Ile Gly Gly Val Val Phe Gly Cys Phe Ala Gly
          435          440          445
Val Thr Tyr Trp Trp Pro Lys Ala Phe Gly Phe Thr Leu Asn Glu Lys
          450          455          460
Trp Gly Lys Arg Ala Phe Trp Phe Trp Ile Ile Gly Phe Phe Val Ala
465          470          475          480
Phe Met Pro Leu Tyr Val Leu Gly Phe Met Gly Met Thr Arg Arg Leu
          485          490          495
Ser Gln Gln Ile Asp Pro Gln Phe His Pro Met Leu Met Ile Ala Ala
          500          505          510
Gly Gly Ala Ala Leu Ile Ala Cys Gly Ile Leu Cys Gln Leu Ile Gln
          515          520          525
Tyr Tyr Val Ser Ile Arg Asp Arg Asn Leu Asn Arg Asp Leu Thr Gly
530          535          540
Asp Pro Trp Gly Gly Arg Thr Leu Glu Trp Ser Thr Ser Ser Pro Pro
545          550          555          560
Pro Phe Tyr Asn Phe Ala Val Val Pro His Ile His Glu Arg Asp Ala
          565          570          575
Phe Trp Glu Met Lys Glu Lys Gly Glu Ala Tyr Lys Gln Pro Glu His
          580          585          590
Tyr Glu Glu Ile His Met Pro Lys Asn Ser Gly Ala Gly Ile Val Ile
          595          600          605
Ala Ala Phe Ala Thr Val Phe Gly Phe Ala Met Ile Trp His Ile Trp
          610          615          620
Trp Met Ala Ile Val Gly Phe Ala Gly Ile Val Ile Ser Trp Ile Val
625          630          635          640
Lys Ser Phe Asp Glu Asp Val Asp Tyr Tyr Val Pro Val Arg Glu Val
          645          650          655
Glu Lys Leu Glu Asn Gln His Phe Asp Glu Ile Ser Lys Ala Gly Leu
          660          665          670
Lys Asn Gly Asn
          675

```

<210> 7580

<211> 141

<212> PRT

<213> Enterobacter cloacae

<400> 7580

```

Pro Tyr Pro Tyr Tyr Val Pro Glu Pro Val Leu Ala Leu Pro Gly Arg
1          5          10          15
Gly Met Asp Leu Cys Val Leu Cys Cys Leu Ser Asp Gly Gly Asp Val
          20          25          30
Met Ser His Ser Asn Asp His Gly Ala Ser His Gly Ser Val Lys Thr
          35          40          45
Tyr Met Thr Gly Phe Ile Leu Ser Ile Ile Leu Thr Val Ile Pro Phe
          50          55          60
Trp Met Val Met Asn Gly Ser Ala Ser Lys Pro Val Ile Leu Gly Ala
65          70          75          80
Ile Leu Val Thr Ala Val Ile Gln Ile Leu Val His Leu Val Cys Phe
          85          90          95
Leu His Met Asn Thr Lys Ser Asp Glu Gly Trp Asn Met Thr Ala Phe
          100          105          110
Ile Phe Thr Val Ile Ile Ile Ala Ile Leu Val Val Gly Ser Ile Trp
          115          120          125
Ile Met Trp Asn Leu Asn Tyr Asn Met Met Val His

```

130

135

140

<210> 7581

<211> 307

<212> PRT

<213> Enterobacter cloacae

<400> 7581

Gly Gly Thr Met Lys Val Thr Val Leu Gly Cys Gly Ala Leu Gly Gln
 1 5 10 15
 Leu Trp Leu Thr Ala Leu Cys Lys Gln Gly His Asp Val Gln Gly Trp
 20 25 30
 Leu Arg Ile Pro Gln Pro Tyr Cys Ser Val Asn Val Met Gly Thr Asp
 35 40 45
 Gly Ser Ile Phe Asn Glu Ser Leu Thr Ala Asn Asp Pro Glu Phe Leu
 50 55 60
 Ala Thr Ser Asp Leu Leu Leu Val Thr Leu Lys Ala Trp Gln Val Ser
 65 70 75 80
 Asp Ala Val Lys Ser Leu Ala Ala Gln Leu Pro Glu Ser Thr Pro Ile
 85 90 95
 Leu Leu Ile His Asn Gly Met Gly Thr Ile Glu Glu Leu Lys Ser Val
 100 105 110
 Arg Gln Pro Leu Leu Met Gly Thr Thr Thr His Ala Ala Arg Arg Asp
 115 120 125
 Gly Asn Val Ile Ile His Val Ala Ser Gly Ile Thr His Ile Gly Pro
 130 135 140
 Ala Arg Glu Gln Pro Gly Asp Tyr Ser Tyr Leu Ala Asp Thr Leu Gln
 145 150 155 160
 Ser Thr Leu Pro Asp Val Ala Trp His Asn Asn Ile Arg Ala Glu Leu
 165 170 175
 Trp Arg Lys Leu Ala Val Asn Cys Ala Ile Asn Pro Leu Thr Ala Leu
 180 185 190
 Leu Asp Cys Pro Asn Gly Glu Leu Arg Gln His Pro Asp Arg Val Ala
 195 200 205
 Leu Ile Cys Arg Glu Val Ala Ala Val Ile Glu Arg Glu Gly Tyr His
 210 215 220
 Thr Ser Glu Ser Asp Leu Arg Tyr Tyr Val Asp Gln Val Ile Glu Ser
 225 230 235 240
 Thr Ala Glu Asn Ile Ser Ser Met Leu Gln Asp Ile Arg Ala Met Arg
 245 250 255
 His Thr Glu Ile Asp Tyr Ile Thr Gly Tyr Leu Leu Lys Arg Ala Arg
 260 265 270
 Ala His Gly Ile Thr Val Ala Glu Asn Ser Arg Leu Phe Glu Leu Val
 275 280 285
 Lys Arg Lys Glu Ser Glu Tyr Glu Arg Ile Gly Thr Gly Met Pro Arg
 290 295 300
 Pro Trp
 305

<210> 7582

<211> 335

<212> PRT

<213> Enterobacter cloacae

<400> 7582

Thr Tyr Cys Leu Asn Ser Arg Ser Gly Thr Met Gln Tyr Thr Thr Leu
 1 5 10 15
 Gly Lys Thr Asp Leu Lys Val Ser Arg Leu Cys Leu Gly Cys Met Thr
 20 25 30
 Phe Gly Glu Pro Asp Arg Gly Asn His Ala Trp Thr Leu Pro Glu Glu
 35 40 45

Ser Ser Arg Pro Ile Ile Lys Arg Ala Ile Asp Gly Gly Ile Asn Phe
 50 55 60
 Phe Asp Thr Ala Asn Ser Tyr Ser Asp Gly Ser Ser Glu Glu Ile Val
 65 70 75 80
 Gly Arg Ala Leu Arg Asp Phe Ala Arg Arg Asp Asp Val Val Val Ala
 85 90 95
 Thr Lys Val Tyr Tyr Pro Ser Gly Asp Leu Ala Glu Gly Leu Ser Arg
 100 105 110
 Ala Gln Ile Leu Arg Ser Ile Asp Asp Ser Leu Arg Arg Leu Asn Met
 115 120 125
 Asp Tyr Val Asp Leu Leu Gln Ile His Arg Trp Asp Tyr Asn Thr Pro
 130 135 140
 Ile Glu Glu Thr Leu Glu Ala Leu Asn Asp Val Val Lys Ala Gly Lys
 145 150 155 160
 Ala Arg Tyr Ile Gly Ala Ser Ser Met His Ala Ser Gln Phe Ala Gln
 165 170 175
 Ala Leu Asp Leu Gln Ala Gln His Gly Trp Ala Arg Phe Val Thr Met
 180 185 190
 Gln Asp His Tyr Asn Leu Ile Tyr Arg Glu Glu Glu Arg Glu Met Leu
 195 200 205
 Pro Leu Cys Tyr Gln Glu Gly Val Ala Val Ile Pro Trp Ser Pro Leu
 210 215 220
 Ala Arg Gly Arg Leu Thr Arg Pro Trp Gly Glu Thr Thr Ala Arg Leu
 225 230 235 240
 Val Ser Asp Glu Val Gly Lys Asn Leu Tyr Asp Asp Thr Glu Thr Ser
 245 250 255
 Asp Ala Leu Ile Ala Glu Arg Leu Ala Gly Ile Ala Asp Asp Ile Gly
 260 265 270
 Ala Thr Arg Ala Gln Val Ala Leu Ala Trp Leu Leu Ser Lys Arg Gly
 275 280 285
 Val Ala Ala Pro Ile Val Gly Thr Ser Arg Glu Glu Gln Leu Asp Glu
 290 295 300
 Leu Leu Ser Ala Val Asp Leu Ser Leu Thr Pro Glu Gln Ile Ala Glu
 305 310 315 320
 Leu Glu Thr Pro Tyr Gln Gln His Pro Val Val Gly Phe Lys
 325 330 335

<210> 7583

<211> 206

<212> PRT

<213> Enterobacter cloacae

<400> 7583

Lys Met Ala Thr Asp Thr Leu Ala His Ser Thr Ala His Ala His Glu
 1 5 10 15
 His Ala His His Asp Thr Gly Pro Thr Lys Val Phe Gly Phe Trp Ile
 20 25 30
 Tyr Leu Met Ser Asp Cys Ile Leu Phe Cys Cys Leu Phe Ala Thr Tyr
 35 40 45
 Ala Val Leu Val Asn Gly Thr Ala Gly Gly Pro Thr Gly Lys Asp Ile
 50 55 60
 Phe Glu Leu Pro Phe Val Leu Val Glu Thr Ala Leu Leu Leu Phe Ser
 65 70 75 80
 Ser Ile Thr Tyr Gly Met Ala Ala Ile Ala Met Tyr Lys Asn Asn Lys
 85 90 95
 Ser Gln Val Val Ser Trp Leu Ala Leu Thr Trp Leu Phe Gly Ala Gly
 100 105 110
 Phe Ile Gly Met Glu Ile Tyr Glu Phe His His Leu Ile Met Glu Gly
 115 120 125
 Phe Gly Pro Asp Arg Ser Gly Phe Leu Ser Ala Phe Phe Ala Leu Val
 130 135 140

Gly Thr His Gly Leu His Val Thr Ser Gly Leu Ile Trp Met Ala Val
 145 150 155 160
 Leu Met Phe Gln Ile Ser Arg Arg Gly Leu Thr Ser Thr Asn Arg Thr
 165 170 175
 Arg Ile Met Cys Leu Ser Leu Phe Trp His Phe Leu Asp Val Val Trp
 180 185 190
 Ile Cys Val Phe Ser Val Val Tyr Leu Met Gly Ala Met
 195 200 205

<210> 7584

<211> 203

<212> PRT

<213> Enterobacter cloacae

<400> 7584

Asn Glu Arg Arg Val Ser Met Ser Ala Ser Ala Leu Val Cys Leu Ala
 1 5 10 15
 Pro Gly Ser Glu Glu Thr Glu Ala Val Thr Thr Ile Asp Leu Leu Val
 20 25 30
 Arg Gly Gly Ile Lys Val Thr Thr Ala Ser Val Ala Ser Asp Gly Ser
 35 40 45
 Leu Ala Ile Thr Cys Ser Arg Gly Val Lys Ile Leu Ala Asp Ala Pro
 50 55 60
 Leu Val Gln Val Ala Asp Gly Asp Tyr Asp Ile Ile Val Leu Pro Gly
 65 70 75 80
 Gly Leu Lys Gly Ala Glu Cys Phe Arg Asp Ser Pro Leu Leu Val Glu
 85 90 95
 Thr Val Arg Gln Phe His Leu Ser Gly Arg Ile Val Ala Ala Ile Cys
 100 105 110
 Ala Ala Ala Gly Thr Val Leu Val Pro His Asp Ile Phe Pro Ile Gly
 115 120 125
 Asn Met Thr Gly Phe Pro Gly Leu Lys Asp Thr Ile Pro Glu Asp Gln
 130 135 140
 Trp Val Asp Lys Arg Val Val Trp Asp Pro Arg Val Asn Leu Leu Thr
 145 150 155 160
 Ser Gln Gly Pro Gly Thr Ala Ile Asp Phe Gly Leu Lys Ile Ile Asp
 165 170 175
 Leu Leu Val Gly Arg Glu Lys Ala Tyr Glu Val Ala Ser Ser Leu Val
 180 185 190
 Met Ala Ala Gly Ile Tyr Asn Tyr Tyr Glu
 195 200

<210> 7585

<211> 83

<212> PRT

<213> Enterobacter cloacae

<400> 7585

Phe Thr Met Pro Lys Lys Asn Asp Ala Pro Ala Ser Phe Glu Thr Ala
 1 5 10 15
 Leu Ser Glu Leu Glu Gln Ile Val Thr Arg Leu Glu Ser Gly Asp Leu
 20 25 30
 Pro Leu Glu Asp Ala Leu Asn Glu Phe Glu Arg Gly Val Gln Leu Ala
 35 40 45
 Arg Gln Gly Gln Val Lys Leu Gln Gln Ala Glu Gln Arg Val Gln Ile
 50 55 60
 Leu Leu Ser Asp Ser Glu Asp Ala Lys Thr Thr Pro Phe Thr Pro Asp
 65 70 75 80
 Ala Glu

<210> 7586
 <211> 300
 <212> PRT
 <213> Enterobacter cloacae

<400> 7586
 Met Asp Phe Ser Asn Ala Leu Gln Ala Arg Val Ile Arg Ala Asn Asp
 1 5 10 15
 Ala Leu Arg Arg Phe Ile Glu Pro Gln Pro Phe Gln Asn Thr Pro Leu
 20 25 30
 Val Glu Ala Met His Tyr Gly Ala Leu Leu Gly Gly Lys Arg Leu Arg
 35 40 45
 Pro Phe Leu Val Tyr Ala Thr Gly Asn Met Phe Gly Ile Ser Asp Asn
 50 55 60
 Thr Leu Asp Ala Pro Ala Ala Ala Val Glu Cys Ile His Ala Tyr Ser
 65 70 75 80
 Leu Ile His Asp Asp Leu Pro Ala Met Asp Asp Asp Asp Leu Arg Arg
 85 90 95
 Gly Gln Pro Thr Cys His Ile Lys Phe Gly Glu Ala Asn Ala Ile Leu
 100 105 110
 Ala Gly Asp Ala Leu Gln Thr Leu Ala Phe Ser Ile Leu Ser Asp Ala
 115 120 125
 Pro Met Val Glu Val Ser Asp Arg Asp Arg Leu Ala Met Val Ser Glu
 130 135 140
 Leu Ala Met Ala Ser Gly Val Ala Gly Met Cys Gly Gly Gln Ala Leu
 145 150 155 160
 Asp Leu Glu Ala Glu Gly Arg Gln Val Thr Leu Glu Gln Leu Glu Arg
 165 170 175
 Ile His Arg His Lys Thr Gly Ala Leu Ile Arg Ala Ala Val Arg Leu
 180 185 190
 Gly Ala Leu Ser Ala Gly Glu Arg Gly Arg Lys Ala Leu Pro Ile Leu
 195 200 205
 Asp Arg Tyr Ala Glu Ser Ile Gly Leu Ala Phe Gln Val Gln Asp Asp
 210 215 220
 Ile Leu Asp Val Val Gly Asp Thr Ala Thr Leu Gly Lys Arg Gln Gly
 225 230 235 240
 Ala Asp Gln Gln Leu Gly Lys Ser Thr Tyr Pro Ala Leu Leu Gly Leu
 245 250 255
 Glu His Ala Gln Arg Lys Ala Arg Asp Leu Ile Asp Asp Ala Arg Gln
 260 265 270
 Ser Leu Asn Glu Leu Ala Ala Gln Ser Leu Asp Thr Ser Ala Leu Glu
 275 280 285
 Ala Leu Ala Asp Tyr Ile Ile Gln Arg Asp Lys
 290 295 300

<210> 7587
 <211> 629
 <212> PRT
 <213> Enterobacter cloacae

<400> 7587
 Thr Ile Asn Leu Asp Glu Pro Leu Met Ser Phe Asp Ile Ala Lys Tyr
 1 5 10 15
 Pro Thr Leu Ala Leu Val Asp Ser Thr Gln Glu Leu Arg Leu Leu Pro
 20 25 30
 Lys Glu Ser Leu Pro Lys Leu Cys Asp Glu Leu Arg Arg Tyr Leu Leu
 35 40 45
 Asp Ser Val Ser Arg Ser Ser Gly His Phe Ala Ser Gly Leu Gly Thr
 50 55 60
 Val Glu Leu Thr Val Ala Leu His Tyr Val Tyr Asn Thr Pro Phe Asp
 65 70 75 80

Gln Leu Ile Trp Asp Val Gly His Gln Ala Tyr Pro His Lys Ile Leu
 85 90 95
 Thr Gly Arg Arg Asp Lys Ile Gly Thr Ile Arg Gln Lys Gly Gly Leu
 100 105 110
 His Pro Phe Pro Trp Arg Gly Glu Ser Glu Tyr Asp Val Leu Ser Val
 115 120 125
 Gly His Ser Ser Thr Ser Ile Ser Ala Gly Ile Gly Ile Ala Val Ala
 130 135 140
 Ala Glu Lys Glu Asn Lys Gln Arg Arg Thr Val Cys Val Ile Gly Asp
 145 150 155 160
 Gly Ala Ile Thr Ala Gly Met Ala Phe Glu Ala Met Asn His Ala Gly
 165 170 175
 Asp Ile Lys Pro Asp Met Leu Val Ile Leu Asn Asp Asn Glu Met Ser
 180 185 190
 Ile Ser Glu Asn Val Gly Ala Leu Asn Asn His Leu Ala Gln Leu Leu
 195 200 205
 Ser Gly Lys Leu Tyr Ser Ser Leu Arg Glu Gly Gly Lys Lys Val Phe
 210 215 220
 Ser Gly Val Pro Pro Ile Lys Glu Leu Leu Lys Arg Thr Glu Glu His
 225 230 235 240
 Ile Lys Gly Met Val Val Pro Gly Thr Leu Phe Glu Glu Leu Gly Phe
 245 250 255
 Asn Tyr Ile Gly Pro Val Asp Gly His Asp Val Leu Gly Leu Val Thr
 260 265 270
 Thr Leu Lys Asn Met Arg Asp Leu Lys Gly Pro Gln Phe Leu His Ile
 275 280 285
 Met Thr Lys Lys Gly Arg Gly Tyr Glu Pro Ala Glu Lys Asp Pro Ile
 290 295 300
 Thr Phe His Ala Val Pro Lys Phe Asp His Thr Ser Gly Cys Leu Pro
 305 310 315 320
 Lys Ser Ser Gly Gly Met Pro Ser Tyr Ser Lys Ile Phe Gly Asp Trp
 325 330 335
 Leu Cys Glu Thr Ala Ala Lys Asp Asn Met Leu Met Ala Val Thr Pro
 340 345 350
 Ala Met Arg Glu Gly Ser Gly Met Val Glu Phe Ser Lys Lys Tyr Pro
 355 360 365
 Asp Gln Tyr Phe Asp Val Ala Ile Ala Glu Gln His Ala Val Thr Phe
 370 375 380
 Ala Ala Gly Leu Ala Ile Gly Gly Tyr Lys Pro Val Val Ala Ile Tyr
 385 390 395 400
 Ser Thr Phe Leu Gln Arg Ala Tyr Asp Gln Val Ile His Asp Val Ala
 405 410 415
 Ile Gln Lys Leu Pro Val Leu Phe Ala Ile Asp Arg Ala Gly Ile Val
 420 425 430
 Gly Ala Asp Gly Gln Thr His Gln Gly Ala Phe Asp Leu Ser Phe Leu
 435 440 445
 Arg Cys Ile Pro Asp Met Val Ile Met Thr Pro Ser Asp Glu Asn Glu
 450 455 460
 Cys Arg Gln Met Leu Tyr Thr Gly Tyr His Tyr Gln Asp Gly Pro Cys
 465 470 475 480
 Ala Val Arg Tyr Pro Arg Gly Asn Ala Leu Gly Val Glu Leu Gln Pro
 485 490 495
 Leu Glu Lys Leu Asp Ile Gly Lys Ala Leu Val Lys Arg Arg Gly Glu
 500 505 510
 Lys Val Ala Ile Leu Asn Phe Gly Thr Leu Met Pro Glu Ala Ala Lys
 515 520 525
 Val Ala Glu Asn Leu Asn Ala Thr Leu Val Asp Met Arg Phe Val Lys
 530 535 540
 Pro Leu Asp Glu Ser Leu Ile Leu Ser Met Ala Glu Ser His Asp Val
 545 550 555 560
 Leu Val Thr Leu Glu Glu Asn Ala Ile Met Gly Gly Ala Gly Ser Gly

				565					570				575				
Val	Asn	Glu	Val	Leu	Met	Ala	Asn	Arg	Lys	Ala	Val	Pro	Val	Leu	Asn		
			580					585					590				
Leu	Gly	Leu	Pro	Asp	His	Phe	Ile	Pro	Gln	Gly	Thr	Gln	Asp	Glu	Ala		
		595					600					605					
Arg	Ala	Asp	Ile	Gly	Leu	Asp	Ala	Ala	Gly	Ile	Glu	Ala	Lys	Ile	Arg		
	610					615					620						
Thr	Trp	Leu	Ala														
625																	

<210> 7588

<211> 403

<212> PRT

<213> Enterobacter cloacae

<400> 7588

Lys	Ser	Ser	Ile	Lys	Ser	Pro	Ile	Ser	Ala	Leu	Pro	Pro	Phe	Thr	Ala		
1			5					10					15				
Ala	Ser	Lys	Thr	Ser	Lys	Ser	Leu	Ala	Lys	Arg	Ser	Pro	Ala	Tyr	Arg		
		20					25					30					
Ile	Lys	Thr	Met	His	Asp	Glu	Met	Tyr	Met	Ala	Arg	Ala	Met	Lys	Leu		
		35				40						45					
Ala	Gln	Arg	Gly	Arg	Phe	Thr	Thr	His	Pro	Asn	Pro	Asn	Val	Gly	Cys		
	50				55					60							
Val	Ile	Val	Lys	Asp	Gly	Glu	Ile	Val	Gly	Glu	Gly	Phe	His	Tyr	Arg		
65				70					75					80			
Ala	Gly	Glu	Pro	His	Ala	Glu	Val	His	Ala	Leu	Arg	Met	Ala	Gly	Glu		
			85					90					95				
Lys	Ala	Arg	Gly	Ala	Thr	Ala	Tyr	Val	Thr	Leu	Glu	Pro	Cys	Ser	His		
		100					105						110				
His	Gly	Arg	Thr	Pro	Pro	Cys	Cys	Glu	Ala	Leu	Ile	Ala	Ala	Gly	Val		
		115				120						125					
Ser	Arg	Val	Val	Ala	Ala	Met	Gln	Asp	Pro	Asn	Pro	Gln	Val	Ala	Gly		
	130				135				140								
Arg	Gly	Leu	Tyr	Arg	Leu	Gln	Gln	Glu	Gly	Ile	Asp	Val	Ser	His	Gly		
145				150					155						160		
Leu	Met	Met	Gln	Asp	Ala	Glu	Ala	Leu	Asn	Lys	Gly	Phe	Leu	Lys	Arg		
			165					170					175				
Met	Arg	Thr	Gly	Phe	Pro	Phe	Ile	Gln	Leu	Lys	Leu	Gly	Ala	Ser	Leu		
		180					185						190				
Asp	Gly	Arg	Thr	Ala	Met	Ala	Asn	Gly	Glu	Ser	Gln	Trp	Ile	Thr	Ser		
		195				200						205					
Pro	Gln	Ala	Arg	Arg	Asp	Val	Gln	Arg	Leu	Arg	Ala	Gln	Ser	His	Ala		
	210				215						220						
Ile	Leu	Thr	Ser	Ser	Glu	Thr	Val	Leu	Ala	Asp	Asp	Pro	Ala	Met	Thr		
225					230					235					240		
Val	Arg	Trp	Glu	Glu	Leu	Asn	Ala	Asp	Thr	Gln	Ala	Leu	Tyr	Pro	Gln		
			245					250						255			
Glu	Asn	Leu	Arg	Gln	Pro	Leu	Arg	Ile	Ile	Ile	Asp	Ser	Gln	Asn	Arg		
		260					265						270				
Val	Thr	Pro	Glu	His	Arg	Ile	Val	Gln	Gln	Pro	Gly	Glu	Thr	Trp	Ile		
	275					280						285					
Ala	Arg	Thr	Lys	Glu	Asp	Thr	Arg	Glu	Trp	Pro	Gln	Gly	Val	Arg	Ser		
	290				295						300						
Ile	Thr	Val	Pro	Glu	His	Asn	Gly	His	Leu	Asp	Leu	Val	Val	Leu	Met		
305				310					315						320		
Met	Leu	Leu	Gly	Lys	Gln	Gln	Val	Asn	Ser	Ile	Trp	Val	Glu	Ala	Gly		
			325					330						335			
Pro	Thr	Leu	Ala	Gly	Ala	Leu	Leu	Gln	Ala	Gly	Leu	Val	Asp	Glu	Leu		
		340					345						350				
Leu	Val	Tyr	Val	Ala	Pro	Lys	Leu	Leu	Gly	Asn	Asp	Ala	Arg	Gly	Leu		


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          355                      360                      365
Phe Val Leu Pro Gly Leu Glu Lys Leu Ala Asp Ala Pro Gln Leu Ser
   370                      375                      380
Phe Ser Glu Ile Arg Pro Val Gly Pro Asp Val Cys Leu His Leu Thr
385                      390                      395                      400
Thr Ala

```

<210> 7589

<211> 160

<212> PRT

<213> Enterobacter cloacae

<400> 7589

```

Arg Lys Ser Met Asn Ile Ile Glu Ala Ala Val Ala Thr Pro Asp Ala
1                      5                      10                      15
Arg Val Ala Ile Thr Ile Ala Arg Phe Asn Asn Phe Ile Asn Asp Ser
   20                      25                      30
Leu Leu Glu Gly Ala Val Asp Ala Leu Lys Arg Ile Gly Gln Val Lys
   35                      40                      45
Asp Asp Asn Ile Thr Val Val Trp Val Pro Gly Ala Tyr Glu Leu Pro
   50                      55                      60
Leu Ala Ala Gly Ala Leu Ala Lys Thr Gly Lys Tyr Asp Ala Val Ile
65                      70                      75                      80
Ala Leu Gly Thr Val Ile Arg Gly Gly Thr Ala His Phe Glu Tyr Val
   85                      90                      95
Ala Gly Gly Ala Ser Asn Gly Leu Ala His Val Ala Gln Asp Ala Glu
   100                      105                      110
Ile Pro Val Ala Phe Gly Val Leu Thr Thr Glu Ser Ile Glu Gln Ala
   115                      120                      125
Ile Glu Arg Ala Gly Thr Lys Ala Gly Asn Lys Gly Ala Glu Ala Ala
   130                      135                      140
Leu Thr Ala Leu Glu Met Ile Asn Val Leu Lys Ala Ile Lys Ala
145                      150                      155                      160

```

<210> 7590

<211> 147

<212> PRT

<213> Enterobacter cloacae

<400> 7590

```

Phe Phe Cys Lys Gly Asn Ser Val Lys Pro Ala Ala Arg Arg Arg Ala
1                      5                      10                      15
Arg Glu Cys Ala Val Gln Ala Leu Tyr Ser Trp Gln Leu Ser Gln Asn
   20                      25                      30
Asp Ile Ala Asp Val Glu Tyr Gln Phe Leu Ser Glu Gln Asp Val Lys
   35                      40                      45
Asp Val Asp Val Leu Tyr Phe Arg Glu Leu Leu Ser Gly Val Ala Thr
   50                      55                      60
Asn Ser Ala Tyr Leu Asp Gly Leu Met Lys Pro Tyr Leu Ser Arg Leu
65                      70                      75                      80
Leu Glu Glu Leu Gly Gln Val Glu Lys Ala Val Leu Arg Ile Ala Leu
   85                      90                      95
Phe Glu Leu Ser Lys Arg Asp Asp Val Pro Tyr Lys Val Ala Ile Asn
   100                      105                      110
Glu Ala Ile Glu Leu Ala Lys Thr Phe Gly Ala Glu Asp Ser His Lys
   115                      120                      125
Phe Val Asn Gly Val Leu Asp Lys Ala Ala Pro Ala Ile Arg Pro His
   130                      135                      140
Lys Lys
145

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<210> 7591
 <211> 185
 <212> PRT
 <213> Enterobacter cloacae

<400> 7591
 Ala Ser Arg Tyr Ala Ser Leu Arg Val Leu Cys Asn Ala Thr Lys Met
 1 5 10 15
 Lys Gly Glu Glu Lys Met Pro Ser Phe Asp Ile Val Ser Glu Val Asp
 20 25 30
 Leu Gln Glu Ala Arg Asn Gly Val Glu Asn Ala Val Arg Glu Val Glu
 35 40 45
 Ser Arg Phe Asp Phe Arg Gly Val Glu Ala Thr Ile Glu Leu Asn Asp
 50 55 60
 Ala Asn Lys Thr Ile Lys Val Leu Ser Glu Ser Asp Phe Gln Val Asn
 65 70 75 80
 Gln Leu Leu Asp Ile Leu Arg Ala Lys Leu Leu Lys Arg Gly Ile Glu
 85 90 95
 Gly Thr Ser Leu Asp Val Pro Glu Asp Phe Val His Ser Gly Lys Thr
 100 105 110
 Trp Phe Val Glu Ala Lys Leu Lys Gln Gly Ile Glu Ser Ala Val Gln
 115 120 125
 Lys Lys Ile Val Lys Leu Ile Lys Asp Ser Lys Leu Lys Val Gln Ala
 130 135 140
 Gln Ile Gln Gly Glu Glu Ile Arg Val Thr Gly Lys Ser Arg Asp Asp
 145 150 155 160
 Leu Gln Ser Val Met Ala Leu Val Arg Gly Gly Asp Leu Gly Gln Pro
 165 170 175
 Phe Gln Phe Lys Asn Phe Arg Asp
 180 185

<210> 7592
 <211> 154
 <212> PRT
 <213> Enterobacter cloacae

<400> 7592
 Gln Gly His Arg Met His Cys Pro Phe Cys Ser Ala Val Asp Thr Lys
 1 5 10 15
 Val Ile Asp Ser Arg Leu Val Gly Glu Gly Ser Ser Val Arg Arg Arg
 20 25 30
 Arg Gln Cys Leu Val Cys Asn Glu Arg Phe Thr Thr Phe Glu Val Ala
 35 40 45
 Glu Leu Val Met Pro Arg Val Lys Ser Asn Asp Val Arg Glu Pro
 50 55 60
 Phe Asn Glu Glu Lys Leu Arg Ser Gly Met Leu Lys Ala Leu Glu Lys
 65 70 75 80
 Arg Pro Val Ser Ser Asp Asp Val Glu Met Ala Leu Asn His Ile Lys
 85 90 95
 Ser Tyr Leu Arg Gly Leu Gly Glu Arg Glu Val Pro Ser Lys Met Ile
 100 105 110
 Gly Asn Leu Val Met Glu Gln Leu Lys Lys Leu Asp Lys Val Ala Tyr
 115 120 125
 Ile Arg Phe Ala Ser Val Tyr Arg Ser Phe Glu Asp Ile Lys Glu Phe
 130 135 140
 Gly Glu Glu Ile Ala Arg Leu Gln Asp
 145 150

<210> 7593
 <211> 325

<212> PRT

<213> Enterobacter cloacae

<400> 7593

```

Arg Met Ala Cys Gly Glu Phe Ser Leu Ile Ala Arg Tyr Phe Asp Arg
1      5      10      15
Val Arg Thr Ser Arg Leu Asp Val Glu Thr Gly Ile Gly Asp Asp Cys
      20      25      30
Ala Leu Leu Asn Ile Pro Glu Lys Gln Thr Leu Ala Ile Ser Thr Asp
      35      40      45
Thr Leu Val Cys Gly Arg His Phe Leu Pro Asp Ile Asp Pro Ala Asp
      50      55      60
Leu Ala Tyr Lys Ala Leu Ala Val Asn Val Ser Asp Leu Ala Ala Met
65      70      75      80
Gly Ala Asp Pro Ala Trp Leu Thr Leu Ala Leu Thr Leu Pro Glu Val
      85      90      95
Asp Glu Ala Trp Leu Glu Ala Phe Ser Asp Ala Leu Phe Glu Gln Leu
      100     105     110
Asn Tyr Tyr Asp Met Gln Leu Ile Gly Gly Asp Thr Thr Ala Gly Pro
      115     120     125
Leu Ser Met Thr Leu Ala Ile His Gly Tyr Val Pro Ala Gly Arg Ala
      130     135     140
Leu Lys Arg Ser Gly Ala Lys Pro Gly Asp Trp Ile Tyr Val Thr Gly
145     150     155     160
Thr Pro Gly Asp Ser Ala Ala Gly Leu Ala Ile Leu Gln Asn Arg Leu
      165     170     175
Thr Val Glu Asp Ala Asp Asp Ala Ala Tyr Leu Val Lys Arg His Leu
      180     185     190
Arg Pro Thr Pro Arg Ile Leu His Gly Gln Ala Leu Arg Glu Arg Ala
      195     200     205
Ser Ser Ala Ile Asp Leu Ser Asp Gly Leu Ile Ser Asp Leu Gly His
210     215     220
Ile Leu Lys Ala Ser Gly Val Gly Ala Arg Ile Asp Leu Asp Leu Phe
225     230     235     240
Pro Leu Ser Glu Pro Leu Arg Arg His Ala Glu Pro Glu Gln Ala Leu
      245     250     255
Arg Trp Ala Leu Ser Gly Gly Glu Asp Tyr Glu Leu Cys Phe Thr Val
      260     265     270
Pro Glu Leu Asn Arg Gly Thr Leu Asp Val Ala Leu Ala His Leu Gly
      275     280     285
Ala Lys Phe Thr Cys Ile Gly Gln Val Met Pro Glu Ser Glu Gly Leu
290     295     300
Leu Phe Val Arg Asp Gly Ala Pro Val Thr Leu Asp Trp Lys Gly Tyr
305     310     315     320
Asp His Phe Ala
      325

```

<210> 7594

<211> 491

<212> PRT

<213> Enterobacter cloacae

<400> 7594

```

Ala Cys Leu Arg Asn Ile Ala Ala Met Lys Phe Ile Ile Lys Leu Phe
1      5      10      15
Pro Glu Ile Thr Ile Lys Ser Gln Ser Val Arg Leu Arg Phe Ile Lys
      20      25      30
Ile Leu Thr Gly Asn Ile Arg Asn Val Leu Lys His Tyr Asp Glu Thr
      35      40      45
Leu Ala Val Val Arg His Trp Asp His Val Glu Val Arg Ala Lys Asp
50      55      60

```

Glu Ser Lys Arg Leu Asp Ile Arg Asp Ala Leu Thr Arg Ile Pro Gly
 65 70 75 80
 Ile His His Ile Leu Glu Val Glu Asp Val Pro Phe Ser Asp Met His
 85 90 95
 Asp Ile Phe Glu Lys Ala Leu Val Gln Tyr Arg Asp Gln Ile Glu Gly
 100 105 110
 Lys Thr Phe Cys Val Arg Val Lys Arg Arg Gly Lys His Glu Phe Ser
 115 120 125
 Ser Ile Glu Val Glu Arg Tyr Val Gly Gly Gly Leu Asn Gln His Val
 130 135 140
 Glu Thr Ala Arg Val Arg Leu Thr Asn Pro Asp Val Thr Val Asn Leu
 145 150 155 160
 Glu Ile Glu Asn Asp Arg Leu Leu Leu Val Lys Gly Arg Tyr Glu Gly
 165 170 175
 Ile Gly Gly Phe Pro Ile Gly Thr Gln Glu Asp Val Leu Ser Leu Ile
 180 185 190
 Ser Gly Gly Phe Asp Ser Gly Val Ser Ser Tyr Met Leu Met Arg Arg
 195 200 205
 Gly Cys Arg Val His Tyr Cys Phe Phe Asn Leu Gly Gly Ala Ala His
 210 215 220
 Glu Ile Gly Val Arg Gln Val Ala His Tyr Leu Trp Asn Arg Phe Gly
 225 230 235 240
 Ser Ser His Arg Val Arg Phe Val Ala Ile Asn Phe Glu Pro Val Val
 245 250 255
 Gly Glu Ile Leu Glu Lys Val Asp Asp Gly Gln Met Gly Val Val Leu
 260 265 270
 Lys Arg Met Met Val Arg Ala Ala Ser Lys Val Ala Glu Arg Tyr Gly
 275 280 285
 Val Gln Ala Leu Val Thr Gly Glu Ala Leu Gly Gln Val Ser Ser Gln
 290 295 300
 Thr Leu Thr Asn Leu Arg Leu Ile Asp Asn Val Ser Asp Thr Leu Ile
 305 310 315 320
 Leu Arg Pro Leu Ile Ser His Asp Lys Glu His Ile Ile Asp Leu Ala
 325 330 335
 Arg Lys Ile Gly Thr Glu Asp Phe Ala Arg Thr Met Pro Glu Tyr Cys
 340 345 350
 Gly Val Ile Ser Lys Ser Pro Thr Ile Lys Ala Val Lys Ala Lys Ile
 355 360 365
 Glu Ala Glu Glu Glu Asn Phe Asp Phe Ser Ile Leu Glu Lys Val Val
 370 375 380
 Ala Glu Ala Ser Asn Ile Asp Ile Arg Glu Ile Ala Gln Gln Thr Glu
 385 390 395 400
 Gln Glu Val Val Glu Val Glu Thr Val Ser Gly Phe Gly Ala Asn Asp
 405 410 415
 Thr Ile Leu Asp Ile Arg Ser Val Asp Glu Gln Asp Asp Lys Pro Leu
 420 425 430
 Gln Val Glu Gly Val Glu Val Val Ser Leu Pro Phe Tyr Lys Leu Ser
 435 440 445
 Thr Gln Phe Gly Asp Leu Asp Gln Ser Lys Thr Tyr Leu Leu Trp Cys
 450 455 460
 Glu Arg Gly Val Met Ser Arg Leu Gln Ala Leu Tyr Leu Arg Glu Gln
 465 470 475 480
 Gly Phe Ala Asn Val Lys Val Tyr Arg Pro
 485 490

<210> 7595

<211> 720

<212> PRT

<213> Enterobacter cloacae

<400> 7595

Arg Ser Glu Arg Ile Leu Ala Thr Thr Thr Ala Glu Arg Val Ile Gln
 1 5 10 15
 Ala Thr Pro Asp Tyr His Ala Leu Asn Ala Met Leu Asn Leu Tyr Asp
 20 25 30
 Arg Glu Gly Arg Ile Gln Phe Asp Lys Asp Arg Glu Ala Val Asp Ala
 35 40 45
 Phe Phe Ala Ala His Val Arg Pro Asn Ser Ile Val Phe Gly Ser Gln
 50 55 60
 Gln Glu Arg Leu Asp Trp Leu Val Lys Glu Gly Tyr Tyr Glu Glu Arg
 65 70 75 80
 Val Leu Thr Arg Tyr Asp Arg Ala Phe Val Val Ala Leu Phe Glu Arg
 85 90 95
 Ala His Ala Ser Gly Phe Arg Phe Gln Thr Phe Leu Gly Ala Trp Lys
 100 105 110
 Tyr Tyr Thr Ser Tyr Thr Leu Lys Thr Phe Asp Gly Lys Arg Tyr Leu
 115 120 125
 Glu Ser Phe Glu Asp Arg Val Val Met Val Ala Leu Thr Leu Ala Gln
 130 135 140
 Gly Asp Glu Val Leu Ala Glu Ser Leu Thr Glu Glu Ile Leu Ser Gly
 145 150 155 160
 Arg Phe Gln Pro Ala Thr Pro Thr Phe Leu Asn Cys Gly Lys Ala Gln
 165 170 175
 Arg Gly Glu Leu Val Ser Cys Phe Leu Leu Arg Ile Glu Asp Asn Met
 180 185 190
 Glu Ser Ile Gly Arg Ala Val Asn Ser Ala Leu Gln Leu Ser Lys Arg
 195 200 205
 Gly Gly Gly Val Ala Phe Leu Leu Ser Asn Leu Arg Glu Ala Gly Ala
 210 215 220
 Pro Ile Lys Arg Ile Glu Asn Gln Ser Ser Gly Val Ile Pro Val Met
 225 230 235 240
 Lys Met Leu Glu Asp Ala Phe Ser Tyr Ala Asn Gln Leu Gly Ala Arg
 245 250 255
 Gln Gly Ala Gly Ala Val Tyr Leu His Ala His His Pro Asp Ile Leu
 260 265 270
 Arg Phe Leu Asp Thr Lys Arg Glu Asn Ala Asp Glu Lys Ile Arg Ile
 275 280 285
 Lys Thr Leu Ser Leu Gly Val Val Ile Pro Asp Ile Thr Phe Lys Leu
 290 295 300
 Ala Lys Glu Asn Ala Asp Met Ala Leu Phe Ser Pro Tyr Asp Val Glu
 305 310 315 320
 Arg Ile Tyr Gly Lys Ala Phe Gly Asp Val Ala Ile Ser Glu Leu Tyr
 325 330 335
 Asp Glu Leu Val Ala Asp Asp Arg Ile Arg Lys Lys Thr Ile Asn Ala
 340 345 350
 Arg Asp Phe Phe Gln Thr Leu Ala Glu Ile Gln Phe Glu Ser Gly Tyr
 355 360 365
 Pro Tyr Ile Met Tyr Glu Asp Thr Val Asn Arg Ala Asn Pro Ile Gly
 370 375 380
 Gly Arg Ile Asn Met Ser Asn Leu Cys Ser Glu Ile Leu Gln Val Asn
 385 390 395 400
 Ser Ala Ser Ser Tyr Asp Glu Asn Leu Asp Tyr Ala Asp Val Gly Lys
 405 410 415
 Asp Ile Ser Cys Asn Leu Gly Ser Leu Asn Ile Ala His Thr Met Asp
 420 425 430
 Ser Pro Asp Phe Gly Arg Thr Val Glu Thr Ala Ile Arg Gly Leu Thr
 435 440 445
 Ala Val Ser Asp Met Ser His Ile Arg Ser Val Pro Ser Ile Glu Ala
 450 455 460
 Gly Asn Ala Ala Ser His Ala Ile Gly Leu Gly Gln Met Asn Leu His
 465 470 475 480
 Gly Tyr Leu Ala Arg Glu Gly Ile Ala Tyr Gly Ser Pro Glu Gly Leu

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<210> 7596
<211> 323
<212> PRT
<213> Enterobacter cloacae
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Gly 1	Glu	Trp	Met	Lys 5	Leu	Ser	Arg	Val	Ser 10	Ala	Val	Asn	Trp	Asn 15	Lys
Ile	Gln	Asp	Asp 20	Lys	Asp	Leu	Glu	Val 25	Trp	Asn	Arg	Leu	Thr 30	Ser	Asn
Phe	Trp	Leu	Pro	Glu	Lys	Val	Pro	Leu 40	Ser	Asn	Asp	Ile	Pro 45	Ala	Trp
Gln	Thr	Leu	Ser	His	Ala	Glu	Gln	Gln 55	Leu	Thr	Ile	Arg 60	Val	Phe	Thr
Gly 65	Leu	Thr	Leu	Leu	Asp	Thr	Ile	Gln	Asn	Thr	Val	Gly	Ala	Pro	Ala 80
Leu	Met	Ser	Asp	Ala	Leu	Thr	Pro	His	Glu	Glu	Ala	Val	Met	Ser	Asn 95
Ile	Ser	Phe	Met	Glu	Ala	Val	His	Ala	Arg	Ser	Tyr	Ser	Ser	Ile	Phe
Ser	Thr	Leu	Cys	Gln	Thr	Arg	Asp	Val	Asp	Ala	Ala	Tyr	Ala	Trp	Ser
Glu	Glu	Ser	Ala	Ser	Leu	Gln	Arg	Lys	Ala	Asp	Leu	Val	Leu	Glu	Tyr
Tyr 145	Arg	Ala	Asp	Glu	Pro	Leu	Lys	Lys	Lys	Ile	Ala	Ser	Val	Phe	Leu 160
Glu	Ser	Phe	Leu	Phe	Tyr	Ser	Gly	Phe	Trp	Leu	Pro	Met	Tyr	Trp	Ser
Ser	Arg	Gly	Lys	Leu	Thr	Asn	Thr	Ala	Asp	Leu	Ile	Arg	Leu	Ile	Ile
Arg	Asp	Glu	Ala	Val	His	Gly	Tyr	Tyr	Ile	Gly	Tyr	Lys	Tyr	Gln	Lys

	195					200				205					
Gly	Leu	Glu	Lys	Val	Ile	Pro	Glu	Lys	Arg	Glu	Glu	Leu	Lys	Gly	Phe
	210					215					220				
Ala	Leu	Asp	Leu	Leu	Met	Asp	Leu	Tyr	Asp	Asn	Glu	Leu	Ser	Tyr	Thr
225					230					235					240
Glu	Glu	Leu	Tyr	Ala	Gly	Thr	Gly	Trp	Glu	Glu	Asp	Val	Lys	Ala	Phe
				245					250					255	
Leu	Cys	Tyr	Asn	Ala	Asn	Lys	Ala	Leu	Met	Asn	Leu	Gly	Tyr	Glu	Ala
			260					265					270		
Leu	Phe	Pro	Pro	Glu	Met	Ala	Glu	Val	Asn	Pro	Ala	Ile	Leu	Ala	Ala
		275						280					285		
Leu	Ser	Pro	Asn	Ala	Asp	Glu	Asn	His	Asp	Phe	Phe	Ser	Gly	Ser	Gly
	290					295					300				
Ser	Ser	Tyr	Val	Met	Gly	Lys	Ala	Val	Glu	Thr	Gln	Asp	Glu	Asp	Trp
305					310					315					320
Asp	Phe														

<210> 7597

<211> 407

<212> PRT

<213> Enterobacter cloacae

<400> 7597

Gln	Asp	Thr	Leu	Tyr	Cys	Met	Ala	Ile	Lys	Leu	Glu	Val	Lys	Asn	Leu
1				5					10					15	
Tyr	Lys	Val	Phe	Gly	Glu	His	Pro	Gln	Arg	Ala	Phe	Lys	Tyr	Ile	Glu
		20						25					30		
Lys	Gly	Leu	Ser	Lys	Glu	Gln	Ile	Leu	Glu	Lys	Thr	Gly	Leu	Ser	Leu
		35				40						45			
Gly	Val	Lys	Asp	Ala	Ser	Leu	Ala	Ile	Glu	Glu	Gly	Glu	Ile	Phe	Val
	50					55					60				
Ile	Met	Gly	Leu	Ser	Gly	Ser	Gly	Lys	Ser	Thr	Met	Val	Arg	Leu	Leu
65					70					75				80	
Asn	Arg	Leu	Ile	Glu	Pro	Thr	Arg	Gly	Gln	Val	Leu	Ile	Asp	Gly	Val
				85				90						95	
Asp	Ile	Ala	Arg	Ile	Ser	Asp	Ala	Glu	Leu	Arg	Glu	Val	Arg	Arg	Lys
		100						105					110		
Lys	Ile	Ala	Met	Val	Phe	Gln	Ser	Phe	Ala	Leu	Met	Pro	His	Met	Thr
		115						120					125		
Val	Leu	Asp	Asn	Thr	Ala	Phe	Gly	Met	Glu	Leu	Ala	Gly	Ile	Pro	Ala
	130					135						140			
Gln	Glu	Arg	Gln	Glu	Lys	Ala	Leu	Asp	Ala	Leu	Arg	Gln	Val	Gly	Leu
145					150					155					160
Glu	Asn	Tyr	Ala	His	Ala	Tyr	Pro	Asp	Glu	Leu	Ser	Gly	Gly	Met	Arg
				165				170						175	
Gln	Arg	Val	Gly	Leu	Ala	Arg	Ala	Leu	Ala	Ile	Asn	Pro	Asp	Ile	Leu
		180						185					190		
Leu	Met	Asp	Glu	Ala	Phe	Ser	Ala	Leu	Asp	Pro	Leu	Ile	Arg	Thr	Glu
		195						200					205		
Met	Gln	Asp	Glu	Leu	Val	Lys	Leu	Gln	Ala	Lys	His	Gln	Arg	Thr	Ile
	210					215						220			
Val	Phe	Ile	Ser	His	Asp	Leu	Asp	Glu	Ala	Met	Arg	Ile	Gly	Asp	Arg
225					230					235					240
Ile	Ala	Ile	Met	Gln	Asn	Gly	Glu	Val	Val	Gln	Val	Gly	Thr	Pro	Asp
				245						250				255	
Glu	Ile	Leu	Asn	Asn	Pro	Ala	Asn	Asp	Tyr	Val	Arg	Thr	Phe	Phe	Arg
			260					265					270		
Gly	Val	Asp	Ile	Ser	His	Val	Phe	Ser	Ala	Lys	Asp	Ile	Ala	Arg	Arg
		275						280					285		
Thr	Pro	Asn	Gly	Ile	Ile	Arg	Lys	Thr	Pro	Gly	Phe	Gly	Pro	Arg	Ser

290		295		300											
Ala	Leu	Lys	Leu	Leu	Gln	Asp	Glu	Asp	Arg	Glu	Tyr	Gly	Tyr	Leu	Val
305					310					315					320
Glu	Arg	Gly	Asn	Lys	Phe	Val	Gly	Val	Val	Ser	Ile	Asp	Ser	Leu	Lys
			325							330				335	
Thr	Ala	Leu	Ser	Glu	Asn	Gln	Gly	Ile	Asp	Ala	Ala	Leu	Ile	Asp	Ala
			340						345					350	
Pro	Leu	Ala	Val	Asp	Ala	Glu	Thr	Pro	Leu	Ser	Glu	Leu	Leu	Ser	His
		355					360					365			
Val	Gly	Gln	Ala	Pro	Cys	Ala	Val	Pro	Val	Val	Gly	Glu	Glu	Gln	Gln
	370					375					380				
Tyr	Val	Gly	Ile	Ile	Ser	Lys	Arg	Met	Leu	Leu	Gln	Ala	Leu	Asp	Arg
385					390					395					400
Glu	Gly	Thr	Asn	Asn	Gly										
				405											

<210> 7598

<211> 404

<212> PRT

<213> Enterobacter cloacae

<400> 7598

Ser	Leu	Asn	Ser	Arg	Phe	Leu	Lys	Leu	Met	Thr	Lys	Thr	Thr	Gln	Gly
1				5					10					15	
Leu	Ser	Pro	Ala	Leu	Ile	Leu	Leu	Met	Ser	Val	Ala	Thr	Gly	Leu	Ala
			20					25					30		
Val	Ala	Ser	Asn	Tyr	Tyr	Ala	Gln	Pro	Leu	Leu	Asp	Thr	Ile	Ala	Arg
		35				40					45				
Ala	Phe	Asp	Leu	Ser	Ala	Ser	Ser	Ala	Gly	Phe	Ile	Val	Thr	Ala	Ala
	50					55				60					
Gln	Leu	Gly	Tyr	Ala	Ala	Gly	Leu	Leu	Phe	Leu	Val	Pro	Leu	Gly	Asp
65				70					75					80	
Met	Phe	Glu	Arg	Arg	Met	Leu	Ile	Val	Ser	Met	Thr	Leu	Leu	Ala	Ala
			85					90						95	
Gly	Gly	Met	Leu	Ile	Thr	Ala	Ser	Ser	Gln	Ser	Leu	Thr	Met	Met	Ile
		100						105					110		
Ile	Gly	Thr	Ala	Leu	Thr	Gly	Leu	Phe	Ser	Val	Val	Ala	Gln	Ile	Leu
		115				120						125			
Val	Pro	Leu	Ala	Ala	Thr	Leu	Ala	Ser	Pro	Glu	Lys	Arg	Gly	Lys	Val
	130					135					140				
Val	Gly	Thr	Ile	Met	Ser	Gly	Leu	Leu	Leu	Gly	Ile	Leu	Leu	Ala	Arg
145				150						155				160	
Thr	Val	Ala	Gly	Leu	Leu	Ala	Ser	Leu	Gly	Gly	Trp	Arg	Thr	Val	Tyr
			165					170						175	
Trp	Val	Ala	Ser	Val	Leu	Met	Leu	Ile	Met	Ala	Leu	Ala	Leu	Trp	Arg
		180						185					190		
Gly	Leu	Pro	Lys	Val	Lys	Gln	Glu	Asn	His	Leu	Asn	Tyr	Pro	Gln	Leu
		195				200						205			
Leu	Ala	Ser	Val	Phe	Ser	Leu	Phe	Thr	Arg	Asp	Lys	Leu	Leu	Arg	Thr
	210					215					220				
Arg	Ala	Ile	Leu	Gly	Cys	Leu	Thr	Phe	Ala	Asn	Phe	Ser	Ile	Leu	Trp
225				230						235				240	
Thr	Ser	Met	Ala	Phe	Leu	Leu	Ala	Ala	Pro	Pro	Phe	Asn	Tyr	Ser	Glu
			245						250					255	
Gly	Val	Ile	Gly	Leu	Phe	Gly	Leu	Ala	Gly	Ala	Ala	Gly	Ala	Leu	Gly
		260				265						270			
Ala	Arg	Pro	Ala	Gly	Gly	Leu	Ala	Asp	Lys	Gly	Lys	Ser	His	Met	Thr
		275				280						285			
Thr	Ser	Ala	Gly	Leu	Val	Leu	Leu	Leu	Leu	Ser	Trp	Ala	Ala	Ile	Trp
	290					295					300				
Tyr	Gly	His	Val	Ser	Val	Leu	Ala	Leu	Ile	Val	Gly	Ile	Leu	Val	Leu

305 310 315 320
 Asp Leu Thr Val Gln Gly Val His Ile Thr Asn Gln Thr Val Ile Tyr
 325 330 335
 Arg Met Lys Pro Asp Ala Arg Asn Arg Leu Thr Ala Gly Tyr Met Thr
 340 345 350
 Ser Tyr Phe Ile Gly Gly Ala Ala Gly Ser Leu Ile Ser Ala Ser Ala
 355 360 365
 Trp Gln His Ala Gly Trp Thr Gly Val Cys Ala Ile Gly Ala Ile Val
 370 375 380
 Ala Ala Ile Asn Leu Leu Val Trp Trp Arg Gly Tyr His Arg Gln Glu
 385 390 395 400
 Ala Ile His

<210> 7599

<211> 408

<212> PRT

<213> Enterobacter cloacae

<400> 7599

Gln Gln Val Gly Ser Ala Asp Val Lys Ile Lys Arg Ser Trp Arg Thr
 1 5 10 15
 Thr Met Ser Ala Asn Ala Glu Asn Thr Pro Pro Gln Gln Pro Val Asn
 20 25 30
 Lys Lys Gly Lys Arg Lys Ser Ala Leu Ile Leu Leu Thr Leu Leu Phe
 35 40 45
 Ile Ile Ile Ala Val Ala Tyr Gly Ile Tyr Trp Phe Leu Val Leu Arg
 50 55 60
 His Val Glu Glu Thr Asp Ala Tyr Val Ala Gly Asn Gln Val Gln
 65 70 75 80
 Ile Met Ala Gln Val Ser Gly Ser Val Thr Lys Val Trp Ala Asp Asn
 85 90 95
 Thr Asp Phe Val Lys Lys Ser Asp Val Leu Val Thr Leu Asp Pro Thr
 100 105 110
 Asp Ala Gln Gln Ala Phe Glu Lys Ala Gln Thr Ala Leu Ala Ser Ser
 115 120 125
 Val Arg Gln Thr Arg Gln Leu Met Ile Asn Ser Lys Gln Leu Gln Ala
 130 135 140
 Asn Ile Asp Val Gln Lys Thr Ala Leu Ala Gln Ala Gln Ser Asp Leu
 145 150 155 160
 Asn Arg Arg Val Pro Leu Gly Thr Ala Asn Leu Ile Gly Arg Glu Glu
 165 170 175
 Leu Gln His Ala Arg Asp Ala Val Ala Ser Ala Gln Ala Gln Leu Asp
 180 185 190
 Val Ala Ile Gln Gln Tyr Asn Ala Asn Gln Ala Met Val Leu Gly Thr
 195 200 205
 Ser Leu Glu Asn Gln Pro Ala Val Lys Gln Ala Ala Thr Glu Val Arg
 210 215 220
 Asn Ala Trp Leu Ala Leu Gln Arg Thr Lys Ile Val Ser Pro Met Thr
 225 230 235 240
 Gly Tyr Val Ser Arg Arg Ser Val Gln Pro Gly Ala Gln Ile Ser Thr
 245 250 255
 Thr Thr Pro Leu Met Ala Val Val Pro Ala Asn Asn Leu Trp Val Asp
 260 265 270
 Ala Asn Phe Lys Glu Thr Gln Leu Ala His Met Arg Ile Gly Gln Thr
 275 280 285
 Ala Thr Val Val Ser Asp Ile Tyr Gly Asp Asp Ile Lys Tyr Thr Gly
 290 295 300
 Lys Val Val Gly Leu Asp Met Gly Thr Gly Ser Ala Phe Ser Leu Leu
 305 310 315 320
 Pro Ala Gln Asn Ala Thr Gly Asn Trp Ile Lys Val Val Gln Arg Leu

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          325          330          335
Pro Val Arg Ile Glu Leu Asp Pro Lys Gln Leu Ala Asp His Pro Leu
          340          345          350
Arg Ile Gly Leu Ser Thr Leu Val Thr Val Asp Thr Ala Asn Arg Asp
          355          360          365
Gly Gln Ile Leu Ala Ser Gln Val Arg Ser Thr Pro Ala Tyr Glu Ser
          370          375          380
Asn Ala Arg Glu Ile Ser Leu Asp Pro Val Asn Lys Leu Ile Asp Asp
          385          390          395          400
Ile Val Lys Ala Asn Ala Gly
          405

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<210> 7600

<211> 162

<212> PRT

<213> Enterobacter cloacae

<400> 7600

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Asn Ala Thr Phe Leu Ser Cys Ser Arg Ser Ser Asp Met Phe Ser Pro
1          5          10          15
Gln Ser Arg Leu Arg His Ala Val Ala Asp Thr Phe Ala Met Val Val
          20          25          30
Tyr Cys Ser Val Val Asn Met Leu Ile Glu Ile Phe Leu Ser Gly Met
          35          40          45
Ser Phe Glu Gln Ser Leu Ser Ser Arg Leu Val Ala Ile Pro Val Asn
          50          55          60
Ile Met Ile Ala Trp Pro Tyr Gly Leu Tyr Arg Asp Ala Val Met Arg
65          70          75          80
Leu Ala Arg Arg Ile Ser Pro Ala Gly Trp Val Lys Asn Leu Ala Asp
          85          90          95
Val Leu Ala Tyr Val Thr Phe Gln Ser Pro Val Tyr Val Phe Ile Leu
          100          105          110
Leu Thr Val Gly Ala Asp Trp His Gln Ile Ala Ala Val Ser Ser
          115          120          125
Asn Ile Val Val Ser Met Leu Met Gly Ala Val Tyr Gly Tyr Phe Leu
130          135          140
Asp Tyr Cys Arg Arg Leu Phe Lys Val Ser Pro Tyr Ser Gln Ala Lys
145          150          155          160
Ala

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<210> 7601

<211> 182

<212> PRT

<213> Enterobacter cloacae

<400> 7601

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Ser Gly Ala Arg Arg Gly Arg His Pro Ala Gly Ala Gly Phe Pro Ser
1          5          10          15
Ala Ser Gly Cys Gly Cys Arg Arg His Gln Leu Val Trp Leu Pro Ser
          20          25          30
Gly His Asp Gln Pro Pro Cys Arg Ser Gly Arg Gln Cys Met Ser Thr
          35          40          45
Leu Val Tyr Phe Ser Ser Ser Ser Glu Asn Thr Leu Arg Phe Met Glu
          50          55          60
Arg Leu Gly Leu Pro Ala Ile Arg Ile Pro Leu Asn Glu Arg Glu Arg
65          70          75          80
Ile Gln Val Asp Glu Pro Tyr Ile Leu Val Val Pro Ser Tyr Gly Gly
          85          90          95
Gly Gly Thr Ala Gly Ala Val Pro Arg Gln Val Ile Arg Phe Leu Asn
          100          105          110

```

Asp Pro His Asn Arg Gln Leu Ile Arg Gly Val Ile Ala Ala Gly Asn
 115 120 125
 Arg Asn Phe Gly Glu Ala Phe Ala Arg Ala Gly Asp Val Ile Ser Gln
 130 135 140
 Lys Cys Gly Val Pro Tyr Leu Tyr Arg Phe Glu Leu Met Gly Thr Gln
 145 150 155 160
 Gln Asp Val Glu Asn Val Arg Lys Gly Val Asn Glu Phe Trp Gln Arg
 165 170 175
 Gln Pro Gln Ser Ala
 180

<210> 7602

<211> 361

<212> PRT

<213> Enterobacter cloacae

<400> 7602

Ile Ala Arg Gly Gln Thr Met Ala Asp Gln Ser Asn Pro Trp Gly Thr
 1 5 10 15
 Thr Glu Ala Ala Asp Ser Ala Ala Gln Ser Ala Asp Ala Trp Gly Ser
 20 25 30
 Thr Pro Ala Pro Ala Asp Gly Gly Gly Ala Ala Asp Trp Leu Asn Ser
 35 40 45
 Ala Pro Ala Pro Ala Pro Glu His Phe Asn Ile Met Asp Pro Phe His
 50 55 60
 Lys Thr Leu Ile Pro Leu Asp Ser Trp Val Thr Glu Gly Ile Asp Trp
 65 70 75 80
 Val Val Thr His Phe Arg Pro Val Phe Gln Gly Ile Arg Ile Pro Val
 85 90 95
 Asp Tyr Ile Leu Asn Gly Phe Gln Gln Leu Met Leu Gly Met Pro Ala
 100 105 110
 Pro Val Ala Ile Ile Leu Phe Ser Leu Ile Ala Trp Gln Phe Gly Ser
 115 120 125
 Ala Gly Met Gly Ile Ala Thr Leu Ile Ser Leu Ile Ala Ile Gly Ala
 130 135 140
 Ile Gly Ala Trp Ser Gln Ala Met Ile Thr Leu Ala Leu Val Leu Thr
 145 150 155 160
 Ala Leu Leu Phe Cys Val Val Ile Gly Leu Pro Met Gly Ile Trp Leu
 165 170 175
 Ala Arg Ser Pro Arg Ala Ala Lys Ile Ile Arg Pro Leu Leu Asp Ala
 180 185 190
 Met Gln Thr Thr Pro Ala Phe Val Tyr Leu Val Pro Ile Val Met Leu
 195 200 205
 Phe Gly Ile Gly Asn Val Pro Gly Val Val Val Thr Ile Ile Phe Ala
 210 215 220
 Leu Pro Pro Ile Ile Arg Leu Thr Ile Leu Gly Ile Asn Gln Val Pro
 225 230 235 240
 Ala Asp Leu Ile Glu Ala Ser Arg Ser Phe Gly Ala Ser Pro Arg Gln
 245 250 255
 Met Leu Phe Lys Val Gln Leu Pro Leu Ala Met Pro Thr Ile Met Ala
 260 265 270
 Gly Val Asn Gln Thr Leu Met Leu Ala Leu Ser Met Val Val Ile Ala
 275 280 285
 Ser Met Ile Ala Val Gly Gly Leu Gly Gln Met Val Leu Arg Gly Ile
 290 295 300
 Gly Arg Leu Asp Met Gly Leu Ala Thr Val Gly Gly Val Gly Ile Val
 305 310 315 320
 Ile Leu Ala Ile Ile Leu Asp Arg Leu Thr Gln Ala Val Gly Arg Asp
 325 330 335
 Ser Arg Ser Arg Gly Asn Arg Arg Trp Tyr Thr Thr Gly Pro Val Gly
 340 345 350

Leu Leu Thr Arg Pro Phe Thr Lys
 355 360

<210> 7603

<211> 335

<212> PRT

<213> Enterobacter cloacae

<400> 7603

Gly Thr Thr Met Arg His Asn Val Leu Phe Ala Thr Ala Phe Ala Thr
 1 5 10 15
 Leu Val Ser Thr Ser Ala Val Ala Ala Asp Leu Pro Gly Lys Gly Ile
 20 25 30
 Thr Val Gln Pro Val Gln Ser Thr Ile Ser Glu Glu Ser Phe Gln Thr
 35 40 45
 Gln Ile Val Ser Arg Ala Leu Glu Lys Leu Gly Tyr Thr Val Asn Thr
 50 55 60
 Ala Ser Glu Val Asp Tyr Asn Val Gly Tyr Thr Ser Ile Ala Ser Gly
 65 70 75 80
 Asp Ala Thr Phe Thr Ala Val Asn Trp Gln Pro Leu His Asp Asp Met
 85 90 95
 Tyr Ala Ala Ala Gly Gly Asp Lys Lys Phe Tyr Arg Glu Gly Thr Phe
 100 105 110
 Val Thr Gly Ala Ala Gln Gly Tyr Leu Ile Asp Lys Lys Thr Ala Asp
 115 120 125
 Lys Tyr His Ile Thr Asn Ile Glu Gln Leu Lys Asp Pro Lys Ile Ala
 130 135 140
 Lys Leu Phe Asp Thr Asn Gly Asp Gly Lys Ala Asp Met Met Gly Cys
 145 150 155 160
 Ser Pro Gly Trp Gly Cys Glu Ala Val Ile Asn His Gln Asn Lys Ala
 165 170 175
 Phe Asp Leu Ala Lys Thr Val Asp Val Ser His Gly Asn Tyr Ser Ala
 180 185 190
 Met Met Ala Asp Thr Ile Ala Arg Phe Lys Glu Gly Lys Pro Val Ile
 195 200 205
 Tyr Tyr Thr Trp Thr Pro Tyr Trp Val Ser Asp Val Leu Lys Pro Gly
 210 215 220
 Lys Asp Val Val Trp Leu Gln Val Pro Phe Ser Ser Leu Pro Gly Glu
 225 230 235 240
 Gln Lys Asp Ile Asp Thr Lys Leu Pro Asn Gly Met Asn Tyr Gly Phe
 245 250 255
 Pro Val Asn Thr Met His Ile Val Ala Asn Lys Ala Trp Ala Glu Lys
 260 265 270
 Asn Pro Ala Ala Ala Lys Leu Phe Ser Val Met Lys Leu Pro Leu Ala
 275 280 285
 Asp Ile Asn Ala Gln Asn Ala Met Met His Ala Gly Lys Ser Ser Glu
 290 295 300
 Ala Asp Ile Lys Gly His Val Asp Gly Trp Ile Lys Ala His Gln Gln
 305 310 315 320
 Gln Phe Asp Gly Trp Val Lys Glu Ala Leu Glu Ala Gln Lys
 325 330 335

<210> 7604

<211> 527

<212> PRT

<213> Enterobacter cloacae

<400> 7604

Arg Gln Thr Pro Val Lys Pro Lys Val Ser Val Met Gln Gln Gln Lys
 1 5 10 15
 Pro Gln Lys Pro Leu Glu Gly Ala Gln Leu Val Ile Met Thr Ile Ala

				20				25					30		
Leu	Ser	Leu	Ala	Thr	Phe	Met	Gln	Val	Leu	Asp	Ser	Thr	Ile	Ala	Asn
		35					40					45			
Val	Ala	Ile	Pro	Thr	Ile	Ala	Gly	Asn	Leu	Gly	Ser	Ser	Leu	Ser	Gln
	50					55					60				
Gly	Thr	Trp	Val	Ile	Thr	Ser	Phe	Gly	Val	Ala	Asn	Ala	Ile	Ser	Ile
65					70					75					80
Pro	Ile	Thr	Gly	Trp	Leu	Ala	Lys	Arg	Val	Gly	Glu	Val	Lys	Leu	Phe
				85					90					95	
Leu	Trp	Ser	Thr	Ile	Leu	Phe	Val	Leu	Ala	Ser	Trp	Ala	Cys	Gly	Met
			100					105					110		
Ser	Ser	Ser	Leu	Thr	Met	Leu	Ile	Phe	Phe	Arg	Val	Ile	Gln	Gly	Ile
		115					120					125			
Val	Ala	Gly	Pro	Leu	Ile	Pro	Leu	Ser	Gln	Ser	Leu	Leu	Leu	Asn	Asn
	130					135					140				
Tyr	Pro	Pro	Ala	Lys	Arg	Ser	Ile	Ala	Leu	Ala	Leu	Trp	Ser	Met	Thr
145					150					155					160
Val	Ile	Val	Ala	Pro	Ile	Cys	Gly	Pro	Ile	Leu	Gly	Gly	Tyr	Ile	Ser
				165					170					175	
Asp	Asn	Tyr	His	Trp	Gly	Trp	Ile	Phe	Phe	Ile	Asn	Val	Pro	Ile	Gly
			180					185					190		
Ala	Leu	Val	Val	Leu	Met	Thr	Leu	Gln	Ser	Leu	Arg	Gly	Arg	Glu	Thr
		195					200					205			
Arg	Thr	Glu	Gln	Arg	Arg	Ile	Asp	Gly	Ile	Gly	Leu	Ala	Leu	Leu	Val
	210					215					220				
Val	Gly	Ile	Gly	Ser	Leu	Gln	Ile	Met	Leu	Asp	Arg	Gly	Lys	Glu	Leu
225					230					235					240
Asp	Trp	Phe	Ala	Ser	Thr	Glu	Ile	Ile	Val	Leu	Thr	Val	Val	Ala	Val
				245					250					255	
Val	Ala	Ile	Ser	Phe	Leu	Ile	Val	Trp	Glu	Leu	Thr	Asp	Asp	Asn	Pro
			260				265						270		
Ile	Val	Asp	Leu	Ser	Leu	Phe	Lys	Ser	Arg	Asn	Phe	Thr	Ile	Gly	Cys
		275					280					285			
Leu	Cys	Ile	Ser	Leu	Ala	Tyr	Met	Leu	Tyr	Phe	Gly	Ala	Ile	Val	Leu
	290					295					300				
Leu	Pro	Gln	Leu	Leu	Gln	Glu	Val	Tyr	Gly	Tyr	Thr	Ala	Thr	Trp	Ala
305					310					315					320
Gly	Leu	Ala	Ser	Ala	Pro	Val	Gly	Leu	Ile	Pro	Val	Leu	Leu	Ser	Pro
				325						330				335	
Ile	Ile	Gly	Arg	Phe	Ala	His	Lys	Leu	Asp	Met	Arg	Arg	Leu	Val	Thr
			340					345					350		
Phe	Ser	Phe	Ile	Met	Tyr	Ala	Val	Cys	Phe	Tyr	Trp	Arg	Ala	Tyr	Thr
		355					360					365			
Phe	Glu	Pro	Gly	Met	Asp	Phe	Gly	Ala	Ser	Ala	Trp	Pro	Gln	Phe	Ile
	370														

Lys Pro Pro Phe Gly Ala Gly Ser Gly Gly Gly Gly Ala His
 515 520 525

<210> 7605

<211> 118

<212> PRT

<213> Enterobacter cloacae

<400> 7605

Thr Gly Thr Gln Ile Met Glu Asp Arg Met Phe Asn Arg Pro Asn Arg
 1 5 10 15
 Asn Asp Ile Asn Asp Asp Thr Gln Asp Ile Arg Asn Asp Val Ser Gln
 20 25 30
 Leu Ala Asp Thr Leu Glu Ala Val Leu Lys Ser Trp Gly Ser Asp Ala
 35 40 45
 Lys Asp Glu Ala Asp Ala Ala Lys Arg Lys Ala Gln Ser Leu Leu Arg
 50 55 60
 Glu Thr Arg Ala Arg Met Asn Gly Arg Ser Arg Thr Thr Gln Ala Ala
 65 70 75 80
 Cys Asp Met Ala Ser Cys Ala Thr Thr Phe Val Arg Glu Lys Pro Leu
 85 90 95
 Cys Thr Leu Gly Thr Val Ala Ala Val Gly Ile Phe Val Gly Ala Leu
 100 105 110
 Leu Ser Leu Arg Lys
 115

<210> 7606

<211> 85

<212> PRT

<213> Enterobacter cloacae

<400> 7606

Met Glu Met Arg Ile Met Ser Ile Ile Ile Tyr Thr Arg Asn Asp Cys
 1 5 10 15
 Val Gln Cys His Ala Thr Lys Arg Ala Met Glu Ser Arg Gly Val Ala
 20 25 30
 Phe Glu Met Val Asn Ile Asp Gln Val Pro Asp Ala Ala Asp Thr Leu
 35 40 45
 Arg Ala Gln Gly Phe Arg Gln Leu Pro Val Val Val Ala Gly Asp Thr
 50 55 60
 Ser Trp Ser Gly Phe Arg Pro Asp Met Ile Asn Arg Leu Ala Ala Gln
 65 70 75 80
 Gly Val Ser Ala
 85

<210> 7607

<211> 209

<212> PRT

<213> Enterobacter cloacae

<400> 7607

His Thr Phe Gly Gly Tyr Asn Arg Thr Asn Asn Ser Phe Thr Leu Phe
 1 5 10 15
 Val Thr Val Val Thr Ile Ser Ala Val Ile Asn Glu Val Met Pro Lys
 20 25 30
 Met Asp Ser Ser Phe Thr Pro Ile Glu Gln Met Leu Lys Phe Arg Ala
 35 40 45
 Ser Arg His Glu Asp Phe Pro Tyr Gln Glu Ile Leu Leu Thr Arg Leu
 50 55 60
 Cys Met His Met Gln Gly Lys Leu Leu Glu Asn Arg Asn Lys Met Leu
 65 70 75 80

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<210> 7608
<211> 565
<212> PRT
<213> Enterobacter cloacae
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Asn 1	Arg	Phe	Thr	Ile 5	Val	Lys	Arg	Gln	Gln 10	Glu	Arg	Thr	Met	Leu 15	Asn
Thr	Pro	Ala	Asp 20	Lys	Tyr	Gln	Pro	Tyr 25	Pro	Thr	Leu	Ser 30	Leu	Pro	Asp
Arg	Arg	Trp 35	Pro	Glu	Gln	Ile 40	Ile	Thr	Cys	Ala	Pro	Arg 45	Trp	Leu	Ser
Thr	Asp 50	Leu	Arg	Asp	Gly 55	Asn	Gln	Ala	Leu	Ala 60	Glu	Pro	Met	Asp	Ser
Ala 65	Arg	Lys	Leu	Gln	Phe 70	Trp	Asp	Leu	Leu 75	Leu	Thr	Cys	Gly	Phe	Lys 80
Glu	Ile	Glu	Val	Ala 85	Phe	Pro	Ser	Ala 90	Ser	Gln	Thr	Asp	Phe	Asn 95	Phe
Val	Arg	Gln	Leu 100	Ile	Glu	Glu	Asn	Arg 105	Ile	Pro	Asp	Asp 110	Val	Thr	Ile
Gln	Val	Leu 115	Thr	Gln	Ala	Arg	Asp 120	Asp	Leu	Ile	His	Arg 125	Thr	Phe	Asp
Ser	Leu 130	Arg	Gly	Ala	Lys 135	Gln	Ala	Thr	Val	His 140	Leu	Tyr	Asn	Ala	Thr
Ala 145	Pro	Leu	Phe	Arg	Arg 150	Leu	Val	Phe	Gly 155	Met	Glu	Lys	Ala	Gln	Ile 160
Val	Glu	Leu	Ala	Thr 165	Arg	Ala	Thr	Arg	Leu 170	Ile	Arg	Gln	Leu	Cys 175	Glu
Glu	Asn	Pro	Asp 180	Thr	Arg	Trp	Gln	Tyr 185	Glu	Tyr	Ser	Pro	Glu	Thr	Phe
Cys	Phe	Thr 195	Glu	Pro	Glu	Phe 200	Leu	Glu	Ile	Cys 205	Glu	Ala	Val	Ala	
Glu	Ile 210	Trp	Gln	Pro	Cys 215	Ala	Ala	Arg	Pro	Met 220	Ile	Val	Asn	Leu	Pro
Ala 225	Thr	Val	Glu	Val	Ser 230	Thr	Pro	Asn	Val	Tyr 235	Ala	Asp	Gln	Ile	Glu 240
Tyr	Phe	Cys	Arg	His 245	Phe	Ser	Arg	Arg	Ser 250	Asp	Val	Cys	Ile	Ser 255	Val
His	Pro	His	Asn 260	Asp	Arg	Gly	Thr	Gly 265	Val	Ala	Ser	Ala	Glu	Leu	Ala
Val	Met	Ala 275	Gly	Ala	Asp	Arg	Val	Glu 280	Gly	Cys	Leu	Phe 285	Gly	Asn	Gly

Glu Arg Thr Gly Asn Val Cys Leu Val Thr Leu Ala Met Asn Leu Tyr
 290 295 300
 Ser Gln Gly Ile Ser Pro Asn Leu Asp Phe Ser Asp Met Asn Arg Val
 305 310 315 320
 Val Glu Thr Val Glu Thr Cys Asn Gln Leu Pro Val His Pro Arg His
 325 330 335
 Pro Trp Ala Gly Arg Leu Ala Tyr Thr Ala Phe Ser Gly Ser His Gln
 340 345 350
 Asp Ala Ile Lys Lys Gly Phe Asp Ala Arg Lys Pro Gly Glu Arg Trp
 355 360 365
 Glu Met Pro Tyr Leu Pro Val Asp Pro Gln Asp Ile Gly Cys Thr Tyr
 370 375 380
 Glu Ala Val Ile Arg Val Asn Ser Gln Ser Gly Lys Ser Gly Ser Ala
 385 390 395 400
 Trp Leu Ile Glu Gln Asn His Gly Leu Lys Leu Pro Arg Ala Leu Gln
 405 410 415
 Gln Asp Phe Ser Gln His Val Gln Gln Glu Thr Asp Asn His Gly Lys
 420 425 430
 Glu Met Thr Gln Asn Ala Leu Trp Gln Leu Phe Arg Ala Arg Tyr Gly
 435 440 445
 Leu Val Ala Ser Pro Pro Leu Ala Leu Gln Ser Tyr Arg Ser Asp Ser
 450 455 460
 Gln Gln Asp Gly Gln Leu Arg Leu Thr Ala Ser Val Ala Thr His Gly
 465 470 475 480
 Gly Thr Arg Gln Leu Glu Gly Gln Gly Asn Gly Leu Leu Ser Ala Ala
 485 490 495
 Ala His Gly Leu Ser Arg Trp Ile Asn Ala Ser Phe Val Ile Lys Asp
 500 505 510
 Tyr His Glu His Thr Leu Gly Glu Arg Ser Asp Ser Arg Ser Val Ala
 515 520 525
 Tyr Ile Arg Cys Leu Phe Gln Asp Gly Thr Ser Arg Trp Gly Val Gly
 530 535 540
 Ile Asp Ser Asp Val Ala Arg Ala Ser Ile Gln Ala Leu Phe Asn Ala
 545 550 555 560
 Val Ser Arg Ser
 565

<210> 7609

<211> 145

<212> PRT

<213> Enterobacter cloacae

<400> 7609

Ser Phe Ser Glu Ser Thr Met Tyr Ala Gln Tyr Asp Gly Leu Ile Phe
 1 5 10 15
 Asp Met Asp Gly Thr Leu Leu Asp Thr Glu Pro Thr His Arg Gln Ala
 20 25 30
 Trp Thr Glu Val Leu Gly Arg Tyr Gly Met Arg Phe Asp Leu Gln Ala
 35 40 45
 Met Ile Ala Leu Asn Gly Ser Pro Thr Trp Arg Ile Ala Gln Ala Val
 50 55 60
 Ile Glu Leu Asn Gln Ala Asp Leu Asp Pro His Gln Leu Ala Arg Glu
 65 70 75 80
 Lys Thr Asp Ala Val Lys Ala Met Leu Leu Asp Thr Val Gln Pro Leu
 85 90 95
 Pro Leu Ile Asp Val Val Lys Glu Trp His Gly Arg Arg Pro Met Ser
 100 105 110
 Val Gly Thr Gly Ser Glu Ser Ala Ile Ala Glu Ala Leu Leu Asn His
 115 120 125
 Leu Gly Pro Ala Pro Leu Phe Phe Cys Arg Arg Cys Arg Arg Ser Cys
 130 135 140

145

<210> 7610

<211> 154

<212> PRT

<213> Enterobacter cloacae

<400> 7610

Cys Arg Asn Gly Gly Gly Gly Arg Ser Leu Thr Val Ser Asp Ala Leu
 1 5 10 15
 Ser Leu Ala Ser Leu Phe Ala Ser Ser Phe Leu Ser Ser Thr Leu Leu
 20 25 30
 Pro Gly Asn Ser Glu Val Val Leu Val Ala Met Leu Leu Ser Gly Val
 35 40 45
 Ser Gln Pro Trp Leu Leu Val Leu Ile Ala Thr Met Gly Asn Ser Leu
 50 55 60
 Gly Gly Leu Thr Asn Val Ile Leu Gly Arg Phe Phe Pro Leu Arg Glu
 65 70 75 80
 Lys Ser Arg Trp Gln Glu Lys Ala Val Gly Trp Leu Lys Arg Tyr Gly
 85 90 95
 Ala Ala Thr Leu Leu Leu Ser Trp Met Pro Val Ile Gly Asp Leu Leu
 100 105 110
 Cys Leu Leu Ala Gly Trp Met Arg Ile Ser Trp Gly Pro Val Leu Phe
 115 120 125
 Phe Leu Cys Leu Gly Lys Ala Leu Arg Tyr Val Leu Leu Ala Trp Val
 130 135 140
 Thr Leu Gln Gly Ile Thr Trp Trp His
 145 150

<210> 7611

<211> 295

<212> PRT

<213> Enterobacter cloacae

<400> 7611

Cys Ser Cys Lys Gln Gln Arg Arg Ala Gly Pro Ala Lys Arg Lys Thr
 1 5 10 15
 Ser Gly Thr Ala His Leu Val Ser Cys Leu Trp Met Pro Gly Gly Ala
 20 25 30
 Ser Leu Thr Gly Pro Thr Ile Leu Met Thr Thr Thr Thr Thr Phe Ser
 35 40 45
 Phe Thr His Arg Pro Leu Val Pro Phe Ser His Asp Tyr Ala His Gly
 50 55 60
 Asp Ser Glu Pro Trp His Gln His Asp Cys Ala Gln Leu Leu His Ser
 65 70 75 80
 Leu Thr Gly Val Val Arg Val Asp Thr Ala Ser Gly Cys Trp Val Val
 85 90 95
 Pro Pro Gly Arg Gly Val Trp Leu Pro Ala Gly Thr Gln His Ala Leu
 100 105 110
 Arg Ile Thr Gly Asn Val Ala Ala Arg Thr Leu Phe Ile Asp Pro Leu
 115 120 125
 Ala Arg Ala Asp Leu Pro Ala Thr Cys Gln Ile Val Gln Ile Ser Pro
 130 135 140
 Leu Leu Arg Glu Leu Ile Leu Thr Ser Leu Thr Leu Pro Glu Ser Tyr
 145 150 155 160
 Ala Pro Gly Ser Arg Asp Glu Arg Val Tyr Glu Leu Ile Leu Asp Glu
 165 170 175
 Ile Arg Leu Met Pro Val Leu Pro Phe His Leu Pro Glu Pro Glu Ser
 180 185 190
 Glu Ala Leu Arg His Leu Cys Gln Gln Ile Arg Met Ala Pro Gly Glu

195 200 205
 Ser Trp Ser Ser Ala Gln Ala Ala Gly Ile Val Gly Met Ser Glu Arg
 210 215 220
 Thr Leu Asn Arg His Phe Gln Gln Gln Thr Gly Leu Ser Tyr Gly Glu
 225 230 235 240
 Trp Val Arg Arg Ala Arg Leu Leu Glu Ala Leu Val Arg Leu Ala Gln
 245 250 255
 Gly Gln Pro Val Leu Arg Val Ala Leu Asp Leu Gly Tyr Gly Ser His
 260 265 270
 Ser Ala Phe Thr Ala Met Phe Arg Arg Val Met Gly Leu Ser Pro Ser
 275 280 285
 Asp Tyr Phe Arg Asn Asp
 290 295

<210> 7612
 <211> 118
 <212> PRT
 <213> Enterobacter cloacae

<400> 7612
 Gly Lys Asp Met Tyr Leu Arg Pro Asp Glu Val Ala Arg Val Leu Glu
 1 5 10 15
 Lys Glu Gly Phe Thr Met Asp Glu Val Thr Ser Lys Ala Tyr Gly Tyr
 20 25 30
 Arg Arg Gly Glu Asn Tyr Val Tyr Val Asn Arg Glu Ala Arg Met Gly
 35 40 45
 Arg Thr Ala Leu Ile Ile His Pro Thr Leu Lys Asp Arg Ser Leu Ser
 50 55 60
 Phe Ala Glu Pro Ala Ser Asp Ile Lys Thr Cys Asp His Tyr Gln Gln
 65 70 75 80
 Phe Pro Leu Tyr Leu Gly Gly Glu Thr His Glu His Tyr Gly Ile Pro
 85 90 95
 His Gly Phe Ser Ser Arg Met Ala Leu Glu Arg Phe Leu Lys Gly Leu
 100 105 110
 Phe Gly Asp Val Gln
 115

<210> 7613
 <211> 105
 <212> PRT
 <213> Enterobacter cloacae

<400> 7613
 Thr Pro Cys Ser Leu Tyr His Ser Leu Thr Ser Ser Arg Ser Gly Thr
 1 5 10 15
 Ala Val Val Leu Cys Leu Ser Val Arg Ala Ala Arg Ala Arg Leu Leu
 20 25 30
 Lys Arg Tyr Ser Ile Thr Leu Gly Leu Arg His Tyr Phe Ser Ala Val
 35 40 45
 Val Ala Ala Asp His Val Lys His His Lys Pro Ala Pro Asp Thr Phe
 50 55 60
 Leu Leu Cys Ala Glu Leu Met Gly Val Pro Pro Ala Lys Cys Val Val
 65 70 75 80
 Phe Glu Asp Ala Asp Phe Gly Ile Gln Pro Ala Arg Asp Ala Gly Met
 85 90 95
 Ala Ala Val Asp Val Arg Leu Leu
 100 105

<210> 7614
 <211> 173
 <212> PRT

<213> *Enterobacter cloacae*

<400> 7614

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Arg Met Pro Leu Leu Asp Ser Phe Thr Val Asp His Thr Arg Met Glu
1          5          10          15
Ala Pro Ala Val Arg Val Ala Lys Thr Met Asn Thr Pro His Gly Asp
          20          25          30
Thr Ile Thr Val Phe Asp Leu Arg Phe Cys Val Pro Asn Lys Glu Val
          35          40          45
Met Pro Glu Lys Gly Ile His Thr Leu Glu His Leu Phe Ala Gly Phe
          50          55          60
Met Arg Asp His Leu Asn Gly Asn Gly Val Glu Ile Ile Asp Ile Ser
65          70          75          80
Pro Met Gly Cys Arg Thr Gly Phe Tyr Met Ser Leu Ile Gly Gln Pro
          85          90          95
Glu Glu Lys Arg Val Ala Asp Ala Trp Lys Ala Ala Met Glu Asp Val
          100          105          110
Leu Lys Val Lys Glu Gln Asn Gln Ile Pro Glu Leu Asn Val Tyr Gln
          115          120          125
Cys Gly Thr Tyr Gln Met His Ser Leu Glu Glu Ala Gln Glu Ile Ala
          130          135          140
Arg His Ile Ile Glu Arg Asp Val Arg Val Asn Ser Asn Asp Glu Leu
145          150          155          160
Ala Leu Pro Lys Glu Lys Leu Glu Glu Leu His Ile
          165          170

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<210> 7615

<211> 524

<212> PRT

<213> *Enterobacter cloacae*

<400> 7615

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Gln Phe Phe Asp Arg Arg Glu Val Lys Leu Ile Pro Asp Val Ser Gln
1          5          10          15
Ala Leu Ala Trp Leu Glu Asn His Pro Gln Ala Leu Lys Gly Ile Gln
          20          25          30
Arg Gly Leu Glu Arg Glu Thr Leu Arg Val Asn Ala Asp Gly Ser Leu
          35          40          45
Ala Thr Thr Gly His Pro Lys Ala Leu Gly Ser Ala Leu Thr His Lys
          50          55          60
Trp Ile Thr Thr Asp Phe Ala Glu Ala Leu Leu Glu Phe Ile Thr Pro
65          70          75          80
Val Asp Gly Asp Ile Asp His Met Leu Thr Ile Met Arg Asp Val His
          85          90          95
Arg Phe Thr Ala Arg Asn Leu Gly Asp Glu Arg Met Trp Pro Leu Ser
          100          105          110
Met Pro Cys Tyr Ile Glu Gln Gly Gln Asp Ile Glu Leu Ala Gln Tyr
          115          120          125
Gly Thr Ser Asn Ile Gly Arg Leu Lys Thr Leu Tyr Arg Glu Gly Leu
          130          135          140
Lys Asn Arg Tyr Gly Ala Leu Met Gln Thr Ile Ser Gly Val His Tyr
145          150          155          160
Asn Phe Ser Leu Pro Met Ala Phe Trp Gln Ala Lys Cys Gly Glu Thr
          165          170          175
Asp Lys Glu Ala Ile Ser Ala Gly Tyr Phe Arg Leu Ile Arg Asn Tyr
          180          185          190
Tyr Arg Phe Gly Trp Val Ile Pro Tyr Leu Phe Gly Ala Ser Pro Ala
          195          200          205
Ile Cys Ser Ser Phe Leu Gln Gly Lys Pro Thr Thr Leu Pro Phe Glu
          210          215          220
Lys Thr Glu Cys Gly Met Tyr Tyr Leu Pro Tyr Ala Thr Ser Leu Arg

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225 230 235 240
 Leu Ser Asp Leu Gly Tyr Thr Asn Lys Ser Gln Ser Asn Leu Gly Ile
 245 250 255
 Thr Phe Asn Asp Leu His Glu Tyr Val Ala Gly Leu Lys Arg Ala Ile
 260 265 270
 Lys Thr Pro Ser Glu Glu Tyr Glu Lys Ile Gly Leu Glu Lys Asp Gly
 275 280 285
 Lys Arg Leu Gln Ile Asn Thr Asn Val Leu Gln Ile Glu Asn Glu Leu
 290 295 300
 Tyr Ala Pro Ile Arg Pro Lys Arg Val Thr Arg Ser Gly Glu Thr Pro
 305 310 315 320
 Ser Asp Ala Leu Gln Arg Gly Gly Ile Glu Tyr Ile Glu Val Arg Ser
 325 330 335
 Leu Asp Ile Asn Pro Phe Ser Pro Ile Gly Val Asp Glu Gln Gln Val
 340 345 350
 Arg Phe Leu Asp Leu Phe Met Val Trp Cys Val Leu Ala Asp Ala Pro
 355 360 365
 Glu Met Ser Ser Asp Glu Leu Leu Cys Thr Arg Ala Asn Trp Asn Arg
 370 375 380
 Val Ile Leu Glu Gly Arg Lys Pro Gly Leu Thr Leu Gly Ile Gly Cys
 385 390 395 400
 Glu Thr Ala Gln Phe Pro Leu Ser Lys Val Gly Lys Asp Leu Phe His
 405 410 415
 Asp Leu Lys Arg Val Ala Gln Thr Leu Asp Ser Val Tyr Gly Gly Glu
 420 425 430
 Ala Tyr Gln Lys Val Cys Asp Glu Leu Val Glu Ser Phe Asp Asn Pro
 435 440 445
 Glu Leu Thr Phe Ser Ala Arg Ile Leu Arg Ser Met Ile Glu Gln Gly
 450 455 460
 Ile Gly Gly Thr Gly Arg Ser Leu Ser Ala Glu Tyr Arg Glu Met Leu
 465 470 475 480
 Met Gln Glu Pro Leu Glu Ile Leu Ser Glu Ala Asp Phe Val Ala Glu
 485 490 495
 Arg Asp Ala Ser Val Val Arg Gln Lys Glu Val Glu Ala Ala Asp Thr
 500 505 510
 Glu Ser Phe Glu Ala Phe Leu Ala Lys Gln Ala
 515 520

<210> 7616

<211> 119

<212> PRT

<213> Enterobacter cloacae

<400> 7616

Pro Thr Glu Lys Arg Cys Gly Glu Thr Gly Leu Ile Val Pro Ala Cys
 1 5 10 15
 Phe Thr Leu Lys Pro Pro His Gln Glu Ala Ser Ala Met Ala Thr Pro
 20 25 30
 Arg Leu Thr Gln Lys Asp Met Thr Glu Ala Glu Gln Arg Glu Leu Lys
 35 40 45
 Thr Leu Leu Asp Arg Ala Arg Ile Ala His Gly Arg Thr Leu Thr Asn
 50 55 60
 Ala Glu Thr Asn Gln Val Lys Lys Glu Tyr Ile Asp Lys Leu Met Ala
 65 70 75 80
 Gln Arg Glu Ala Ala Lys Lys Ala Arg Lys Leu Lys Lys Glu Gln
 85 90 95
 Ala Tyr Lys Pro Asp Ala Glu Ala Thr Phe Ser Trp Ser Ala Asn Thr
 100 105 110
 Ser Thr Arg Gly Arg Arg
 115

<210> 7617

<211> 454

<212> PRT

<213> Enterobacter cloacae

<400> 7617

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His Glu Val Val Met Thr Ser Phe Val Val Ala Lys Phe Gly Gly Thr
1      5      10      15
Ser Val Ala Asp Tyr Asp Ala Met Asn Arg Ser Ala Asp Val Val Leu
20      25      30
Ala Asp Pro Asn Thr Arg Leu Val Val Leu Ser Ala Ser Ala Gly Val
35      40      45
Thr Asn Leu Leu Val Ser Leu Ser Glu Gly Leu Glu Ala Thr Glu Arg
50      55      60
Phe Val Lys Leu Asp Ala Leu Arg Lys Ile Gln Phe Asp Ile Leu Glu
65      70      75      80
Arg Leu Gln Asn Pro Asn Val Ile Arg Glu Glu Val Glu Arg Leu Leu
85      90      95
Glu Asn Ile Thr Thr Leu Ala Glu Ala Ala Ser Leu Ala Thr Ser Thr
100     105     110
Ala Leu Thr Asp Glu Leu Val Ser His Gly Glu Leu Met Ser Thr Leu
115     120     125
Leu Phe Val Glu Ile Met Arg Glu Arg Asn Ile Gln Ala Gln Trp Phe
130     135     140
Asp Val Arg Lys Val Met Arg Thr Ser Asp Arg Phe Gly Arg Ala Glu
145     150     155     160
Pro Asp Val Glu Val Leu Ala Glu Leu Thr Asn Gln Gln Leu Ala Pro
165     170     175
Arg Leu Asp Glu Gly Ile Val Ile Thr Gln Gly Phe Ile Gly Ser Glu
180     185     190
Ala Lys Gly Arg Thr Thr Thr Leu Gly Arg Gly Gly Ser Asp Tyr Thr
195     200     205
Ala Ala Leu Leu Gly Glu Ala Leu His Ala Thr Arg Val Asp Ile Trp
210     215     220
Thr Asp Val Pro Gly Ile Tyr Thr Thr Asp Pro Arg Val Val Ser Ala
225     230     235     240
Ala Lys Arg Ile Asp Val Ile Ala Phe Glu Ala Ala Glu Met Ala
245     250     255
Thr Phe Gly Ala Lys Val Leu His Pro Ala Thr Leu Leu Pro Ala Val
260     265     270
Arg Ser Asp Ile Pro Val Phe Val Gly Ser Ser Lys Asp Pro Lys Ala
275     280     285
Gly Gly Thr Leu Val Cys Lys Lys Thr Glu Asn Pro Pro Leu Phe Arg
290     295     300
Ala Leu Ala Leu Arg Arg Lys Gln Thr Leu Val Thr Leu His Ser His
305     310     315     320
Asn Met Leu His Ser Arg Gly Phe Leu Ala Glu Val Phe Gly Ile Leu
325     330     335
Ala Arg His Asn Ile Ser Val Asp Leu Ile Thr Thr Ser Glu Val Ser
340     345     350
Ile Ala Leu Thr Leu Asp Thr Thr Gly Ser Thr Ser Thr Gly Asp Thr
355     360     365
Leu Leu Thr Gln Ser Leu Leu Ile Glu Leu Ser Glu Leu Cys Arg Val
370     375     380
Glu Val Glu Glu Asp Leu Ala Leu Val Ala Ile Ile Gly Asn Lys Leu
385     390     395     400
Ser Arg Ala Cys Gly Val Gly Lys Glu Val Phe Gly Val Leu Asp Pro
405     410     415
Phe Asn Ile Arg Met Ile Cys Tyr Gly Ala Ser Ser Tyr Asn Leu Cys
420     425     430
Phe Leu Val Pro Ala Asp Gln Ala Glu Gln Val Val Gln Lys Leu His

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435
Gln Asn Leu Phe Glu
450

440

445

<210> 7618
<211> 340
<212> PRT
<213> Enterobacter cloacae

<400> 7618
Thr Ile Ser Ile Ser Arg Ala Gln Thr Arg Leu Phe Tyr Asn Lys Thr
1 5 10 15
Thr Arg Gln Tyr Cys Lys Glu Phe Thr Met Leu Ser Ala Ile Thr Arg
20 25 30
Leu Phe Pro Leu Trp Ala Leu Leu Leu Ser Val Leu Ala Tyr Tyr Thr
35 40 45
Pro Ala Thr Phe Thr Gly Ile Gly Pro Trp Val Thr Thr Leu Leu Met
50 55 60
Leu Ile Met Phe Gly Met Gly Val His Leu Lys Ile Asp Asp Phe Lys
65 70 75 80
Arg Val Leu Ser Arg Pro Ala Pro Val Ala Ala Gly Ile Phe Leu His
85 90 95
Tyr Leu Val Met Pro Leu Ala Ala Trp Leu Leu Ala Met Ala Phe Lys
100 105 110
Met Pro Pro Asp Leu Ser Ala Gly Met Val Leu Val Gly Ser Val Ala
115 120 125
Ser Gly Thr Ala Ser Asn Val Met Ile Tyr Leu Ala Lys Gly Asp Val
130 135 140
Ala Leu Ser Val Thr Ile Ser Ser Val Ser Thr Leu Val Gly Val Ile
145 150 155 160
Ala Thr Pro Leu Leu Thr Arg Leu Tyr Val Asp Ala His Ile Gln Val
165 170 175
Asp Val Met Gly Met Leu Leu Ser Ile Leu Gln Ile Val Val Ile Pro
180 185 190
Ile Ala Leu Gly Leu Val Ile His His Leu Phe Pro Arg Val Val Lys
195 200 205
Ala Val Glu Pro Tyr Leu Pro Ala Phe Ser Met Ile Cys Ile Leu Ala
210 215 220
Ile Ile Ser Ala Val Val Ala Gly Ser Ala Ser His Ile Ala Ser Val
225 230 235 240
Gly Phe Val Val Ile Val Ala Val Val Leu His Asn Thr Ile Gly Leu
245 250 255
Leu Gly Gly Tyr Trp Gly Gly Lys Leu Phe Gly Phe Asp Glu Ser Thr
260 265 270
Cys Arg Thr Leu Ala Ile Glu Val Gly Met Gln Asn Ser Gly Leu Ala
275 280 285
Ala Ala Leu Gly Lys Ile Tyr Phe Ser Pro Leu Ala Ala Leu Pro Gly
290 295 300
Ala Leu Phe Ser Val Trp His Asn Leu Ser Gly Ser Leu Leu Ala Gly
305 310 315 320
Tyr Trp Ser Gly Lys Pro Ile Asp Asp Gln Pro Lys Lys Asp Ala Val
325 330 335
Lys Gln Gly
340

<210> 7619
<211> 311
<212> PRT
<213> Enterobacter cloacae

<400> 7619

His Glu Thr Cys Ser Leu Ser Leu Leu Arg Ser Val Arg Lys Ala Val
 1 5 10 15
 Ala Lys Pro Pro Asn Lys Thr Lys Met Ile Ser Thr Ile Gln Lys Lys
 20 25 30
 Glu Phe Val Met Val Thr Thr Val Pro Ala Lys Arg Gly Arg Lys Pro
 35 40 45
 Ala Ala Thr Thr Ala Ala Gln Pro Gly Gly Gln Val Gln Ser Leu Thr
 50 55 60
 Arg Gly Leu Lys Leu Leu Glu Trp Ile Ala Glu Ser His Gly Ser Val
 65 70 75 80
 Ala Leu Thr Glu Leu Ala Gln Gln Ala Gly Leu Pro Asn Ser Thr Thr
 85 90 95
 His Arg Leu Leu Thr Thr Met Gln Gln Leu Gly Phe Val Arg Gln Val
 100 105 110
 Gly Glu Leu Gly His Trp Ala Val Gly Ala His Ala Phe Ile Val Gly
 115 120 125
 Ser Ser Phe Leu Gln Ser Arg Asn Leu Leu Ala Ile Val His Pro Ile
 130 135 140
 Leu Arg Lys Leu Met Glu Ser Gly Glu Thr Val Asn Leu Ala Val
 145 150 155 160
 Leu Asp Gln Ser Asp His Gln Ala Ile Ile Asp Gln Val Gln Cys
 165 170 175
 Thr Gln Leu Met Arg Met Ser Ala Pro Ile Gly Gly Lys Leu Pro Met
 180 185 190
 His Ala Ser Gly Ala Gly Lys Ala Phe Leu Ser Gln Leu Ser Glu Glu
 195 200 205
 Gln Val Thr Gly Leu Leu His Arg Lys Gly Leu His Ala Tyr Thr His
 210 215 220
 Ala Thr Leu Val Ser Pro Val His Leu Lys Glu Asp Leu Ala Leu Thr
 225 230 235 240
 Arg Lys Arg Gly Tyr Ser Phe Asp Asp Glu Glu His Ala Leu Gly Leu
 245 250 255
 Arg Cys Leu Ala Ser Cys Ile Phe Asp Glu His Arg Glu Pro Phe Ala
 260 265 270
 Ala Ile Ser Ile Ser Gly Pro Ile Ser Arg Met Thr Asp Asp Arg Val
 275 280 285
 Thr Glu Leu Gly Ala Met Val Ile Lys Ala Ala Lys Glu Val Thr Leu
 290 295 300
 Ala Tyr Gly Gly Ile Arg
 305 310

<210> 7620

<211> 106

<212> PRT

<213> Enterobacter cloacae

<400> 7620

Ile Thr Gly Ser Asn Met Lys Glu Ile Val Gln Thr Glu Ser Phe Arg
 1 5 10 15
 Arg Trp Glu Gln Asn Leu Lys Asp Arg Arg Ala Lys Thr Ile Ile Ala
 20 25 30
 Ser Arg Leu Phe Arg Leu Ala Asn Gly Leu Ala Gly Asp Ile Arg Pro
 35 40 45
 Val Gly Glu Gly Ile Ser Glu Leu Arg Ile His Phe Gly Pro Gly Tyr
 50 55 60
 Arg Val Tyr Phe Lys Asp Gln Gly Asn Cys Ile Ile Val Leu Leu Cys
 65 70 75 80
 Gly Gly Asp Lys Ser Ser Gln Ala Arg Asp Ile Leu Met Ala Lys Met
 85 90 95
 Leu Ser Asn Val Ser Gln Trp Gln Glu
 100 105

<210> 7621
 <211> 98
 <212> PRT
 <213> Enterobacter cloacae

<400> 7621

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Met Ser Met His Lys Leu Thr Pro Tyr Asp Pro Ala Asn Ala Leu Val
1      5      10      15
Asp Asp Glu Glu Ile Ala Val Phe Met Ala Asp Ala Leu Glu Thr Gly
      20      25      30
Asp Ser Ala Tyr Ile Ala Lys Ala Leu Gly Val Ile Ala Arg Ala Lys
      35      40      45
Gly Met Ser Thr Ile Ser Gln Gln Thr Gly Leu Ser Arg Glu Gln Leu
      50      55      60
Tyr Arg Ser Phe Ser Asp Lys Gly Asn Pro Thr Leu Lys Thr Thr Leu
      65      70      75      80
Ala Val Met Lys Ala Leu Gly Leu Gly Leu Thr Ile Lys Pro Ser Gly
      85      90      95
Asp

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<210> 7622
 <211> 314
 <212> PRT
 <213> Enterobacter cloacae

<400> 7622

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Gly Phe Lys Val Met Pro Ile Arg Val Gln Asp Glu Leu Pro Ala Val
1      5      10      15
Asn Phe Leu Arg Glu Glu Asn Val Phe Val Met Thr Thr Ser Arg Ala
      20      25      30
Ser Gly Gln Glu Ile Arg Pro Leu Lys Val Leu Ile Leu Asn Leu Met
      35      40      45
Pro Lys Lys Ile Glu Thr Glu Asn Gln Phe Leu Arg Leu Leu Ser Asn
      50      55      60
Ser Pro Leu Gln Val Asp Ile Gln Leu Leu Arg Ile Asp Ala Arg Glu
      65      70      75      80
Ser Arg Asn Thr Pro Ala Glu His Leu Asn Asn Phe Tyr Cys Asn Phe
      85      90      95
Glu Asp Ile Arg Asp Glu Asn Phe Asp Gly Leu Ile Val Thr Gly Ala
      100     105     110
Pro Leu Gly Leu Val Glu Phe Asn Asp Val Ala Tyr Trp Pro Gln Ile
      115     120     125
Arg Gln Val Leu Glu Trp Ala Lys Asp His Val Thr Ser Thr Leu Phe
      130     135     140
Val Cys Trp Ala Val Gln Ala Ala Leu Asn Ile Leu Tyr Gly Ile Pro
      145     150     155     160
Lys Gln Thr Arg Ser Asp Lys Leu Ser Gly Val Tyr Glu His His Ile
      165     170     175
Leu His Pro His Ala Leu Leu Thr Arg Gly Phe Asp Asp Thr Phe Leu
      180     185     190
Ala Pro His Ser Arg Tyr Ala Asp Phe Pro Ala Gln Leu Ile Arg Asp
      195     200     205
Tyr Thr Asp Leu Glu Ile Leu Ala Glu Thr Glu Asp Gly Asp Ala Tyr
      210     215     220
Leu Phe Ala Ser Lys Asp Lys Arg Ile Ala Phe Val Thr Gly His Pro
      225     230     235     240
Glu Tyr Asp Pro His Thr Leu Ala Ala Glu Tyr Phe Arg Asp Val Glu
      245     250     255
Ala Gly Leu Asn Pro Asp Val Pro Tyr Asn Tyr Phe Pro Lys Asn Asp

```


260	265	270
Pro Gln Asn Thr	Pro Arg Ala Thr Trp Arg Ser His Gly Asn Leu Leu	
275	280	285
Phe Thr Asn Trp Leu Asn Tyr Tyr Val Tyr Gln Ile Thr Pro Tyr Asp		
290	295	300
Leu Arg His Met Asn Pro Thr Leu Glu		
305	310	

<210> 7623

<211> 455

<212> PRT

<213> Enterobacter cloacae

<400> 7623

Pro Cys Arg Ala Thr Ala Ser Trp Arg Asn Ser Pro His Asn Asn Met	
1 5 10 15	
Glu His Leu His Met Lys Thr Arg Thr Gln Gln Ile Glu Glu Leu Gln	
20 25 30	
Lys Glu Trp Thr Gln Pro Arg Trp Glu Gly Ile Arg Arg Pro Tyr Ser	
35 40 45	
Ala Glu Glu Val Val Lys Leu Arg Gly Ser Val Asn Pro Glu Cys Thr	
50 55 60	
Leu Ala Gln Asn Gly Ala Ala Lys Met Trp Asp Leu Leu His Gly Gly	
65 70 75 80	
Ala Lys Lys Gly Tyr Ile Asn Ser Leu Gly Ala Leu Thr Gly Gly Gln	
85 90 95	
Ala Leu Gln Gln Ala Lys Ala Gly Ile Glu Ala Ile Tyr Leu Ser Gly	
100 105 110	
Trp Gln Val Ala Ala Asp Ala Asn Leu Ala Ser Ser Met Tyr Pro Asp	
115 120 125	
Gln Ser Leu Tyr Pro Ala Asn Ser Val Pro Ser Val Val Asp Arg Ile	
130 135 140	
Asn Asn Thr Phe Arg Arg Ala Asp Gln Ile Gln Trp Ala Ala Gly Ile	
145 150 155 160	
Glu Pro His Asp Pro Arg Phe Ile Asp Tyr Phe Leu Pro Ile Val Ala	
165 170 175	
Asp Ala Glu Ala Gly Phe Gly Gly Val Leu Asn Ala Phe Glu Leu Met	
180 185 190	
Lys Ser Met Ile Glu Ala Gly Ala Ala Val His Phe Glu Asp Gln	
195 200 205	
Leu Ala Ser Val Lys Lys Cys Gly His Met Gly Gly Lys Val Leu Val	
210 215 220	
Pro Thr Gln Glu Ala Ile Gln Lys Leu Val Ala Ala Arg Leu Ala Ala	
225 230 235 240	
Asp Val Leu Gly Val Pro Thr Leu Val Ile Ala Arg Thr Asp Ala Asp	
245 250 255	
Ala Ala Asp Leu Ile Thr Ser Asp Cys Asp Pro Tyr Asp Ser Glu Phe	
260 265 270	
Ile Thr Gly Glu Arg Thr Ser Glu Gly Phe Tyr Arg Thr His Ala Gly	
275 280 285	
Ile Glu Gln Ala Ile Ser Arg Gly Leu Ala Tyr Ala Pro Tyr Ala Asp	
290 295 300	
Leu Val Trp Cys Glu Thr Ser Thr Pro Asp Leu Ala Leu Ala Lys Arg	
305 310 315 320	
Phe Ala Asp Ala Ile His Ala Lys Tyr Pro Gly Lys Leu Leu Ala Tyr	
325 330 335	
Asn Cys Ser Pro Ser Phe Asn Trp Gln Lys Asn Leu Asp Asp Thr Thr	
340 345 350	
Ile Ala Ser Phe Gln Gln Gln Leu Ser Asp Met Gly Tyr Lys Tyr Gln	
355 360 365	
Phe Ile Thr Leu Ala Gly Ile His Ser Met Trp Phe Asn Met Phe Asp	

```

      370                      375                      380
Leu Ala His Ala Tyr Ala Gln Gly Glu Gly Met Lys His Tyr Val Glu
385                      390                      395                      400
Lys Val Gln Gln Pro Glu Phe Ala Ala Gly Lys Glu Gly Tyr Thr Phe
      405                      410                      415
Val Ser His Gln Gln Glu Val Gly Thr Gly Tyr Phe Asp Asn Val Thr
      420                      425                      430
Thr Ile Ile Gln Gly Gly Ala Ser Ser Val Thr Ala Leu Thr Gly Ser
      435                      440                      445
Thr Glu Glu Ala Gln Phe
      450                      455

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<210> 7624

<211> 601

<212> PRT

<213> Enterobacter cloacae

<400> 7624

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Ser Phe Pro Pro Leu Pro Pro Arg Gly Glu Gly Trp Gly Glu Gly Glu
1                      5                      10                      15
Tyr Met Ser Arg Gly Leu Glu Leu Leu Ile Ala Gln Thr Ile Leu Gln
      20                      25                      30
Gly Phe Asp Ala Gln Tyr Gly Arg Phe Leu Glu Val Thr Ser Gly Ala
      35                      40                      45
Gln Gln Arg Phe Glu His Ala Asp Trp His Ala Val Gln Gln Ala Met
      50                      55                      60
Lys Gln Arg Ile His Leu Tyr Asp His His Val Gly Leu Val Val Glu
65                      70                      75                      80
Gln Leu Arg Cys Ile Thr Asp Gly Lys Ser Pro Asp Ala Asp Phe Leu
      85                      90                      95
Leu Arg Val Lys Glu His Tyr Thr His Leu Leu Pro Asp Tyr Pro Arg
      100                      105                      110
Phe Glu Ile Ala Glu Ser Phe Phe Asn Ser Val Tyr Cys Arg Leu Phe
      115                      120                      125
Asp His Arg Ser Leu Ser Pro Glu Arg Leu Phe Ile Phe Ser Ser Gln
130                      135                      140
Pro Glu Arg Arg Phe Arg Thr Ile Pro Arg Pro Leu Ala Lys Asp Phe
145                      150                      155                      160
Phe Pro Asp Arg Gly Trp Glu Lys Leu Leu His Arg Val Leu Thr Asp
      165                      170                      175
Leu Pro Leu Arg Leu Pro Trp Glu Asn Lys Pro Arg Asp Ile Gly Tyr
      180                      185                      190
Ile His Ala Tyr Leu Ser Glu Thr Phe Gly Glu Glu Val Leu Ser Arg
195                      200                      205
Ser His Leu Gln Val Ala Asn Glu Leu Phe Tyr Arg Asn Lys Ala Ala
210                      215                      220
Trp Leu Val Gly Lys Leu Val Thr Pro Thr Ala Ile Val Pro Phe Leu
225                      230                      235                      240
Leu Pro Ile His Arg Thr Asp Asp Gly Glu Leu Phe Val Asp Thr Cys
      245                      250                      255
Leu Thr Thr Ser Ala Glu Ala Ser Ile Val Phe Gly Phe Ala Arg Ser
      260                      265                      270
Tyr Phe Met Val Tyr Ala Pro Leu Pro Ala Ala Leu Val Glu Trp Leu
275                      280                      285
Arg Glu Ile Leu Pro Gly Lys Thr Thr Ala Glu Leu Tyr Met Ala Ile
290                      295                      300
Gly Cys Gln Lys His Ala Lys Thr Glu Ser Tyr Arg Glu Tyr Leu Arg
305                      310                      315                      320
Tyr Val Thr Thr Ala Asp Glu Gln Phe Ile Glu Ala Pro Gly Ile Arg
      325                      330                      335
Gly Met Val Met Leu Val Phe Thr Leu Pro Gly Phe Asp Arg Val Phe

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<210> 7625
<211> 1234
<212> PRT
<213> Enterobacter cloacae
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Ala 1	Leu	Ser	Gly	Ala 5	Ser	Val	Ser	Ser	Lys 10	Val	Glu	Gln	Leu	Arg 15	Ala
Gln	Leu	Asn 20	Glu	Arg	Ile	Leu	Val	Leu 25	Asp	Gly	Gly	Met 30	Gly	Thr	Met
Ile	Gln	Gly 35	Tyr	Arg	Leu	Cys	Glu 40	Asp	Asp	Phe	Arg	Gly 45	Glu	Arg	Phe
Ala	Asp 50	Trp	Pro	Cys	Asp	Leu 55	Lys	Gly	Asn	Asn	Asp 60	Leu	Leu	Val	Leu
Ser 65	Lys	Pro	Ser	Val 70	Ile	Arg	Asp	Ile	His	Asn 75	Ala	Tyr	Phe	Glu	Ala 80
Gly	Ala	Asp	Ile	Val 85	Glu	Thr	Asn	Thr	Phe 90	Asn	Ser	Thr	Thr	Ile 95	Ala
Met	Ala	Asp	Tyr 100	Gln	Met	Glu	Ser	Leu 105	Ser	Ala	Glu	Ile	Asn 110	Phe	Glu
Ala	Ala	Lys 115	Leu	Ala	Arg	Ala	Cys 120	Ala	Asp	Glu	Trp	Thr 125	Ala	Arg	Thr
Pro	Asp 130	Lys	Pro	Arg	Tyr	Val 135	Ala	Gly	Val	Leu	Gly 140	Pro	Thr	Asn	Arg
Thr 145	Ala	Ser	Ile	Ser	Pro 150	Asp	Val	Asn	Asp	Pro 155	Ala	Phe	Arg	Asn	Ile 160
Thr	Phe	Asp	Gln	Leu	Val	Ala	Ala	Tyr	Arg	Glu	Ser	Thr	Lys	Ala	Leu

Val	Glu	Gly	Gly	Ser	Asp	Leu	Ile	Leu	Ile	Glu	Thr	Val	Phe	Asp	Thr
			180						185				190		
Leu	Asn	Ala	Lys	Ala	Ala	Ile	Tyr	Ala	Val	Lys	Glu	Glu	Phe	Glu	Ser
		195					200					205			
Leu	Gly	Val	Asp	Leu	Pro	Ile	Met	Ile	Ser	Gly	Thr	Ile	Thr	Asp	Ala
	210					215					220				
Ser	Gly	Arg	Thr	Leu	Ser	Gly	Gln	Thr	Thr	Glu	Ala	Phe	Tyr	Asn	Ser
225					230					235					240
Leu	Arg	His	Ala	Glu	Ala	Leu	Ser	Phe	Gly	Leu	Asn	Cys	Ala	Leu	Gly
				245					250					255	
Pro	Asp	Glu	Leu	Arg	Gln	Tyr	Val	Gln	Glu	Leu	Ser	Arg	Ile	Ala	Glu
			260					265					270		
Cys	Tyr	Val	Thr	Ala	His	Pro	Asn	Ala	Gly	Leu	Pro	Asn	Ala	Phe	Gly
		275					280					285			
Glu	Tyr	Asp	Leu	Asp	Ala	Asp	Thr	Met	Ala	Ala	Gln	Ile	Arg	Glu	Trp
	290					295					300				
Ala	Glu	Ser	Gly	Phe	Leu	Asn	Ile	Val	Gly	Gly	Cys	Cys	Gly	Thr	Thr
305					310					315					320
Pro	Glu	His	Ile	Ala	Ala	Met	Ser	Asn	Ala	Val	Ala	Gly	Leu	Pro	Pro
				325					330					335	
Arg	Lys	Leu	Pro	Glu	Leu	Pro	Val	Ala	Cys	Arg	Leu	Ser	Gly	Leu	Glu
			340					345					350		
Pro	Leu	Thr	Ile	Gly	Asp	Asp	Ser	Leu	Phe	Val	Asn	Val	Gly	Glu	Arg
		355				360					365				
Thr	Asn	Val	Thr	Gly	Ser	Ala	Lys	Phe	Lys	Arg	Leu	Ile	Lys	Glu	Glu
	370					375					380				
Lys	Tyr	Ser	Glu	Ala	Leu	Asp	Val	Ala	Arg	Gln	Gln	Val	Glu	Ser	Gly
385					390					395					400
Ala	Gln	Ile	Ile	Asp	Ile	Asn	Met	Asp	Glu	Gly	Met	Leu	Asp	Ala	Glu
				405					410					415	
Ala	Ala	Met	Val	Arg	Phe	Leu	Asn	Leu	Ile	Ala	Gly	Glu	Pro	Asp	Ile
			420					425					430		
Ala	Arg	Val	Pro	Ile	Met	Ile	Asp	Ser	Ser	Lys	Trp	Asp	Val	Ile	Glu
		435					440					445			
Lys	Gly	Leu	Lys	Cys	Ile	Gln	Gly	Lys	Gly	Ile	Val	Asn	Ser	Ile	Ser
	450					455					460				
Met	Lys	Glu	Gly	Val	Asp	Thr	Phe	Ile	His	His	Ala	Lys	Leu	Val	Arg
465					470					475					480
Arg	Tyr	Gly	Ala	Ala	Val	Val	Val	Met	Ala	Phe	Asp	Glu	Val	Gly	Gln
				485					490					495	
Ala	Asp	Thr	Arg	Glu	Arg	Lys	Ile	Glu	Ile	Cys	Arg	Arg	Ala	Tyr	Lys
			500					505					510		
Ile	Leu	Thr	Glu	Glu	Val	Gly	Phe	Pro	Pro	Glu	Asp	Ile	Ile	Phe	Asp
		515													

Gln Ala Glu Trp Arg Ser Trp Asp Val Asn Lys Arg Leu Glu Tyr Ser
 660 665 670
 Leu Val Lys Gly Ile Thr Glu Phe Ile Glu Gln Asp Thr Glu Glu Ala
 675 680 685
 Arg Gln Gln Ala Ala Arg Pro Ile Glu Val Ile Glu Gly Pro Leu Met
 690 695 700
 Asp Gly Met Asn Val Val Gly Asp Leu Phe Gly Glu Gly Lys Met Phe
 705 710 715 720
 Leu Pro Gln Val Val Lys Ser Ala Arg Val Met Lys Gln Ala Val Ala
 725 730 735
 Tyr Leu Glu Pro Phe Ile Glu Ala Ser Lys Glu Lys Gly Ser Ser Asn
 740 745 750
 Gly Lys Met Val Ile Ala Thr Val Lys Gly Asp Val His Asp Ile Gly
 755 760 765
 Lys Asn Ile Val Gly Val Val Leu Gln Cys Asn Asn Tyr Glu Ile Ile
 770 775 780
 Asp Leu Gly Val Met Val Pro Ala Asp Lys Ile Leu Arg Thr Ala Arg
 785 790 795 800
 Glu Val Asn Ala Asp Leu Ile Gly Leu Ser Gly Leu Ile Thr Pro Ser
 805 810 815
 Leu Asp Glu Met Val Asn Val Ala Lys Glu Met Glu Arg Gln Gly Phe
 820 825 830
 Thr Ile Pro Leu Leu Ile Gly Gly Ala Thr Thr Ser Lys Ala His Thr
 835 840 845
 Ala Val Lys Ile Glu Gln Asn Tyr Ser Gly Pro Thr Val Tyr Val Gln
 850 855 860
 Asn Ala Ser Arg Thr Val Gly Val Val Ser Ala Leu Leu Ser Asp Thr
 865 870 875 880
 Gln Arg Asp Asp Phe Val Ala Arg Thr Arg Lys Glu Tyr Glu Thr Val
 885 890 895
 Arg Ile Gln His Gly Arg Lys Lys Pro Arg Thr Pro Pro Val Ser Leu
 900 905 910
 Gln Ala Ala Arg Glu Asn Asp Leu Ala Phe Asp Trp Ser Ser Tyr Thr
 915 920 925
 Pro Pro Val Ala His Arg Leu Gly Val Gln Asp Val Thr Ala Ser Ile
 930 935 940
 Glu Thr Leu Arg Asn Tyr Ile Asp Trp Thr Pro Phe Phe Met Thr Trp
 945 950 955 960
 Ser Leu Ala Gly Lys Tyr Pro Arg Ile Leu Glu Asp Glu Val Val Gly
 965 970 975
 Glu Glu Ala Lys Arg Leu Phe Lys Asp Ala Asn Asp Met Leu Asp Arg
 980 985 990
 Leu Ser Ala Glu Lys Ala Leu Asn Pro Arg Gly Val Val Gly Leu Phe
 995 1000 1005
 Pro Ala Asn Arg Val Gly Asp Asp Val Glu Ile Tyr Arg Asp Glu Thr
 1010 1015 1020
 Arg Thr His Val Leu Ala Val Ser His His Leu Arg Gln Gln Thr Glu
 1025 1030 1035 1040
 Lys Val Gly Phe Ala Asn Tyr Cys Leu Ala Asp Phe Val Ala Pro Lys
 1045 1050 1055
 Leu Ser Gly Lys Ala Asp Tyr Ile Gly Ala Phe Ala Val Thr Gly Gly
 1060 1065 1070
 Leu Glu Glu Asp Ala Leu Ala Asp Ala Tyr Asp Ala Gln His Asp Asp
 1075 1080 1085
 Tyr Asn Lys Ile Met Val Lys Ala Ile Ala Asp Arg Leu Ala Glu Ala
 1090 1095 1100
 Phe Ala Glu Tyr Leu His Glu Arg Val Arg Lys Val His Trp Gly Tyr
 1105 1110 1115 1120
 Ala Ala Asn Glu Asn Leu Ser Asn Glu Glu Leu Ile Arg Glu Asn Tyr
 1125 1130 1135
 Gln Gly Ile Arg Pro Ala Pro Gly Tyr Pro Ala Cys Pro Glu His Thr

1140 1145 1150
 Glu Lys Gly Thr Ile Trp Lys Leu Leu Asp Val Glu Ala His Thr Gly
 1155 1160 1165
 Met Lys Leu Thr Glu Ser Phe Ala Met Trp Pro Gly Ala Ser Val Ser
 1170 1175 1180
 Gly Trp Tyr Phe Ser His Pro Asp Ser Lys Tyr Phe Ala Val Ala Gln
 1185 1190 1195 1200
 Leu Gln Arg Asp Gln Ile Glu Asp Tyr Ala Leu Arg Lys Gly Met Ser
 1205 1210 1215
 Val Ser Glu Val Glu Arg Trp Leu Ala Pro Asn Leu Gly Tyr Asp Ala
 1220 1225 1230
 Asp

<210> 7626
 <211> 318
 <212> PRT
 <213> Enterobacter cloacae

<400> 7626
 Lys Thr Arg Leu Ser Asn Arg Arg Leu Ile Phe Phe Ser Ser Pro Asn
 1 5 10 15
 Leu Arg Tyr Ile Ser Pro Phe Thr Gly Glu Thr Met Leu Pro Thr Gln
 20 25 30
 Ser Thr Arg Leu Asn Lys Tyr Ile Ser Glu Ser Gly Ile Cys Ser Arg
 35 40 45
 Arg Glu Ala Asp Arg Tyr Ile Glu Gln Gly Asn Val Phe Leu Asn Gly
 50 55 60
 Lys Arg Ala Thr Ile Gly Asp Gln Val Val Pro Gly Asp Val Val Lys
 65 70 75 80
 Val Asn Gly Gln Val Ile Glu Pro Arg Asp Ala Glu Asp Leu Val Phe
 85 90 95
 Ile Ala Leu Asn Lys Pro Val Gly Ile Val Ser Thr Thr Glu Asp Gly
 100 105 110
 Glu Arg Asp Asn Ile Val Asp Phe Val Asn His Ser Ser Arg Ile Phe
 115 120 125
 Pro Ile Gly Arg Leu Asp Lys Asp Ser Gln Gly Leu Ile Phe Leu Thr
 130 135 140
 Asn His Gly Asp Leu Val Asn Lys Ile Leu Arg Ala Gly Asn Asp His
 145 150 155 160
 Glu Lys Glu Tyr Ile Val Thr Val Asn Lys Pro Val Thr Asp Glu Phe
 165 170 175
 Ile Arg Gly Met Gly Ala Gly Val Pro Ile Leu Gly Thr Val Thr Lys
 180 185 190
 Lys Cys Lys Val Arg Lys Glu Ala Pro Phe Ala Phe Arg Ile Thr Leu
 195 200 205
 Val Gln Gly Leu Asn Arg Gln Ile Arg Arg Met Cys Glu Tyr Phe Gly
 210 215 220
 Tyr Glu Val Thr Lys Leu Glu Arg Thr Arg Ile Met Asn Val Ser Leu
 225 230 235 240
 Ser Gly Ile Pro Leu Gly Glu Trp Arg Asp Leu Thr Asp Asp Glu Leu
 245 250 255
 Ile Glu Leu Phe Lys Leu Ile Glu Asn Ser Ser Ser Glu Ala Lys Pro
 260 265 270
 Lys Ala Lys Ala Lys Pro Lys Thr Gln Thr Ile Lys Arg Pro Val Val
 275 280 285
 Lys Ala Pro Gln Ala Glu Glu Lys Gly Arg Gly Lys Pro Gly Asn Gly
 290 295 300
 Lys Arg Phe Thr Gln Pro Gly Arg Lys Lys Lys Gly Arg
 305 310 315

<210> 7627
 <211> 75
 <212> PRT
 <213> Enterobacter cloacae

<400> 7627
 Lys Ser Ile Thr Pro Ile Cys Tyr Pro Thr Thr Arg Ala Ser Arg Leu
 1 5 10 15
 Arg Arg Ala Phe Ser Thr Pro Ser Ile Ala Gly Tyr Leu Thr Thr Ala
 20 25 30
 His Tyr Leu Ser Gly Tyr Leu Ser Ser Ala Pro Ser Arg Ser Ala
 35 40 45
 Ala Ser Val Pro Phe Arg Val Arg Trp Arg Lys Ile Ser Phe Pro Ile
 50 55 60
 Ala Ala Gly Lys Ser Ser Cys Thr Val Ser
 65 70 75

<210> 7628
 <211> 543
 <212> PRT
 <213> Enterobacter cloacae

<400> 7628
 Phe Gly Ser Leu Met Arg Ser Arg Thr Met Thr Gln Gln Ala Thr Thr
 1 5 10 15
 Val Asp Glu Leu Thr Phe Thr Gln Pro Asn Gly Glu Gln Glu Gln Gln
 20 25 30
 Val Leu Thr Ala Glu Ala Val Glu Phe Leu Thr Glu Leu Val Thr Arg
 35 40 45
 Phe Thr Pro Gln Arg Asn Lys Leu Leu Ala Ala Arg Ile His Gln Gln
 50 55 60
 Gln Gly Ile Asp Asn Gly Lys Leu Pro Gly Phe Ile Ser Glu Thr Ala
 65 70 75 80
 Ser Ile Arg His Gly Asp Trp Lys Ile Arg Gly Ile Pro Glu Asp Leu
 85 90 95
 Gln Asp Arg Arg Val Glu Ile Thr Gly Pro Val Glu Arg Lys Met Val
 100 105 110
 Ile Asn Ala Met Asn Ala Asn Val Lys Val Phe Met Ala Asp Phe Glu
 115 120 125
 Asp Ser Leu Ala Pro Asp Trp Gln Lys Val Ile Asp Gly Gln Ile Asn
 130 135 140
 Leu Arg Asp Ala Val Asn Gly Thr Ile Ser Tyr Thr Asn Glu Ala Gly
 145 150 155 160
 Lys Ile Tyr Gln Leu Lys Pro Asn Pro Ala Val Leu Ile Cys Arg Val
 165 170 175
 Arg Gly Leu His Leu Pro Glu Lys His Val Thr Trp Arg Gly Glu Ala
 180 185 190
 Ile Pro Gly Ser Leu Phe Asp Phe Ala Leu Tyr Phe Phe His Asn His
 195 200 205
 Lys Asn Leu Leu Ala Lys Gly Ser Gly Pro Tyr Phe Tyr Leu Pro Lys
 210 215 220
 Thr Gln Ser Trp Gln Glu Ala Ala Trp Trp Ser Glu Val Phe Ser Tyr
 225 230 235 240
 Ala Glu Asp Arg Phe Ser Leu Pro Arg Gly Thr Ile Lys Ala Thr Leu
 245 250 255
 Leu Ile Glu Thr Leu Pro Ala Val Phe Gln Met His Glu Ile Leu His
 260 265 270
 Ala Leu Arg Asp His Ile Val Gly Leu Asn Cys Gly Arg Trp Asp Tyr
 275 280 285
 Ile Phe Ser Tyr Ile Lys Thr Leu Lys Asn His Ala Asp Arg Val Leu
 290 295 300

Pro Asp Arg Gln Val Val Thr Met Asp Lys Pro Phe Leu Ser Ala Tyr
 305 310 315 320
 Ser Arg Leu Leu Ile Lys Thr Cys His Lys Arg Gly Ala Phe Ala Met
 325 330 335
 Gly Gly Met Ala Ala Phe Ile Pro Ser Lys Asp Ala Glu Arg Asn Asn
 340 345 350
 His Val Leu Asn Lys Val Lys Ala Asp Lys Glu Leu Glu Ala Arg Asn
 355 360 365
 Gly His Asp Gly Thr Trp Ile Ala His Pro Gly Leu Ala Asp Thr Ala
 370 375 380
 Met Glu Val Phe Asn Arg Val Leu Gly Asp Asn Lys Asn Gln Leu Phe
 385 390 395 400
 Val Thr Arg Glu Asp Asp Ala Pro Ile Ala Glu Glu Gln Leu Leu Ala
 405 410 415
 Pro Cys Ala Gly Glu Arg Thr Glu Glu Gly Met Arg Ala Asn Ile Arg
 420 425 430
 Val Ala Val Gln Tyr Ile Glu Ala Trp Ile Ser Gly Asn Gly Cys Val
 435 440 445
 Pro Ile Tyr Gly Leu Met Glu Asp Ala Ala Thr Ala Glu Ile Ser Arg
 450 455 460
 Thr Ser Ile Trp Gln Trp Ile His His Gln Lys Thr Leu Ser Asn Gly
 465 470 475 480
 Lys Pro Val Thr Lys Ala Leu Phe Arg Gln Met Leu Ala Glu Glu Met
 485 490 495
 Arg Val Ile Gln Asp Glu Leu Gly Glu His Arg Phe Ser Ser Gly Arg
 500 505 510
 Phe Asp Asp Ala Ala Arg Leu Met Glu Gln Ile Thr Thr Ser Asp Asp
 515 520 525
 Leu Ile Asp Phe Leu Thr Leu Pro Gly Tyr Arg Phe Leu Ala
 530 535 540

<210> 7629

<211> 549

<212> PRT

<213> Enterobacter cloacae

<400> 7629

Gly Gly Met Pro Thr Val Leu Thr Leu Leu His Leu Leu Ser Ala Val
 1 5 10 15
 Ala Leu Leu Val Trp Gly Thr His Ile Val Arg Thr Gly Val Met Arg
 20 25 30
 Val Phe Gly Ala Arg Leu Arg Thr Val Leu Ser Gly Ser Val Glu Lys
 35 40 45
 Lys Pro Leu Ala Phe Cys Ala Gly Ile Gly Val Thr Ala Leu Val Gln
 50 55 60
 Ser Ser Asn Ala Thr Thr Met Leu Val Thr Ser Phe Val Ala Gln Asp
 65 70 75 80
 Leu Val Ala Leu Ala Pro Ala Leu Val Ile Val Leu Gly Ala Asp Val
 85 90 95
 Gly Thr Ala Leu Met Ala Arg Ile Leu Thr Phe Asp Leu Ser Trp Leu
 100 105 110
 Ser Pro Leu Leu Ile Phe Ile Gly Val Ile Phe Phe Leu Gly Arg Lys
 115 120 125
 Gln Ser Arg Ala Gly Gln Leu Gly Arg Val Gly Ile Gly Leu Gly Leu
 130 135 140
 Ile Leu Leu Ala Leu Glu Leu Ile Val Gln Ala Val Thr Pro Ile Thr
 145 150 155 160
 Gln Ala Asn Gly Val Gln Val Ile Phe Ala Ser Leu Thr Gly Asp Ile
 165 170 175
 Met Leu Asp Ala Leu Ile Gly Ala Val Phe Ala Ile Val Ser Tyr Ser
 180 185 190

Ser Leu Ala Ala Val Leu Leu Thr Ala Thr Leu Thr Ala Ala Gly Val
 195 200 205
 Ile Ser Phe Pro Val Ala Leu Cys Leu Val Ile Gly Ala Asn Leu Gly
 210 215 220
 Ser Gly Leu Leu Ala Met Leu Asn Asn Ser Ala Ala Asn Ala Ala Ala
 225 230 235 240
 Arg Arg Val Ala Leu Gly Ser Leu Leu Phe Lys Leu Val Gly Ser Leu
 245 250 255
 Ile Ile Leu Pro Phe Val His Pro Leu Ala Asn Leu Met Asp Asn Leu
 260 265 270
 Ser Leu Pro Lys Ala Glu Leu Val Ile Tyr Phe His Val Phe Tyr Asn
 275 280 285
 Leu Val Arg Cys Leu Ala Met Val Pro Phe Ala Ala Pro Met Ala Arg
 290 295 300
 Phe Cys Glu Arg Leu Ile Arg Asp Glu Pro Glu Leu Asp Ala Arg Leu
 305 310 315 320
 Lys Pro Lys His Leu Asp Thr Ser Val Leu Asp Thr Pro Ala Leu Ala
 325 330 335
 Ile Ala Asn Ala Ala Arg Glu Thr Leu Arg Met Gly Asp Ala Met Glu
 340 345 350
 Thr Met Leu Glu Gly Leu Gln Lys Val Met His Gly Glu Pro Arg Glu
 355 360 365
 Glu Lys Glu Leu Arg Arg Leu Ala Asp Asp Ile Asn Val Leu Tyr Thr
 370 375 380
 Ala Ile Lys Leu Tyr Leu Ala Arg Ile Pro Gln Asp Glu Leu Ala Glu
 385 390 395 400
 Glu Glu Ser Arg Arg Trp Ala Glu Ile Ile Glu Met Ser Leu Asn Leu
 405 410 415
 Glu Gln Ala Ser Asp Ile Val Glu Arg Met Gly Ser Glu Ile Ala Asp
 420 425 430
 Lys Ser Leu Ala Ala Arg Arg Ala Phe Ser Val Glu Gly Leu Lys Glu
 435 440 445
 Leu Glu Ala Leu His Glu Gln Leu Val Ser Asn Leu Lys Leu Ala Met
 450 455 460
 Ser Val Phe Phe Ser Ser Asp Val Pro Ser Ala Arg Arg Leu Arg Arg
 465 470 475 480
 Asn Lys His Arg Phe Arg Ile Leu Asn Arg Arg Tyr Ser His Ala His
 485 490 495
 Val Glu Arg Leu His Gln Gln Asn Val Gln Ser Ile Glu Thr Ser Ser
 500 505 510
 Leu His Leu Gly Leu Leu Gly Asp Met Lys Arg Leu Asn Ser Leu Phe
 515 520 525
 Cys Ala Val Ala Tyr Ser Val Met Glu Gln Pro Asp Glu Asp Asp Glu
 530 535 540
 Arg Asp Glu Tyr
 545

<210> 7630

<211> 144

<212> PRT

<213> Enterobacter cloacae

<400> 7630

Ala Pro Phe Leu Ser Gly Glu Phe Ile Met Ala Lys Glu Phe Gly Arg
 1 5 10 15
 Pro Gln Arg Val Ala Gln Glu Met Gln Lys Glu Ile Ala Leu Ile Leu
 20 25 30
 Gln Arg Glu Ile Lys Asp Pro Arg Val Gly Met Met Thr Thr Val Ser
 35 40 45
 Gly Val Glu Met Ser Arg Asp Leu Ala Tyr Ala Lys Val Phe Val Thr
 50 55 60

Phe Leu Asn Asp Gln Asp Glu Asp Ala Val Lys Asn Gly Ile Lys Ala
 65 70 75 80
 Leu Gln Glu Ala Ser Gly Phe Ile Arg Ser Leu Leu Gly Lys Ala Met
 85 90 95
 Arg Leu Arg Ile Val Pro Glu Leu Thr Phe Phe Tyr Asp Asn Ser Leu
 100 105 110
 Val Glu Gly Met Arg Met Ser Asn Leu Val Thr Ser Val Val Lys His
 115 120 125
 Asp Asp Glu Arg Arg Val Asn Pro Ala Asp Asp Ser Lys Glu Asp
 130 135 140

<210> 7631

<211> 175

<212> PRT

<213> Enterobacter cloacae

<400> 7631

Arg Lys Val Thr Lys Gly Asn Ser Ser Val Trp Ala Lys Trp Thr Ala
 1 5 10 15
 Lys Gly Val Trp Arg Arg Val Val Trp Ser Ser Asn Ile Arg Ser Lys
 20 25 30
 Arg Asp Gly Asp Asn Ala Leu Pro Cys Asp Lys Gln Gly Arg Arg Val
 35 40 45
 Glu Tyr Arg Arg Leu Thr Pro Gly Lys Leu Phe Asn Asn Leu Arg Gly
 50 55 60
 Val His Gly Ile Ala Glu Leu Glu Ile Gly Ile Leu Thr Phe Phe Ile
 65 70 75 80
 Leu Trp Ser Leu Lys Met Ser Leu Ser Val Glu Ala Lys Ala Lys Ile
 85 90 95
 Val Ser Glu Phe Gly Arg Gly Thr Asn Asp Ser Gly Ser Thr Glu Val
 100 105 110
 Gln Val Ala Leu Leu Thr Ala Gln Ile Asn His Leu Gln Gly His Phe
 115 120 125
 Ala Glu His Lys Lys Asp His His Ser Arg Arg Gly Leu Leu Arg Met
 130 135 140
 Val Ser Gln Arg Arg Lys Leu Leu Asp Tyr Leu Lys Arg Lys Asp Val
 145 150 155 160
 Ala Arg Tyr Thr Ala Leu Ile Glu Arg Leu Gly Leu Arg Arg
 165 170 175

<210> 7632

<211> 185

<212> PRT

<213> Enterobacter cloacae

<400> 7632

Gln Asp Tyr Ser Tyr Gln Gly Val Lys Leu Val Leu Asp Lys Leu Arg
 1 5 10 15
 Ser Arg Leu Val Gln Phe Gly Pro Ser Met Leu Ser Val Pro Val Lys
 20 25 30
 Leu Ala Pro Phe Ala Leu Lys Arg Gln Val Leu Glu Gln Val Leu Ser
 35 40 45
 Trp Gln Phe Arg Gln Ala Leu Gln Asp Gly Glu Leu Glu Phe Leu Glu
 50 55 60
 Gly Arg Trp Leu Lys Ile Glu Val Arg Asp Ile Gly Leu Arg Trp Phe
 65 70 75 80
 Thr Ser Val Glu Asn Asp Arg Leu Ile Val Arg Glu Thr Ala Glu Ala
 85 90 95
 Asp Val Ser Phe Ser Ala Asp Ala Ser Asp Leu Leu Met Ile Ala Ala
 100 105 110
 Arg Lys Gln Asp Pro Asp Thr Leu Phe Phe Gln Arg Arg Leu Val Ile

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<210> 7633
<211> 164
<212> PRT
<213> Enterobacter cloacae
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<210> 7634
<211> 337
<212> PRT
<213> Enterobacter cloacae
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<400> 7634																
Thr	Ala	Arg	Arg	Val	Arg	Leu	Pro	Phe	Ala	Leu	Arg	Ala	Gly	Gly	Gly	
1				5					10					15		
Leu	Ile	Ile	Arg	Gln	Asp	Ala	Leu	Leu	Ser	Arg	Arg	Gly	Thr	Gly	Arg	
			20					25					30			
Ser	Ser	Asn	Ser	Cys	Leu	Arg	Glu	Trp	Glu	Met	Lys	Pro	Phe	Leu	Arg	
		35					40					45				
Trp	Cys	Phe	Val	Ala	Thr	Ala	Leu	Thr	Leu	Ala	Gly	Cys	Ser	Asn	Ser	
	50					55					60					
Ala	Trp	Arg	Lys	Ser	Glu	Val	Leu	Ala	Val	Pro	Leu	Gln	Pro	Thr	Leu	
65					70					75					80	
Gln	Gln	Glu	Val	Ile	Leu	Ala	Arg	Met	Glu	Gln	Ile	Leu	Ala	Ser	Arg	
				85					90					95		
Ala	Leu	Thr	Asp	Asp	Glu	Arg	Ala	Gln	Leu	Leu	Tyr	Glu	Arg	Gly	Val	
			100					105					110			
Leu	Tyr	Asp	Ser	Leu	Gly	Leu	Arg	Ala	Leu	Ala	Arg	Asn	Asp	Phe	Ser	
		115					120					125				

Gln Ala Leu Ala Ile Arg Pro Asp Met Pro Glu Val Phe Asn Tyr Leu
 130 135 140
 Gly Ile Tyr Leu Thr Gln Ala Gly Asn Phe Asp Ala Ala Tyr Glu Ala
 145 150 155 160
 Phe Asp Ser Val Leu Glu Leu Asp Pro Thr Tyr Asn Tyr Ala His Leu
 165 170 175
 Asn Arg Gly Ile Ala Leu Tyr Tyr Gly Gly Arg Asp Lys Leu Ala Gln
 180 185 190
 Asp Asp Leu Leu Ala Phe Tyr Gln Asp Asp Pro Asn Asp Pro Phe Arg
 195 200 205
 Ser Leu Trp Leu Tyr Ile Val Glu Gln Lys Leu Asp Glu Lys Gln Ala
 210 215 220
 Lys Glu Ala Leu Lys Gln Arg Phe Glu Lys Ser Asp Lys Glu Gln Trp
 225 230 235 240
 Gly Trp Asn Ile Val Glu Phe Tyr Leu Gly Asn Ile Ser Glu Ala Thr
 245 250 255
 Leu Met Glu Arg Leu Lys Ala Asp Ala Thr Asp Asn Thr Ser Leu Ala
 260 265 270
 Glu His Leu Ser Glu Thr Asn Phe Tyr Leu Gly Lys Tyr Tyr Leu Ser
 275 280 285
 Leu Gly Asp Met Asp Ser Ala Thr Ala Leu Phe Lys Leu Ala Val Ala
 290 295 300
 Asn Asn Val His Asn Phe Val Glu His Arg Tyr Ala Leu Leu Glu Leu
 305 310 315 320
 Ser Leu Leu Gly Gln Glu Gln Asp Asp Leu Ala Glu Ser Asp Gln Gln
 325 330 335

<210> 7635

<211> 645

<212> PRT

<213> Enterobacter cloacae

<400> 7635

Val Asp Trp Pro Pro Leu Ile Ser Arg His Leu Tyr Tyr Met Ala Glu
 1 5 10 15
 Phe Glu Thr Thr Phe Ala Asp Leu Gly Leu Lys Ala Pro Ile Leu Glu
 20 25 30
 Ala Leu Asn Asp Leu Gly Tyr Glu Lys Pro Ser Pro Ile Gln Ala Glu
 35 40 45
 Cys Ile Pro His Leu Leu Ser Gly Arg Asp Val Leu Gly Met Ala Gln
 50 55 60
 Thr Gly Ser Gly Lys Thr Ala Ala Phe Ser Leu Pro Leu Leu Asn Asn
 65 70 75 80
 Ile Asp Pro Asp Leu Arg Ala Pro Gln Ile Leu Val Leu Ala Pro Thr
 85 90 95
 Arg Glu Leu Ala Val Gln Val Ala Glu Ala Met Thr Glu Phe Ser Lys
 100 105 110
 His Met Arg Gly Val Asn Val Val Ala Leu Tyr Gly Gly Gln Arg Tyr
 115 120 125
 Asp Val Gln Leu Arg Ala Leu Arg Gln Gly Pro Gln Ile Val Val Gly
 130 135 140
 Thr Pro Gly Arg Leu Leu Asp His Leu Lys Arg Gly Thr Leu Asp Leu
 145 150 155 160
 Ser Lys Leu Ser Gly Leu Val Leu Asp Glu Ala Asp Glu Met Leu Arg
 165 170 175
 Met Gly Phe Ile Glu Asp Val Glu Thr Ile Met Ala Gln Ile Pro Glu
 180 185 190
 Gly His Gln Thr Ala Leu Phe Ser Ala Thr Met Pro Glu Ala Ile Arg
 195 200 205

Arg Ile Thr Arg Arg Phe Met Lys Glu Pro Gln Glu Val Arg Ile Gln
 210 215 220
 Ser Ser Val Thr Thr Arg Pro Asp Ile Ser Gln Ser Tyr Trp Ser Val
 225 230 235 240
 Tyr Gly Met Arg Lys Asn Glu Ala Leu Val Arg Phe Leu Glu Ala Glu
 245 250 255
 Asp Phe Asp Ala Ala Ile Ile Phe Val Arg Thr Lys Asn Ala Thr Leu
 260 265 270
 Glu Val Ala Glu Ala Leu Glu Arg Ser Gly Tyr Asn Ser Ala Ala Leu
 275 280 285
 Asn Gly Asp Met Asn Gln Ala Leu Arg Glu Gln Thr Leu Glu Arg Leu
 290 295 300
 Lys Asp Gly Arg Leu Asp Ile Leu Ile Ala Thr Asp Val Ala Ala Arg
 305 310 315 320
 Gly Leu Asp Val Glu Arg Ile Ser Leu Val Val Asn Tyr Asp Ile Pro
 325 330 335
 Met Asp Ser Glu Ser Tyr Ile His Arg Ile Gly Arg Thr Gly Arg Ala
 340 345 350
 Gly Arg Ala Gly Arg Ala Leu Leu Phe Val Glu Asn Arg Glu Arg Arg
 355 360 365
 Leu Leu Arg Asn Ile Glu Arg Ser Met Lys Leu Thr Ile Pro Glu Ala
 370 375 380
 Glu Leu Pro Asn Ala Lys Leu Leu Gly Lys Arg Arg Leu Glu Lys Phe
 385 390 395 400
 Ala Ala Arg Val Gln Gln Gln Leu Glu Ser Ile Asp Leu Asp Gln Tyr
 405 410 415
 Arg Ala Leu Leu Ser Gln Ile Gln Pro Val Ala Glu Gly Glu Glu Leu
 420 425 430
 Asp Met Glu Thr Leu Ala Ala Ala Leu Leu Lys Met Ala Gln Gly Glu
 435 440 445
 Arg Ser Leu Ile Val Pro Pro Asp Ala Pro Met Arg Pro Lys Arg Glu
 450 455 460
 Phe Arg Asp Arg Asp Asp Arg Phe Glu Arg Arg Gly Asp Arg Asn Asp
 465 470 475 480
 Arg Gly Pro Arg Gly Asp Arg Pro Glu Arg Gly Gly Glu Asp Arg Pro
 485 490 495
 Arg Arg Glu Arg Arg Asp Ala Gly Glu Met Glu Leu Tyr Arg Ile Glu
 500 505 510
 Val Gly Arg Asp Asp Gly Val Glu Val Arg His Ile Val Gly Ala Ile
 515 520 525
 Ala Asn Glu Gly Asp Ile Ser Ser Arg Tyr Ile Gly Asn Ile Lys Leu
 530 535 540
 Phe Gly Ser His Ser Thr Ile Glu Leu Pro Lys Gly Met Pro Gly Glu
 545 550 555 560
 Val Leu Gln His Phe Thr Arg Thr Arg Ile Leu Asn Lys Pro Met Asn
 565 570 575
 Met Gln Leu Leu Gly Asp Ala Gln Pro Arg Pro Asp Arg Gly Gly Glu
 580 585 590
 Arg Arg Gly Gly Gly Arg Gly Phe Gly Gly Glu Arg Arg Glu Gly Gly
 595 600 605
 Arg Ser Glu Gly Arg Gly Gly Glu Gly Arg Arg Phe Ser Gly Glu Arg
 610 615 620
 Arg Glu Asn Arg Gly Pro Arg Arg Glu Glu Gly Ala Ser Arg Arg Arg
 625 630 635 640
 Phe Gly Asp Ala
 645

<210> 7636

<211> 241

<212> PRT

<213> Enterobacter cloacae

<400> 7636

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Ile Leu Thr Gly Asn Arg Leu Leu Ser Val Val Glu Gln Ala Gln Asn
1      5      10      15
Ala Asn Gly Gln Phe Cys Lys Gly Asp Lys Met Ser Gln Val Leu Ile
      20      25      30
Thr Gly Ala Thr Gly Leu Val Gly Gly His Leu Leu Arg Leu Leu Ile
      35      40      45
Gln Asp Arg His Ile Asn Tyr Ile Ala Ala Pro Thr Arg Arg Pro Leu
      50      55      60
Leu Asp Ile Thr Gly Val Tyr Asn Pro His Asp Pro Gln Leu Thr Asp
65      70      75      80
Ala Leu Ala Gln Val Gln Asp Pro Ile Asp Ile Ala Phe Cys Cys Leu
      85      90      95
Gly Thr Thr Arg Arg Glu Ala Gly Ser Lys Glu Ala Phe Val His Ala
      100     105     110
Asp Tyr Thr Leu Val Val Asp Thr Ala Leu Thr Ala Lys Lys Leu Gly
      115     120     125
Ala Lys His Phe Leu Val Val Ser Ala His Gly Ala Asn Ala Gly Ser
      130     135     140
Pro Phe Phe Tyr Asn Gln Val Lys Gly Lys Met Glu Glu Ala Leu Ile
145     150     155     160
Ala Gln Lys Trp Glu Arg Leu Thr Ile Ala Arg Pro Ser Met Leu Met
      165     170     175
Gly His Arg Asp Glu Arg Arg Phe Asn Glu Ser Phe Phe Ala Pro Leu
      180     185     190
Phe Arg Ile Leu Pro Gly Asn Trp Lys Ser Ile Glu Ala Arg Asp Val
      195     200     205
Ala Leu Ala Met Leu Lys Glu Ala Leu Ala Pro Ser Gln Glu Gly Val
      210     215     220
Asn Ile Ile Pro Ser Ala Lys Leu Arg Glu Ile Ala Gln Gly Glu Ala
225     230     235     240

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<210> 7637

<211> 506

<212> PRT

<213> Enterobacter cloacae

<400> 7637

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Gly Glu Lys Pro Ala Met Asn Lys Glu Ile Leu Ala Val Val Glu Ala
1      5      10      15
Val Ser Asn Glu Lys Ser Leu Pro Arg Glu Lys Ile Phe Glu Ala Leu
      20      25      30
Glu Ser Ala Leu Ala Thr Ala Thr Lys Lys Lys Tyr Glu Gln Glu Ile
      35      40      45
Asp Val Arg Val Glu Ile Asp Arg Lys Ser Gly Asp Phe Asp Thr Phe
      50      55      60
Arg Arg Trp Val Ile Val Glu Glu Val Thr Gln Pro Thr Lys Glu Ile
      65      70      75      80
Thr Leu Glu Ala Ala Arg Phe Glu Asp Glu Ser Leu Asn Val Gly Asp
      85      90      95
Tyr Val Glu Asp Gln Ile Glu Ser Val Thr Phe Asp Arg Ile Thr Thr
      100     105     110
Gln Thr Ala Lys Gln Val Ile Val Gln Lys Val Arg Glu Ala Glu Arg
      115     120     125
Ala Leu Val Val Asp Gln Phe Arg Asp Gln Glu Gly Glu Ile Ile Thr
      130     135     140
Gly Val Val Lys Lys Val Asn Arg Asp Asn Ile Ser Leu Glu Ile Lys
145     150     155     160

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Ser Glu Gly Leu Pro Gly Asn Ala Glu Ala Val Ile Leu Arg Glu Asp
 165 170 175
 Met Leu Pro Arg Glu Asn Phe Arg Pro Gly Asp Arg Ile Arg Gly Val
 180 185 190
 Leu Tyr Ala Val Arg Pro Glu Ala Arg Gly Ala Gln Leu Phe Val Thr
 195 200 205
 Arg Ser Lys Pro Glu Met Leu Val Glu Leu Phe Arg Ile Glu Val Pro
 210 215 220
 Glu Ile Gly Glu Glu Val Ile Glu Ile Lys Ala Ala Arg Asp Pro
 225 230 235 240
 Gly Ser Arg Ala Lys Ile Ala Val Lys Thr Asn Asp Lys Arg Ile Asp
 245 250 255
 Pro Val Gly Ala Cys Val Gly Met Arg Gly Ala Arg Val Gln Ala Val
 260 265 270
 Ser Thr Glu Leu Gly Gly Glu Arg Ile Asp Ile Val Leu Trp Asp Asp
 275 280 285
 Asn Pro Ala Gln Phe Val Ile Asn Ala Met Ala Pro Ala Asp Val Ala
 290 295 300
 Ser Ile Val Val Asp Glu Asp Lys His Thr Met Asp Ile Ala Val Glu
 305 310 315 320
 Ala Gly Asn Leu Ala Gln Ala Ile Gly Arg Asn Gly Gln Asn Val Arg
 325 330 335
 Leu Ala Ser Gln Leu Ser Gly Trp Glu Leu Asn Val Met Thr Val Asp
 340 345 350
 Asp Leu Gln Ala Lys His Gln Ala Glu Ala His Ala Ala Ile Asp Thr
 355 360 365
 Phe Thr Lys Tyr Leu Asp Ile Asp Glu Asp Phe Ala Thr Val Leu Val
 370 375 380
 Glu Glu Gly Phe Ser Thr Leu Glu Glu Leu Ala Tyr Val Pro Met Lys
 385 390 395 400
 Glu Leu Leu Glu Ile Asp Gly Leu Asp Glu Pro Thr Val Glu Ala Leu
 405 410 415
 Arg Glu Arg Ala Lys Asn Ala Leu Thr Thr Leu Ala Leu Ala Gln Glu
 420 425 430
 Glu Ser Leu Gly Asp Lys Lys Pro Ala Asp Asp Leu Leu Asn Leu Glu
 435 440 445
 Gly Leu Asp Arg Ala Ile Ala Phe Lys Leu Ala Ala Arg Gly Val Cys
 450 455 460
 Thr Leu Glu Asp Leu Ala Glu Gln Gly Val Asp Asp Leu Ala Asp Ile
 465 470 475 480
 Glu Gly Leu Thr Asp Glu Lys Ala Gly Glu Leu Ile Met Ala Ala Arg
 485 490 495
 Asn Ile Cys Trp Phe Gly Asp Glu Ala
 500 505

<210> 7638

<211> 903

<212> PRT

<213> Enterobacter cloacae

<400> 7638

Thr Val Ala Gly Arg Asn Ser Met Thr Asp Val Thr Val Lys Ser Leu
 1 5 10 15
 Ala Ala Glu Ile Gln Thr Ser Val Asp Arg Leu Val Gln Gln Phe Ala
 20 25 30
 Asp Ala Gly Ile Pro Lys Ser Ala Asp Asp Ser Val Thr Ala Gln Glu
 35 40 45
 Lys Gln Thr Leu Leu Ala His Leu Asn Arg Glu His Gly Ser Thr Pro
 50 55 60
 Asp Lys Leu Thr Leu Gln Arg Lys Thr Arg Ser Thr Leu Asn Ile Pro
 65 70 75 80

Gly	Thr	Gly	Gly	Lys	Ser	Lys	Ser	Val	Gln	Ile	Glu	Val	Arg	Lys	Thr		
				85					90					95			
Arg	Thr	Phe	Val	Lys	Arg	Asp	Pro	Gln	Glu	Ala	Glu	Arg	Leu	Ala	Ala		
			100					105					110				
Glu	Glu	Gln	Ala	Gln	Arg	Glu	Ala	Glu	Glu	Gln	Ala	Gln	Arg	Glu	Ala		
		115					120					125					
Glu	Ala	Thr	Ala	Lys	Arg	Glu	Ala	Glu	Leu	Lys	Ala	Glu	Arg	Glu	Ala		
		130					135					140					
Ala	Glu	Lys	Ala	Lys	Arg	Asp	Ala	Gly	Glu	Lys	Ala	Lys	Arg	Asp	Ala		
145					150					155					160		
Ala	Glu	Lys	Asp	Lys	Val	Ser	Asn	Gln	Gln	Thr	Asp	Glu	Met	Thr	Lys		
				165				170						175			
Thr	Ala	Gln	Ala	Glu	Lys	Ala	Arg	Arg	Glu	Asn	Glu	Ala	Ala	Glu	Leu		
			180					185					190				
Lys	Arg	Lys	Ala	Glu	Glu	Glu	Ala	Arg	Arg	Lys	Leu	Glu	Glu	Glu	Ala		
		195					200					205					
Arg	Arg	Val	Ala	Glu	Glu	Ala	Arg	Arg	Met	Ala	Glu	Glu	Asn	Glu	Lys		
		210					215				220						
Asn	Gly	Val	Asn	Thr	Ala	Glu	Pro	Thr	Glu	Asp	Thr	Ser	Asp	Tyr	His		
225					230					235					240		
Val	Thr	Thr	Ser	Gln	His	Ala	Arg	Gln	Ala	Glu	Asp	Asp	Asn	Asp	Arg		
				245				250					255				
Glu	Val	Glu	Gly	Gly	Arg	Gly	Arg	Thr	Arg	Ser	Ala	Lys	Ala	Ala	Arg		
			260					265					270				
Pro	Ala	Lys	Lys	Gly	Asn	Lys	His	Ala	Glu	Ser	Lys	Ala	Asp	Arg	Glu		
		275					280					285					
Glu	Ala	Arg	Ala	Ala	Val	Arg	Gly	Gly	Lys	Gly	Gly	Lys	Arg	Lys	Gly		
		290					295				300						
Ser	Ala	Leu	Gln	Gln	Gly	Phe	Gln	Lys	Pro	Ala	Gln	Ala	Val	Asn	Arg		
305					310				315					320			
Asp	Val	Val	Ile	Gly	Glu	Thr	Ile	Thr	Val	Gly	Glu	Leu	Ala	Asn	Lys		
				325				330						335			
Met	Ala	Val	Lys	Gly	Ser	Gln	Val	Ile	Lys	Ala	Met	Met	Lys	Leu	Gly		
			340					345					350				
Ala	Met	Ala	Thr	Ile	Asn	Gln	Val	Ile	Asp	Gln	Glu	Thr	Ala	Gln	Leu		
		355					360						365				
Val	Ala	Glu	Glu	Met	Gly	His	Lys	Val	Ile	Leu	Arg	Arg	Glu	Asn	Glu		
		370					375				380						
Leu	Glu	Glu	Ala	Val	Met	Ser	Asp	Arg	Asp	Thr	Gly	Ala	Ala	Ala	Glu		
385					390				395					400			
Pro	Arg	Ala	Pro	Val	Val	Thr	Ile	Met	Gly	His	Val	Asp	His	Gly	Lys		
				405				410					415				
Thr	Ser	Leu	Leu	Asp	Tyr	Ile	Arg	Ser	Thr	Lys	Val	Ala	Ser	Gly	Glu		
			420					425					430				
Ala	Gly	Gly	Ile	Thr	Gln	His	Ile	Gly	Ala	Tyr	His	Val	Glu	Thr	Glu		
		435					440					445					
Asn	Gly	Met	Ile	Thr	Phe	Leu	Asp	Thr	Pro	Gly	His	Ala	Ala	Phe	Thr		
		450					455				460						
Ser	Met	Arg	Ala	Arg	Gly	Ala	Gln	Ala	Thr	Asp	Ile	Val	Val	Leu	Val		
465					470				475					480			
Val	Ala	Ala	Asp	Asp	Gly	Val	Met	Pro	Gln	Thr	Ile	Glu	Ala	Ile	Gln		
				485				490						495			
His	Ala	Lys	Ala	Ala	Gln	Val	Pro	Leu	Val	Val	Ala	Val	Asn	Lys	Ile		
			500					505					510				
Asp	Lys	Pro	Glu	Ala	Asp	Met	Asp	Arg	Val	Lys	Asn	Glu	Leu	Ser	Gln		
		515					520					525					
Tyr	Gly	Val	Met	Pro	Glu	Glu	Trp	Gly	Gly	Glu	Ala	Gln	Phe	Ile	Pro		
		530					535				540						
Val	Ser	Ala	Lys	Ala	Gly	Thr	Gly	Ile	Asp	Asp	Leu	Leu	Asn	Ala	Ile		
545					550				555					560			
Leu	Leu	Gln	Ala	Glu	Val	Leu	Glu	Leu	Lys	Ala	Val	Arg	Lys	Gly	Met		

565 570 575
 Ala Ser Gly Ala Val Ile Glu Ser Phe Leu Asp Lys Gly Arg Gly Pro
 580 585 590
 Val Ala Thr Val Leu Val Arg Glu Gly Thr Leu His Lys Gly Asp Ile
 595 600 605
 Val Leu Cys Gly Phe Glu Tyr Gly Arg Val Arg Ala Met Arg Asn Glu
 610 615 620
 Leu Gly Gln Glu Val Leu Glu Ala Gly Pro Ser Ile Pro Val Glu Ile
 625 630 635 640
 Leu Gly Leu Ser Gly Val Pro Ala Ala Gly Asp Glu Val Thr Val Val
 645 650 655
 Arg Asp Glu Lys Lys Ala Arg Glu Val Ala Leu Tyr Arg Gln Gly Lys
 660 665 670
 Phe Arg Glu Val Lys Leu Ala Arg Gln Gln Lys Ser Lys Leu Glu Asn
 675 680 685
 Met Phe Ala Asn Met Thr Glu Gly Glu Val His Glu Val Asn Val Val
 690 695 700
 Leu Lys Ala Asp Val Gln Gly Ser Val Glu Ala Ile Ser Asp Ser Leu
 705 710 715 720
 Leu Lys Leu Ser Thr Asp Glu Val Lys Val Lys Ile Ile Gly Ser Gly
 725 730 735
 Val Gly Gly Ile Thr Glu Thr Asp Ala Thr Leu Ala Ala Ala Ser Asn
 740 745 750
 Ala Ile Leu Val Gly Phe Asn Val Arg Ala Asp Ala Ser Ala Arg Lys
 755 760 765
 Val Ile Asp Ala Glu Ser Leu Asp Leu Arg Tyr Tyr Ser Val Ile Tyr
 770 775 780
 Asn Leu Ile Asp Glu Val Lys Ala Ala Met Ser Gly Met Leu Ser Pro
 785 790 795 800
 Glu Leu Lys Gln Gln Ile Ile Gly Leu Ala Glu Val Arg Asp Val Phe
 805 810 815
 Lys Ser Pro Lys Phe Gly Ala Ile Ala Gly Cys Met Val Thr Glu Gly
 820 825 830
 Thr Ile Lys Arg His Asn Pro Ile Arg Val Leu Arg Asp Asn Val Val
 835 840 845
 Ile Tyr Glu Gly Glu Leu Glu Ser Leu Arg Arg Phe Lys Asp Asp Val
 850 855 860
 Asn Glu Val Arg Asn Gly Met Glu Cys Gly Ile Gly Val Lys Asn Tyr
 865 870 875 880
 Asn Asp Val Arg Val Gly Asp Met Ile Glu Val Phe Glu Ile Ile Glu
 885 890 895
 Ile Gln Arg Thr Ile Ala
 900

<210> 7639

<211> 326

<212> PRT

<213> Enterobacter cloacae

<400> 7639

Pro Gly Gly Arg Gln Gln Gly Gly Leu Met Ser Arg Pro Arg Arg Arg
 1 5 10 15
 Gly Arg Asp Val His Gly Val Leu Leu Leu Asp Lys Pro Gln Gly Ala
 20 25 30
 Ser Ser Asn Asp Val Leu Gln Lys Val Lys Arg Ile Tyr Asn Ala Asn
 35 40 45
 Arg Ala Gly His Thr Gly Ala Leu Asp Pro Leu Ala Thr Gly Met Leu
 50 55 60
 Pro Ile Cys Leu Gly Glu Ala Thr Lys Phe Ser Gln Tyr Leu Leu Asp
 65 70 75 80
 Ser Asp Lys Arg Tyr Arg Val Ile Ala Lys Leu Gly Gln Arg Thr Asp

				85				90					95				
Thr	Ser	Asp	Ala	Asp	Gly	Gln	Val	Val	Glu	Glu	Arg	Pro	Val	Thr	Phe		
			100					105					110				
Ser	Ala	Glu	Gln	Leu	Asp	Ala	Ala	Leu	Asp	Ser	Phe	Arg	Gly	Asp	Thr		
		115					120					125					
Leu	Gln	Val	Pro	Ser	Met	Tyr	Ser	Ala	Leu	Lys	Tyr	Gln	Gly	Lys	Lys		
		130				135					140						
Leu	Tyr	Glu	Tyr	Ala	Arg	Gln	Gly	Ile	Glu	Val	Pro	Arg	Glu	Ala	Arg		
145					150					155					160		
Pro	Ile	Thr	Val	Tyr	Glu	Leu	Leu	Phe	Ile	Arg	His	Glu	Gly	Asp	Glu		
				165					170					175			
Leu	Glu	Leu	Glu	Val	His	Cys	Ser	Lys	Gly	Thr	Tyr	Ile	Arg	Thr	Ile		
			180					185					190				
Ile	Asp	Asp	Leu	Gly	Glu	Lys	Leu	Gly	Cys	Gly	Ala	His	Val	Ile	Tyr		
		195					200					205					
Leu	Arg	Arg	Leu	Ala	Val	Ser	Lys	Tyr	Pro	Val	Glu	Arg	Met	Val	Thr		
		210				215					220						
Leu	Glu	His	Leu	His	Ala	Leu	Ile	Glu	Gln	Ala	Gln	Ala	Gln	Gly	Val		
225					230					235					240		
Ala	Pro	Ala	Asp	Leu	Leu	Asp	Pro	Leu	Leu	Met	Pro	Met	Asp	Ser	Pro		
				245					250					255			
Ala	Val	Asp	Phe	Pro	Val	Val	Asn	Leu	Pro	Leu	Thr	Ser	Ser	Val	Tyr		
			260					265						270			
Phe	Lys	Asn	Gly	Asn	Pro	Val	Arg	Thr	Thr	Gly	Ala	Pro	Leu	Glu	Gly		
		275					280					285					
Leu	Val	Arg	Val	Thr	Glu	Gly	Asp	Glu	Gly	Lys	Phe	Ile	Gly	Met	Gly		
		290				295					300						
Glu	Met	Asp	Gly	Glu	Gly	Arg	Val	Ala	Pro	Arg	Arg	Leu	Val	Val	Glu		
305					310					315					320		
Tyr	Pro	Val	Glu	Ala													
				325													

<210> 7640

<211> 740

<212> PRT

<213> Enterobacter cloacae

<400> 7640

Ser	Arg	Gly	Cys	Glu	Glu	Gly	Arg	Val	Lys	Ser	Ser	Ala	His	Leu	Arg		
1				5					10					15			
Cys	Ala	Phe	Lys	His	Leu	Arg	Lys	Asp	Arg	Thr	Leu	Leu	Asn	Pro	Ile		
			20					25					30				
Val	Arg	Lys	Phe	Gln	Tyr	Gly	Gln	His	Thr	Val	Thr	Leu	Glu	Thr	Gly		
		35				40						45					
Met	Met	Ala	Arg	Gln	Ala	Thr	Ala	Ala	Val	Met	Val	Ser	Met	Asp	Asp		
		50				55					60						
Thr	Ala	Val	Phe	Val	Thr	Val	Val	Gly	Gln	Lys	Lys	Ala	Lys	Pro	Gly		
65					70					75				80			
Gln	Asp	Phe	Phe	Pro	Leu	Thr	Val	Asn	Tyr	Gln	Glu	Arg	Thr	Tyr	Ala		
				85					90					95			
Ala	Gly	Lys	Ile	Pro	Gly	Gly	Phe	Phe	Arg	Arg	Glu	Gly	Arg	Pro	Ser		
			100					105					110				
Glu	Gly	Glu	Thr	Leu	Ile	Ala	Arg	Leu	Ile	Asp	Arg	Pro	Val	Arg	Pro		
		115				120						125					
Leu	Phe	Pro	Glu	Gly	Phe	Val	Asn	Glu	Val	Gln	Val	Ile	Ala	Thr	Val		
		130				135					140						
Val	Ser	Val	Asn	Pro	Gln	Val	Asn	Pro	Asp	Ile	Val	Ala	Met	Ile	Gly		
145					150					155				160			
Ala	Ser	Ala	Ala	Leu	Ser	Leu	Ser	Gly	Ile	Pro	Phe	Asn	Gly	Pro	Ile		
				165					170					175			
Gly	Ala	Ala	Arg	Val	Gly	Tyr	Ile	Asn	Asp	Gln	Tyr	Val	Leu	Asn	Pro		

						180												190
Thr	Gln	Glu	Glu	Leu	Lys	Glu	Ser	Lys	Leu	Asp	Leu	Val	Val	Ala	Gly			
		195					200					205						
Thr	Glu	Ala	Ala	Val	Leu	Met	Val	Glu	Ser	Glu	Ala	Glu	Leu	Leu	Ser			
	210					215					220							
Glu	Asp	Gln	Met	Leu	Gly	Ala	Val	Val	Phe	Gly	His	Asp	Gln	Gln	Gln			
225					230					235					240			
Val	Val	Ile	Gln	Asn	Ile	Asn	Asp	Leu	Val	Lys	Glu	Ala	Gly	Lys	Pro			
				245					250					255				
Arg	Trp	Asp	Trp	Gln	Pro	Glu	Ala	Ala	Asn	Asp	Ala	Leu	Asn	Ala	Arg			
			260					265					270					
Val	Ala	Ala	Leu	Ala	Glu	Ser	Arg	Leu	Ser	Asp	Ala	Tyr	Arg	Ile	Thr			
	275						280					285						
Asp	Lys	Gln	Glu	Arg	Tyr	Ala	Gln	Val	Asp	Val	Ile	Lys	Ser	Glu	Val			
	290					295					300							
Thr	Ala	Thr	Leu	Val	Ala	Glu	Asp	Glu	Thr	Leu	Asp	Ala	Asn	Glu	Ile			
305					310					315				320				
Gly	Glu	Ile	Leu	His	Ala	Ile	Glu	Lys	Asn	Val	Val	Arg	Ser	Arg	Val			
				325					330					335				
Leu	Ala	Gly	Glu	Pro	Arg	Ile	Asp	Gly	Arg	Glu	Lys	Asp	Met	Ile	Arg			
			340					345					350					
Gly	Leu	Asp	Val	Arg	Thr	Gly	Val	Leu	Pro	Arg	Thr	His	Gly	Ser	Ala			
	355						360					365						
Leu	Phe	Thr	Arg	Gly	Glu	Thr	Gln	Ala	Leu	Val	Thr	Ala	Thr	Leu	Gly			
	370					375					380							
Thr	Ala	Arg	Asp	Ala	Gln	Ile	Ile	Asp	Glu	Leu	Met	Gly	Glu	Arg	Thr			
385					390					395				400				
Asp	Ser	Phe	Leu	Phe	His	Tyr	Asn	Phe	Pro	Pro	Tyr	Ser	Val	Gly	Glu			
				405				410						415				
Thr	Gly	Met	Val	Gly	Ser	Pro	Lys	Arg	Arg	Glu	Ile	Gly	His	Gly	Arg			
			420					425					430					
Leu	Ala	Lys	Arg	Gly	Val	Leu	Ala	Val	Met	Pro	Glu	Ala	Asp	Lys	Phe			
		435					440					445						
Pro	Tyr	Thr	Val	Arg	Val	Val	Ser	Glu	Ile	Thr	Glu	Ser	Asn	Gly	Ser			
	450					455					460							
Ser	Ser	Met	Ala	Ser	Val	Cys	Gly	Ala	Ser	Leu	Ala	Leu	Met	Asp	Ala			
465					470					475				480				
Gly	Val	Pro	Ile	Lys	Ala	Ala	Val	Ala	Gly	Ile	Ala	Met	Gly	Leu	Val			
				485					490					495				
Lys	Glu	Gly																

Glu Gly Leu Val His Ile Ser Gln Ile Ala Asp Lys Arg Val Glu Lys
 675 680 685
 Val Thr Asp Tyr Leu Gln Met Gly Gln Glu Val Pro Val Lys Val Leu
 690 695 700
 Glu Val Asp Arg Gln Gly Arg Ile Arg Leu Ser Ile Lys Glu Ala Thr
 705 710 715 720
 Glu Gln Ser Gln Pro Ala Ala Ala Pro Glu Ala Pro Ala Ala Glu Gln
 725 730 735
 Gln Gly Glu
 740

<210> 7641

<211> 417

<212> PRT

<213> Enterobacter cloacae

<220>

<221> UNSURE

<222> (387)

<400> 7641

Gly Arg Met Ala Thr Leu Thr Thr Thr Gln Thr Ser Pro Ser Leu Leu
 1 5 10 15
 Gly Gly Val Val Ile Ile Gly Gly Thr Ile Ile Gly Ala Gly Met Phe
 20 25 30
 Ser Leu Pro Val Val Met Ser Gly Ala Trp Phe Phe Trp Ser Leu Ala
 35 40 45
 Ala Leu Val Phe Thr Trp Phe Cys Met Leu His Ser Gly Leu Met Ile
 50 55 60
 Leu Glu Ala Asn Leu Asn Tyr Arg Ile Gly Ser Ser Phe Asp Thr Leu
 65 70 75 80
 Thr Arg Asp Leu Leu Gly Lys Gly Trp Asn Leu Val Asn Gly Leu Ser
 85 90 95
 Ile Ala Phe Val Leu Tyr Ile Leu Thr Tyr Ala Tyr Ile Ser Ala Ser
 100 105 110
 Gly Ser Ile Leu His His Thr Phe Ser Glu Met Ser Leu Asn Val Pro
 115 120 125
 Ala Arg Leu Ala Gly Leu Cys Phe Ala Leu Gly Val Ala Phe Ile Val
 130 135 140
 Trp Met Ser Thr Lys Ala Val Ser Arg Met Thr Ala Ile Val Leu Gly
 145 150 155 160
 Ala Lys Val Ile Thr Phe Phe Leu Thr Phe Gly Ser Leu Leu Gly His
 165 170 175
 Val Thr Pro Ala Thr Leu Phe Asn Val Ala Glu Thr Asn Thr Ser Tyr
 180 185 190
 Thr Pro Tyr Leu Leu Met Thr Leu Pro Phe Cys Leu Ala Ser Phe Gly
 195 200 205
 Tyr His Gly Asn Val Pro Ser Leu Met Lys Tyr Tyr Gly Lys Asp Pro
 210 215 220
 Arg Thr Ile Val Lys Cys Leu Val Tyr Gly Thr Leu Leu Ala Leu Ala
 225 230 235 240
 Leu Tyr Val Ile Trp Leu Leu Gly Thr Met Gly Asn Ile Pro Arg Pro
 245 250 255
 Glu Phe Ile Gly Ile Ala Gln Lys Gly Gly Asn Ile Asp Val Leu Val
 260 265 270
 Gln Ala Leu Gly Gly Val Leu Asn Ser His Ser Leu Asp Leu Leu Leu
 275 280 285
 Val Val Phe Ser Asn Phe Ala Val Ala Ser Ser Phe Leu Gly Val Thr
 290 295 300
 Leu Gly Leu Phe Asp Tyr Leu Ala Asp Leu Phe Gly Phe Asp Asp Ser
 305 310 315 320

Ala Thr Gly Arg Phe Lys Thr Ala Leu Leu Thr Phe Leu Pro Pro Ile
 325 330 335
 Val Gly Gly Leu Leu Trp Pro Asn Gly Phe Leu Tyr Ala Ile Gly Tyr
 340 345 350
 Ala Gly Leu Ala Ala Thr Ile Trp Ala Ala Ile Val Pro Ala Leu Leu
 355 360 365
 Ala Arg Lys Ser Arg Lys Arg Phe Gly Ser Pro Lys Phe Arg Val Trp
 370 375 380
 Gly Gly Xaa Pro Met Ile Ala Leu Ile Leu Val Phe Gly Ile Gly Asn
 385 390 395 400
 Ala Val Val His Val Leu Ser Ser Phe Asn Leu Leu Pro Val Tyr Gln
 405 410 415

<210> 7642

<211> 169

<212> PRT

<213> Enterobacter cloacae

<400> 7642

Thr Met Leu Ile Arg Val Glu Ile Gly Ile Asp Ala Pro Gly Ile Asp
 1 5 10 15
 Ala Leu Leu Arg Arg Ser Phe Ala Gly Asp Ala Glu Ala Gln Leu Val
 20 25 30
 His Asp Leu Arg Glu Asp Gly Leu Ile Thr Leu Gly Leu Val Ala Thr
 35 40 45
 Asp Asp Glu Gly Gln Val Val Gly Tyr Val Ala Phe Ser Pro Val Ile
 50 55 60
 Val Gln Gly Glu Glu Leu Gln Trp Val Gly Met Ala Pro Leu Ala Val
 65 70 75 80
 Asp Glu Asn Tyr Arg Gly Gln Gly Leu Ala Arg Gln Leu Val Tyr Glu
 85 90 95
 Gly Leu Asp Ser Leu Asn Glu Phe Gly Tyr Ala Ala Val Val Val Leu
 100 105 110
 Gly Asp Pro Ala Phe Tyr Glu Arg Leu Gly Phe Glu Pro Ala Ser Arg
 115 120 125
 Tyr Asp Leu Arg Cys His Trp Pro Gly Thr Glu Thr Ser Phe Gln Val
 130 135 140
 His Pro Leu Ala Asp Asp Ala Leu Asp Gly Val Thr Gly Leu Val Glu
 145 150 155 160
 Tyr His Asp His Phe Asn Arg Phe
 165

<210> 7643

<211> 149

<212> PRT

<213> Enterobacter cloacae

<400> 7643

Glu Arg Ala Lys Met Glu Thr Leu Ala Ala Ile Asn Arg Trp Leu Ala
 1 5 10 15
 Lys Gln His Val Val Thr Trp Cys Val Cys Lys Asp Glu Glu Met Trp
 20 25 30
 Cys Ala Asn Ala Phe Tyr Tyr Tyr Asp Pro Glu Arg Val Ala Phe Tyr
 35 40 45
 Val Met Ser Glu Asp Lys Thr Arg His Ala Gln Met Thr Gly Gln Gln
 50 55 60
 Ala Lys Val Ala Gly Thr Val Asn Gly Gln Pro Lys Thr Val Ala Leu
 65 70 75 80
 Ile Arg Gly Val Gln Phe Lys Gly Glu Ile Arg Arg Leu Glu Gly Glu

85 90 95
 Glu Ser Asp Ala Gln Arg Lys Arg Tyr Thr Arg Arg Phe Pro Val Ala
 100 105 110
 Ala Ala Leu Lys Ala Pro Val Trp Glu Ile Arg Leu Asp Glu Leu Lys
 115 120 125
 Phe Thr Asp Asn Thr Leu Gly Phe Gly Lys Lys Leu His Trp Leu Arg
 130 135 140
 Ala Glu Gln Ala
 145

<210> 7644

<211> 246

<212> PRT

<213> Enterobacter cloacae

<400> 7644

His Leu Pro Gly Asn Gly Met Thr Gly Gln Ser Ser Ser Gln Ala Ala
 1 5 10 15
 Thr Pro Val Gln Trp Trp Lys Pro Ala Leu Phe Phe Leu Val Val Ile
 20 25 30
 Ile Gly Leu Trp Tyr Val Lys Trp Gln Pro Tyr Tyr Gly Lys Ala Phe
 35 40 45
 Thr Ala Ala Asp Thr His Ser Ile Gly Lys Ser Ile Leu Ala Gln Ala
 50 55 60
 Asp Ser Ser Pro Leu Arg Ala Ala Trp Asp Tyr Ala Met Val Tyr Phe
 65 70 75 80
 Leu Ala Val Trp Lys Ala Ala Val Leu Gly Val Leu Leu Gly Ser Leu
 85 90 95
 Ile Gln Val Leu Ile Pro Arg Asn Trp Leu Val Lys Thr Leu Gly Gln
 100 105 110
 Pro Arg Leu Gln Gly Thr Leu Leu Gly Thr Ile Phe Ser Leu Pro Gly
 115 120 125
 Met Met Cys Ser Cys Cys Ala Ala Pro Val Ala Ala Gly Met Arg Arg
 130 135 140
 Gln Arg Val Ser Met Gly Gly Ala Leu Ala Phe Trp Met Gly Asn Pro
 145 150 155 160
 Leu Leu Asn Pro Ala Thr Leu Val Phe Met Gly Phe Val Leu Gly Trp
 165 170 175
 His Phe Ala Phe Ile Arg Leu Ala Ala Gly Leu Leu Thr Val Val Leu
 180 185 190
 Val Ala Thr Leu Val Gln His Leu Val Lys Asp Asn Glu Ala Gly Ser
 195 200 205
 Ala Ser Val Glu Leu Asp Val Ser Glu Pro Gln Gly Ser Phe Phe Ala
 210 215 220
 Arg Trp Gly Lys Ala Leu Trp Gln Leu Phe Leu Glu His His Ser Gly
 225 230 235 240
 Leu Tyr Pro Gly Phe
 245

<210> 7645

<211> 121

<212> PRT

<213> Enterobacter cloacae

<400> 7645

Trp Arg Pro Val Phe Pro Phe Ser Leu Ser Leu Met Leu Trp Cys Val
 1 5 10 15
 His Leu Asn Ile Leu Asn Leu Phe Thr Val Cys Trp Phe Leu Tyr Leu
 20 25 30
 Val Arg Thr Ala Asp Asn Ala Leu Tyr Thr Gly Ile Thr Thr Asp Val
 35 40 45

Ala Arg Arg Phe Leu Gln His Gln Thr Gly Lys Gly Ala Lys Ala Leu
 50 55 60
 Arg Gly Lys Gly Glu Leu Gln Leu Ala Phe Ser Ala Ala Val Gly Asp
 65 70 75 80
 Arg Ser Leu Ala Leu Arg Leu Glu Tyr Arg Ile Lys Gln Leu Thr Lys
 85 90 95
 Arg Gln Lys Glu Arg Leu Val Asn Gly Asp Gly Ser Phe Glu Ala Leu
 100 105 110
 Leu Glu Ser Leu Leu Lys Asn Asp
 115 120

<210> 7646

<211> 346

<212> PRT

<213> Enterobacter cloacae

<400> 7646

Ala Arg Trp Gln Arg Cys Gly Val Arg Pro Ser Thr Ala Ala Trp Arg
 1 5 10 15
 Thr Arg Lys Thr Thr Leu Arg Arg Arg His Gly Trp Arg Arg Ser Ala
 20 25 30
 Arg Cys Pro Lys Ala Pro Lys Pro Arg Ser Ala Arg Ile Thr Val Asn
 35 40 45
 Gly Ser Glu Ile Ile Met Lys Tyr Ser Leu Gly Pro Val Leu Tyr Tyr
 50 55 60
 Trp Pro Lys Glu Thr Leu Glu Asp Phe Tyr Gln Gln Ala Ala Asn Ser
 65 70 75 80
 Ser Ala Asp Val Ile Tyr Leu Gly Glu Ala Val Cys Ser Lys Arg Arg
 85 90 95
 Ala Thr Lys Val Gly Asp Trp Leu Asp Met Ala Lys Ser Leu Ala Gly
 100 105 110
 Ser Gly Lys Gln Val Val Leu Ser Thr Leu Ala Leu Val Gln Ala Ser
 115 120 125
 Ser Glu Leu Gly Glu Leu Lys Arg Tyr Val Glu Asn Gly Glu Phe Leu
 130 135 140
 Leu Glu Ala Ser Asp Leu Gly Val Val Asn Met Cys Ala Glu Arg Lys
 145 150 155 160
 Leu Pro Phe Val Ala Gly His Ala Leu Asn Cys Tyr Asn Ala Val Thr
 165 170 175
 Leu Arg Leu Leu Leu Lys Gln Gly Met Thr Arg Trp Cys Met Pro Val
 180 185 190
 Glu Leu Ser Arg Asp Trp Leu Ala Asn Leu Leu Thr Gln Cys Glu Glu
 195 200 205
 Leu Gly Ile Arg Asn Lys Phe Glu Val Glu Val Leu Ser Tyr Gly His
 210 215 220
 Leu Pro Leu Ala Tyr Ser Ala Arg Cys Phe Thr Ala Arg Ser Glu Asp
 225 230 235 240
 Arg Pro Lys Asp Glu Cys Glu Thr Cys Cys Ile Lys Tyr Pro Asn Gly
 245 250 255
 Arg Ser Met Leu Ser Gln Glu Asn Gln Gln Val Phe Val Leu Asn Gly
 260 265 270
 Ile Gln Thr Met Ser Gly Tyr Val Tyr Asn Leu Gly Asn Glu Leu Ala
 275 280 285
 Ser Met His Gly Leu Val Asp Met Val Arg Leu Ser Pro Leu Asp Thr
 290 295 300
 Gly Val Phe Ala Met Leu Asp Ala Phe Arg Ala Asn Glu Asn Gly Ala
 305 310 315 320
 Ala Pro Leu Pro Leu Thr Ala Asn Ser Asp Cys Asn Gly Tyr Trp Arg
 325 330 335
 Arg Leu Ala Gly Leu Glu Leu Gln Ala
 340 345

<210> 7647
 <211> 338
 <212> PRT
 <213> Enterobacter cloacae

<400> 7647
 Ala Val Met Thr Asp Lys Thr Ile Pro Phe Ser Val Leu Asp Leu Ala
 1 5 10 15
 Pro Ile Pro Gln Gly Ser Ser Ala Arg Glu Ala Phe Thr His Ser Leu
 20 25 30
 Asp Leu Ala Gln Leu Ala Glu Lys Arg Gly Tyr His Arg Tyr Trp Leu
 35 40 45
 Ala Glu His His Asn Met Val Gly Ile Ala Ser Ala Ala Thr Ser Val
 50 55 60
 Leu Ile Gly Tyr Leu Ala Ala Asn Thr Thr Thr Leu His Leu Gly Ser
 65 70 75 80
 Gly Gly Val Met Leu Pro Asn His Ala Pro Leu Val Ile Ala Glu Gln
 85 90 95
 Phe Gly Thr Leu Asn Thr Leu Tyr Pro Gly Arg Ile Asp Leu Gly Leu
 100 105 110
 Gly Arg Ala Pro Gly Ser Asp Gln Pro Thr Met Arg Ala Leu Arg Arg
 115 120 125
 His Met Ser Gly Asp Ile Asp Asn Phe Pro Arg Asp Val Ala Glu Leu
 130 135 140
 Val Gly Trp Phe Asp Ala Arg Asp Pro Asn Pro His Val Arg Pro Val
 145 150 155 160
 Pro Gly Tyr Gly Glu Lys Ile Pro Val Trp Leu Leu Gly Ser Ser Leu
 165 170 175
 Tyr Ser Ala Gln Leu Ala Ala Gln Leu Gly Leu Pro Phe Ala Phe Ala
 180 185 190
 Ser His Phe Ala Pro Asp Met Leu His Gln Ala Leu His Leu Tyr Arg
 195 200 205
 Thr His Phe Lys Pro Ser Glu Arg Leu Glu Lys Pro Tyr Ala Met Val
 210 215 220
 Cys Ile Asn Ile Ile Ala Ala Asp Ser Asn Arg Asp Ala Glu Phe Leu
 225 230 235 240
 Phe Thr Ser Met Gln Gln Ala Phe Val Lys Leu Arg Arg Gly Glu Thr
 245 250 255
 Gly Gln Leu Pro Pro Pro Val Glu Asn Met His Gln Leu Trp Ser Ala
 260 265 270
 Ser Glu Gln Tyr Gly Val Gln Gln Ala Leu Ser Met Ser Leu Val Gly
 275 280 285
 Asp Lys Ala Lys Val Arg His Gly Leu Glu Ser Val Leu Arg Glu Thr
 290 295 300
 Gln Ala Asp Glu Ile Met Val Asn Gly Gln Ile Phe Asp His Gln Ala
 305 310 315 320
 Arg Leu His Ser Phe Asp Leu Ala Met Gln Val Lys Glu Glu Leu Val
 325 330 335
 Gly

<210> 7648
 <211> 152
 <212> PRT
 <213> Enterobacter cloacae

<400> 7648
 Thr Gly Met Val Leu Gln Lys Lys Leu Pro Gln Arg Phe Ala Pro Ala
 1 5 10 15
 Ser Lys Glu Thr Ala Leu Arg Leu Ala Asp Val Gln Leu Asn Gly Ser

		20						25					30				
Arg	Ser	Gly	Leu	Val	Val	Phe	His	Gln	Val	Leu	His	Gln	Arg	Ser	Asp		
		35					40					45					
Lys	His	His	Arg	Gln	Gln	Ala	Ser	Arg	Gln	Thr	Asp	Lys	Arg	Glu	Met		
	50					55					60						
Pro	Ala	Glu	Asn	Glu	Ala	His	Lys	His	Gln	Arg	Cys	Arg	Val	Gln	Gln		
65					70					75					80		
Trp	Val	Thr	His	Pro	Glu	Gly	Lys	Arg	Ala	Ala	His	Arg	His	Ala	Leu		
			85					90						95			
Ser	Ala	His	Thr	Arg	Arg	His	Arg	Cys	Gly	Ala	Ala	Gly	Thr	His	His		
		100					105						110				
Ala	Arg	Gln	Gly	Glu	Asn	Arg	Pro	Gln	Gln	Arg	Ala	Leu	Gln	Ala	Arg		
		115				120						125					
Leu	Ser	Gln	Gly	Phe	His	Gln	Pro	Val	Thr	Arg	Asp	Lys	Tyr	Leu	Asn		
	130					135					140						
Gln	Arg	Ala	Gln	Gln	Tyr	Ala											
145						150											

<210> 7649

<211> 180

<212> PRT

<213> Enterobacter cloacae

<400> 7649

Ser	Glu	Asn	Asn	Gly	Gly	Ser	Met	Gly	Lys	Lys	Ile	Ala	Val	Leu	Ile		
1				5				10						15			
Thr	Asp	Glu	Phe	Glu	Asp	Ser	Glu	Phe	Thr	Ser	Pro	Ala	Glu	Ala	Phe		
		20					25					30					
Arg	Lys	Ala	Gly	His	Glu	Val	Val	Thr	Ile	Glu	Lys	Glu	Ala	Gly	Lys		
	35					40					45						
Thr	Val	Lys	Gly	His	Lys	Gly	Glu	Ala	Ser	Val	Thr	Ile	Asp	Glu	Ser		
	50				55						60						
Ile	Asp	Asn	Val	Ser	Pro	Ser	Asp	Phe	Asp	Ala	Leu	Leu	Leu	Pro	Gly		
65				70				75						80			
Gly	His	Ser	Pro	Asp	Ser	Leu	Arg	Gly	Asp	Glu	Arg	Phe	Val	Thr	Phe		
		85					90						95				
Thr	Arg	Asp	Phe	Val	Gly	Thr	Gly	Lys	Pro	Val	Phe	Ala	Ile	Cys	His		
		100					105						110				
Gly	Pro	Gln	Leu	Leu	Ile	Ser	Ala	Glu	Val	Val	Arg	Gly	Arg	Lys	Leu		
		115				120						125					
Thr	Ala	Val	Lys	Ser	Ile	Val	Ile	Asp	Leu	Lys	Asn	Ala	Gly	Ala	Glu		
	130					135					140						
Phe	Tyr	Asp	Gln	Glu	Val	Val	Asn	Asp	Asn	Asp	Gln	Leu	Ile	Thr	Ser		
145					150			155						160			
Arg	Thr	Pro	Asp	Asp	Leu	Pro	Ala	Phe	Asn	Arg	Glu	Ala	Leu	Arg	Leu		
			165					170					175				
Leu	Gly	Ala															

<210> 7650

<211> 375

<212> PRT

<213> Enterobacter cloacae

<400> 7650

Ala	Ala	Gly	Pro	Arg	Lys	Gly	Leu	Pro	Arg	Ser	Gln	Cys	Gly	Ala	Phe		
1				5				10						15			
His	Asn	Thr	Thr	Gly	Gly	Leu	Thr	Tyr	Phe	Asn	Thr	Thr	Pro	Leu	Gly		
		20					25					30					
Arg	Ala	Val	Thr	Gly	Thr	Met	Leu	Val	Ala	Ala	Met	Lys	Glu	Asp	Gly		
		35				40						45					

Val Asn Ile Trp Gly Asp Gly Ser Thr Tyr Lys Gly Asn Asp Ile Glu
 50 55 60
 Arg Phe Tyr Arg Tyr Gly Leu Leu Thr Asn Ala Glu Leu Gln Ile Tyr
 65 70 75 80
 Lys Pro Trp Leu Asp Thr Asp Phe Ile Asp Glu Leu Gly Gly Arg His
 85 90 95
 Glu Met Ser Glu Phe Met Ile Ala Cys Gly Phe Asp Tyr Lys Met Ser
 100 105 110
 Val Glu Lys Ala Tyr Ser Thr Asp Ser Asn Met Leu Gly Ala Thr His
 115 120 125
 Glu Ala Lys Asp Leu Glu Phe Leu Asn Ser Ser Val Lys Ile Val Asn
 130 135 140
 Pro Ile Met Gly Val Lys Phe Trp Asp Glu Asn Val Lys Ile Pro Ala
 145 150 155 160
 Glu Glu Val Thr Val Arg Phe Glu Arg Gly His Pro Val Ala Leu Asn
 165 170 175
 Gly Lys Thr Phe Ser Asp Asp Val Glu Leu Met Leu Glu Ala Asn Arg
 180 185 190
 Ile Gly Gly Arg His Gly Leu Gly Met Ser Asp Gln Ile Glu Asn Arg
 195 200 205
 Ile Ile Glu Ala Lys Ser Arg Gly Ile Tyr Glu Ala Pro Gly Met Ala
 210 215 220
 Leu Leu His Ile Ala Tyr Glu Arg Leu Leu Thr Gly Ile His Asn Glu
 225 230 235 240
 Asp Thr Ile Glu Gln Tyr His Ala His Asp Arg Gln Leu Gly Lys Leu
 245 250 255
 Leu Tyr Gln Gly Arg Trp Phe Asp Pro Gln Ala Leu Met Leu Arg Asp
 260 265 270
 Ala Met Gln Arg Trp Val Ala Ser Ala Ile Thr Gly Glu Val Thr Leu
 275 280 285
 Glu Leu Arg Arg Gly Asn Glu Tyr Ser Ile Leu Asn Thr Val Ser Asp
 290 295 300
 Asn Leu Thr Tyr Lys Ala Glu Arg Leu Thr Met Glu Lys Gly Glu Ser
 305 310 315 320
 Val Phe Ser Pro Asp Asp Arg Ile Gly Gln Leu Thr Met Arg Asn Leu
 325 330 335
 Asp Ile Thr Asp Thr Arg Glu Lys Leu Phe Asn Tyr Val Glu Asn Gly
 340 345 350
 Leu Leu Ser Ala Asn Ser Gly Asn Gly Leu Pro Gln Val Glu Asn Leu
 355 360 365
 Glu His Ser Asp Lys Lys
 370 375

<210> 7651

<211> 333

<212> PRT

<213> Enterobacter cloacae

<400> 7651

Ile Met Glu Leu Leu Cys Pro Ala Gly Asn Leu Pro Ala Leu Lys Ala
 1 5 10 15
 Ala Ile Glu Asn Gly Ala Asp Ala Val Tyr Ile Gly Leu Lys Asp Asp
 20 25 30
 Thr Asn Ala Arg His Phe Ala Gly Leu Asn Phe Thr Glu Lys Lys Leu
 35 40 45
 Gln Glu Ala Val Asn Phe Val His Gln His Arg Arg Lys Leu His Ile
 50 55 60
 Ala Ile Asn Thr Phe Ala His Pro Asp Gly Tyr Ala Arg Trp Gln Arg
 65 70 75 80
 Ala Val Asp Met Ala Ala Gln Leu Gly Ala Asp Ala Leu Ile Leu Ala
 85 90 95

Asp Leu Ala Met Leu Glu Tyr Ala Ala Glu Arg Tyr Pro His Ile Glu
 100 105 110
 Arg His Val Ser Val Gln Ala Ser Ala Thr Asn Glu Glu Ala Val Arg
 115 120 125
 Phe Tyr His Arg His Phe Asp Val Ala Arg Val Val Leu Pro Arg Val
 130 135 140
 Leu Ser Ile His Gln Val Lys Gln Leu Ala Arg Val Thr Pro Val Pro
 145 150 155 160
 Leu Glu Val Phe Ala Phe Gly Ser Leu Cys Ile Met Ala Glu Gly Arg
 165 170 175
 Cys Tyr Leu Ser Ser Tyr Leu Thr Gly Glu Ser Pro Asn Thr Val Gly
 180 185 190
 Ala Cys Ser Pro Ala Arg Phe Val Arg Trp Gln Gln Thr Pro Gln Gly
 195 200 205
 Leu Glu Ser Arg Leu Asn Asp Val Leu Ile Asp Arg Tyr Gln Asp Gly
 210 215 220
 Glu Asn Ala Gly Tyr Pro Thr Leu Cys Lys Gly Arg Tyr Leu Val Asp
 225 230 235 240
 Gly Glu Arg Tyr His Ala Leu Glu Glu Pro Thr Ser Leu Asn Thr Leu
 245 250 255
 Glu Leu Leu Pro Glu Leu Leu Ala Ala Asn Ile Ala Ser Val Lys Ile
 260 265 270
 Glu Gly Arg Gln Arg Ser Pro Ala Tyr Val Ser Gln Val Ala Lys Val
 275 280 285
 Trp Arg Gln Ala Ile Asp Arg Cys Met Ala Asp Pro Gln Asn Tyr Ala
 290 295 300
 Pro Gln Ala Ala Trp Met Glu Thr Leu Gly Ala Met Ser Glu Gly Thr
 305 310 315 320
 Gln Thr Thr Leu Gly Ala Tyr His Arg Lys Trp Gln
 325 330

<210> 7652

<211> 107

<212> PRT

<213> Enterobacter cloacae

<400> 7652

Ser Val Asn Gln Ala Gly Phe Tyr Tyr Met Thr Thr Ile Leu Lys His
 1 5 10 15
 Leu Pro Val Gly Gln Arg Ile Gly Ile Ala Phe Ser Gly Gly Leu Asp
 20 25 30
 Thr Ser Ala Ala Leu Leu Trp Met Arg Gln Lys Gly Ala Val Pro Tyr
 35 40 45
 Ala Tyr Thr Ala Asn Leu Gly Gln Pro Asp Glu Glu Asp Tyr Asp Ala
 50 55 60
 Ile Pro Arg Arg Ala Met Glu Tyr Gly Ala Glu Asn Ala Arg Leu Ile
 65 70 75 80
 Asp Cys Arg Lys Gln Leu Val Pro Gly Arg Asp Cys Arg Asp Pro Ser
 85 90 95
 Ala Val Leu Ser Ile Thr Leu Pro Ala Ala
 100 105

<210> 7653

<211> 158

<212> PRT

<213> Enterobacter cloacae

<400> 7653

Thr Val Ile Ala Met Ala Ala Arg Lys Ser Ile Ile Phe Ile Cys Ile
 1 5 10 15
 Cys Trp Val Asp Val His Trp Asp Arg Cys Trp His Ile Lys Val Phe

```

      20      25      30
Asn Met Leu Thr Gly Arg Ile Ala Ala Leu Ile Val Thr Leu Val Met
      35      40      45
Val Gly Cys Ser Ala Arg Pro Ala Ile Pro Val Ser Glu Glu Gln Thr
      50      55      60
Leu Val Met Glu Ser Ser Val Leu Ala Ala Gly Ile Thr Ala Glu Lys
65      70      75      80
Pro Ser Leu Thr Ile Ser Glu Ile Gln Ser Ser Ala Ser Ser Thr Leu
      85      90      95
Tyr Asn Glu Arg Gln Glu Pro Val Thr Val His Tyr Arg Phe Tyr Trp
      100      105      110
Tyr Asp Val Arg Gly Leu Glu Met His Pro Leu Glu Ala Pro Arg Ser
      115      120      125
Val Thr Ile Pro Ala Arg Ser Ser Val Thr Leu Tyr Gly Ser Ala Ser
      130      135      140
Tyr Leu Gly Ala His Lys Val Arg Leu Tyr Leu Tyr Leu
145      150      155

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<210> 7654

<211> 90

<212> PRT

<213> Enterobacter cloacae

<400> 7654

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Arg Tyr Lys Ile Met Lys Asn Val Lys Thr Leu Ile Ala Ala Ala Val
1      5      10      15
Leu Ser Ser Leu Ser Phe Ala Ser Phe Ala Ala Val Glu Val Gln Ser
      20      25      30
Thr Pro Ala Asp Gln Gln Lys Val Gly Thr Ile Ser Ala Thr Ala Gly
      35      40      45
Thr Asn Leu Gly Ser Leu Glu Asp Gln Leu Ala Gln Lys Ala Asp Glu
      50      55      60
Met Gly Ala Lys Ser Phe Arg Ile Thr Ser Val Thr Gly Pro Asn Thr
65      70      75      80
Leu His Gly Thr Ala Val Ile Tyr Lys
      85      90

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<210> 7655

<211> 423

<212> PRT

<213> Enterobacter cloacae

<400> 7655

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Thr Asp Ala Asp Gly Ser Gly Val Met Ala Ser Pro Leu Ser Leu Leu
1      5      10      15
Ile Gly Leu Arg Phe Ser Arg Gly Arg Arg Ser Gly Met Val Ser
      20      25      30
Leu Ile Ser Val Ile Ser Thr Ile Gly Ile Ala Leu Gly Val Ala Val
      35      40      45
Leu Ile Val Gly Leu Ser Ala Met Asn Gly Phe Glu Arg Glu Leu Asn
      50      55      60
Asn Arg Ile Leu Ala Val Val Pro His Gly Glu Ile Glu Pro Val Asn
65      70      75      80
Gln Pro Trp Ser Asn Trp Gln Asp Ser Leu Asn Lys Val Glu Lys Val
      85      90      95
Pro Gly Ile Ala Ala Ala Ala Pro Tyr Ile Asn Phe Thr Gly Leu Val
      100      105      110
Glu Ser Gly Val Asn Leu Arg Ala Ile Gln Val Lys Gly Val Asn Pro
      115      120      125
Arg Gln Glu Glu Arg Leu Ser Ala Leu Pro Arg Tyr Val Gln Asn Gly
130      135      140

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Ala Trp Ala Asn Phe Lys Ala Gly Glu Gln Gln Ile Ile Met Gly Lys
 145 150 155 160
 Gly Val Ala Asp Ala Leu Lys Val Lys Gln Gly Asp Trp Val Ser Ile
 165 170 175
 Met Ile Pro Asn Ala Ser Ala Asp His Lys Leu Gln Gln Pro Lys Arg
 180 185 190
 Val Arg Leu His Val Thr Gly Ile Leu Gln Leu Ser Gly Gln Leu Asp
 195 200 205
 His Ser Phe Ala Met Val Pro Leu Glu Asp Ala Arg Gln Tyr Leu Asp
 210 215 220
 Met Ser Asp Ser Val Thr Gly Ile Ala Ile Lys Val Asn Asp Val Phe
 225 230 235 240
 Asn Ala Asn Lys Leu Val Arg Asp Ala Gly Ser Val Thr Asn Asn Tyr
 245 250 255
 Val Tyr Ile Lys Ser Trp Ile Gly Thr Tyr Gly Tyr Met Tyr Arg Asp
 260 265 270
 Ile Gln Met Ile Arg Ala Ile Met Tyr Leu Ala Met Val Leu Val Ile
 275 280 285
 Gly Val Ala Cys Phe Asn Ile Val Ser Thr Leu Val Met Ala Val Lys
 290 295 300
 Asp Lys Ser Gly Asp Ile Ala Val Leu Arg Thr Leu Gly Ala Lys Asp
 305 310 315 320
 Gly Leu Ile Arg Ala Ile Phe Val Trp Tyr Gly Leu Leu Ala Gly Leu
 325 330 335
 Phe Gly Ser Leu Cys Gly Val Ala Ile Gly Val Val Val Ser Leu Gln
 340 345 350
 Leu Thr Pro Ile Ile Asn Gly Ile Glu Ala Leu Ile Gly His Gln Phe
 355 360 365
 Leu Ser Gly Asp Ile Tyr Phe Ile Asp Phe Leu Pro Ser Glu Leu His
 370 375 380
 Trp Leu Asp Val Ile Tyr Val Leu Val Thr Ala Leu Leu Leu Ser Leu
 385 390 395 400
 Leu Ala Ser Trp Tyr Pro Ala Arg Arg Ala Ser Arg Ile Asp Pro Ala
 405 410 415
 Arg Val Leu Ser Gly Gln
 420

<210> 7656

<211> 322

<212> PRT

<213> Enterobacter cloacae

<400> 7656

Phe Arg His Gly Leu Ala Val Phe Trp Pro Leu Asn Gln Thr Glu Glu
 1 5 10 15
 Cys Ile Met Tyr Tyr Gly Phe Asp Ile Gly Gly Thr Lys Ile Ala Leu
 20 25 30
 Gly Val Phe Asp Lys Asp Leu Lys Leu Gln Trp Glu Thr Arg Val Pro
 35 40 45
 Thr Pro Arg Glu Ser Tyr Asp Glu Phe Leu Thr Ala Ile Ala Ala Leu
 50 55 60
 Val Ala Gln Ala Asp Glu Arg Phe Gly Val Lys Gly Ser Val Gly Ile
 65 70 75 80
 Gly Ile Pro Gly Met Pro Glu Thr Asp Asp Gly Thr Leu Tyr Ala Ala
 85 90 95
 Asn Val Pro Ala Ala Ser Gly Lys Pro Leu Arg Ala Asp Leu Ser Ala
 100 105 110
 Leu Leu Glu Arg Asp Val Arg Leu Asp Asn Asp Ala Asn Cys Phe Ala
 115 120 125
 Leu Ser Glu Ala Trp Asp Asp Glu Phe Arg Arg Phe Pro Leu Val Met
 130 135 140

Gly Leu Ile Leu Gly Thr Gly Val Gly Gly Gly Ile Val Ile Asn Gly
 145 150 155 160
 Lys Pro Ile Thr Gly Arg Ser Tyr Ile Thr Gly Glu Phe Gly His Ile
 165 170 175
 Arg Leu Pro Val Asp Ala Leu Glu Val Val Gly Arg Asp Phe Pro Leu
 180 185 190
 Thr Arg Cys Gly Cys Gly Gln His Gly Cys Ile Glu Asn Tyr Leu Ser
 195 200 205
 Gly Arg Gly Phe Ala Trp Leu Tyr Glu His Phe Tyr His Gln Lys Leu
 210 215 220
 Glu Ala Pro Gln Ile Ile Thr Leu Trp Glu Gln Gly Asp Ala Gln Ala
 225 230 235 240
 Arg Glu His Val Glu Arg Tyr Leu Asp Leu Leu Ala Val Cys Leu Gly
 245 250 255
 Asn Ile Leu Thr Ile Val Asp Pro Asp Leu Leu Val Ile Gly Gly Gly
 260 265 270
 Leu Ser Asn Phe Thr Ala Ile Thr Glu Gln Leu Ser Gly Arg Leu Thr
 275 280 285
 Arg His Leu Leu Pro Val Ala Arg Val Pro Arg Ile Glu Arg Ala Arg
 290 295 300
 His Gly Asp Ala Gly Gly Met Arg Gly Ala Ala Phe Leu His Leu Thr
 305 310 315 320
 Asp

<210> 7657

<211> 217

<212> PRT

<213> Enterobacter cloacae

<400> 7657

Thr Leu Ile Lys Thr Met Ser Arg Tyr Ala Leu Leu Ser Ala Phe Ala
 1 5 10 15
 Leu Phe Leu Ala Gly Cys Val Thr Arg Thr Glu Glu Pro Ala Pro Val
 20 25 30
 Asp Gln Ala Lys Pro Gly Thr Glu Gln Pro Thr Thr Pro Ala Gln Pro
 35 40 45
 Val Pro Thr Val Pro Ser Val Pro Thr Ile Pro Ala Gln Pro Gly Pro
 50 55 60
 Ile Glu His Pro Asp Asp Thr Ala Gln Pro Ala Pro Arg Val Arg His
 65 70 75 80
 Tyr Asp Trp Asn Gly Ala Met Gln Pro Met Val Gly Lys Met Leu Gln
 85 90 95
 Ala Gln Gly Val Thr Pro Gly Ser Val Leu Leu Val Asp Ser Val Asn
 100 105 110
 Asn Arg Thr Asn Gly Ser Leu Asn Ala Gly Glu Ala Thr Glu Thr Leu
 115 120 125
 Arg Asn Ala Leu Ala Asn Asn Gly Lys Phe Thr Leu Val Ser Ala Gln
 130 135 140
 Gln Leu Ala Val Ala Lys Gln Gln Leu Gly Leu Ser Pro Gln Asp Ser
 145 150 155 160
 Leu Gly Ser Arg Ser Lys Ala Ile Gly Ile Ala Arg Asn Val Gly Ala
 165 170 175
 Gln Tyr Val Leu Tyr Ser Asn Ala Thr Gly Asn Val Asn Thr Pro Ser
 180 185 190
 Leu Gln Met Gln Leu Met Leu Val Gln Thr Gly Glu Ile Ile Trp Ser
 195 200 205
 Gly Lys Gly Ala Val Thr Gln Gln
 210 215

<210> 7658

<211> 356

<212> PRT

<213> Enterobacter cloacae

<400> 7658

Cys Leu Ala Ser Val Thr Asn Glu Arg Ile Arg Glu Val Gly Val Gly
 1 5 10 15
 Pro Val Met Leu Asp Val Glu Gly Phe Glu Leu Asp Ala Glu Glu Arg
 20 25 30
 Glu Ile Leu Ala His Pro Leu Val Gly Gly Leu Ile Leu Phe Thr Arg
 35 40 45
 Asn Tyr His Asp Pro Glu Gln Leu Arg Glu Leu Val Arg Gln Ile Arg
 50 55 60
 Ala Ala Ser Arg Asn His Leu Val Val Ala Val Asp Gln Glu Gly Gly
 65 70 75 80
 Arg Val Gln Arg Phe Arg Glu Gly Phe Thr Arg Leu Pro Ala Ala Gln
 85 90 95
 Ser Phe Ala Ala Leu Leu Gly Ile Glu Glu Gly Gly Gln Leu Ala Gln
 100 105 110
 Asp Ala Gly Trp Leu Met Ala Ser Glu Met Ile Ala Met Asp Ile Asp
 115 120 125
 Ile Ser Phe Ala Pro Val Leu Asp Val Gly His Ile Ser Ala Ala Ile
 130 135 140
 Gly Glu Arg Ser Tyr His Asp Asp Pro Arg Ile Ala Leu Ala Met Ala
 145 150 155 160
 Thr Arg Phe Ile Asp Gly Met His Ala Ala Gly Met Lys Thr Thr Gly
 165 170 175
 Lys His Phe Pro Gly His Gly Ala Val Thr Ala Asp Ser His Lys Glu
 180 185 190
 Thr Pro Arg Asp Pro Arg Pro Glu Ala Asp Ile Arg Ala Lys Asp Met
 195 200 205
 Ser Val Phe Arg Ser Leu Ile Ala Asp Asn Lys Leu Asp Ala Ile Met
 210 215 220
 Pro Ala His Val Ile Tyr Ser Glu Val Asp Pro Arg Pro Ala Ser Gly
 225 230 235 240
 Ser Pro His Trp Leu Lys Thr Val Leu Arg Gln Glu Leu Gly Phe Asn
 245 250 255
 Gly Val Ile Phe Ser Asp Asp Leu Ser Met Glu Gly Ala Ala Ile Met
 260 265 270
 Gly Ser Tyr Ala Glu Arg Gly Gln Ala Ser Leu Asp Ala Gly Cys Asp
 275 280 285
 Met Ile Leu Val Cys Asn Asn Arg Lys Gly Ala Val Ser Val Leu Asp
 290 295 300
 Asn Leu Ser Pro Ile Asn Ala Glu Arg Val Thr Gln Leu Tyr His Lys
 305 310 315 320
 Gly Ser Phe Ser Arg Gln Glu Leu Met Asp Ser Ala Arg Trp Lys Thr
 325 330 335
 Val Asn Ala Arg Leu Glu Ala Leu Asn Glu Arg Trp Gln Ala His Lys
 340 345 350
 Ala Ala Leu
 355

<210> 7659

<211> 440

<212> PRT

<213> Enterobacter cloacae

<400> 7659

Phe Glu Gly Val Thr Leu Thr Thr Pro Leu Lys Lys Ile Val Ile Val
 1 5 10 15
 Gly Gly Gly Ala Gly Gly Leu Glu Leu Ala Thr Gln Leu Gly Lys Lys

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<210> 7660
<211> 648
<212> PRT
<213> Enterobacter cloacae

<220>
<221>UNSURE
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<222>(355)

<400> 7660

Arg Ile Arg Leu Tyr Thr Arg Gly Ser Ala Ile Ser Lys Gln Thr Asp
 1 5 10 15
 Phe Met Tyr Gln Pro Val Ala Leu Phe Ile Gly Leu Arg Tyr Met Arg
 20 25 30
 Gly Arg Ala Ala Asp Arg Phe Gly Arg Phe Val Ser Trp Leu Ser Thr
 35 40 45
 Ile Gly Ile Thr Leu Gly Val Met Ala Leu Val Thr Val Leu Ser Val
 50 55 60
 Met Asn Gly Phe Glu Arg Glu Leu Gln Asn Asn Ile Leu Gly Leu Met
 65 70 75 80
 Pro Gln Ala Val Leu Ser Ser Thr Gln Gly Ser Val Asn Pro Gln Gln
 85 90 95
 Leu Pro Glu Ser Ala Val Lys Leu Gln Gly Val Thr Arg Val Ala Pro
 100 105 110
 Leu Thr Thr Gly Asp Val Val Leu Gln Ser Ala Arg Ser Val Ala Val
 115 120 125
 Gly Val Met Leu Gly Ile Asp Pro Ala Gln Lys Asp Pro Leu Thr Pro
 130 135 140
 Phe Leu Val Asn Val Lys Gln Thr Asp Leu Glu Ala Gly Lys Tyr Asn
 145 150 155 160
 Val Ile Leu Gly Glu Gln Leu Ala Gly Gln Leu Gly Val Asn Arg Gly
 165 170 175
 Asp Gln Leu Arg Val Met Val Pro Ser Ala Ser Gln Phe Thr Pro Met
 180 185 190
 Gly Arg Leu Pro Ser Gln Arg Leu Phe Asn Val Ile Gly Thr Phe Ala
 195 200 205
 Ala Asn Ser Glu Val Asp Gly Tyr Gln Met Leu Val Asn Ile Gln Asp
 210 215 220
 Ala Ser Arg Leu Met Arg Tyr Pro Ala Gly Asn Ile Thr Gly Trp Arg
 225 230 235 240
 Leu Trp Leu Asp Ala Pro Leu Lys Val Asp Thr Leu Ser Gln Gln Thr
 245 250 255
 Leu Pro Glu Gly Thr Lys Trp Gln Asp Trp Arg Asp Arg Lys Gly Glu
 260 265 270
 Leu Phe Gln Ala Val Arg Met Glu Lys Asn Met Met Gly Leu Leu Leu
 275 280 285
 Ser Leu Ile Val Ala Val Ala Ala Phe Asn Ile Ile Thr Ser Leu Gly
 290 295 300
 Leu Met Val Met Glu Lys Gln Gly Glu Val Ala Ile Leu Gln Thr Gln
 305 310 315 320
 Gly Leu Thr Pro Arg Gln Ile Met Ala Val Phe Met Val His Gly Ala
 325 330 335
 Ser Ala Gly Ile Gly Ala Leu Leu Gly Ala Ala Leu Gly Ala Leu
 340 345 350
 Leu Ala Xaa Gln Leu Asn Asn Leu Met Pro Ile Ile Arg Ala Leu Leu
 355 360 365
 Asp Gly Ala Ala Leu Pro Val Ala Ile Glu Pro Leu Lys Trp Ser Val
 370 375 380
 Leu Arg Trp Pro Arg Trp Pro Met Arg Cys Leu Leu Arg Phe Ile Leu
 385 390 395 400
 Pro Gly Gly Leu Pro Leu Asn Pro Leu Arg Leu Tyr Val Met Asn
 405 410 415
 Lys Ile Leu Leu Gln Cys Asp Asn Leu Ser Lys Arg Tyr Gln Glu Gly
 420 425 430
 Thr Val Gln Thr Asp Val Leu His Asn Val Ser Phe Ser Val Gly Glu
 435 440 445
 Gly Glu Met Met Ala Ile Val Gly Ser Ser Gly Ser Gly Lys Ser Thr
 450 455 460

Leu Leu His Leu Leu Gly Gly Leu Asp Thr Pro Thr Glu Gly Asp Val
 465 470 475 480
 Ile Phe Ser Gly Gln Pro Leu Ser Lys Met Ser Ser Thr Ala Lys Ala
 485 490 495
 Glu Leu Arg Asn Arg Glu Leu Gly Phe Ile Tyr Gln Phe His His Leu
 500 505 510
 Leu Pro Asp Phe Thr Ala Leu Glu Asn Val Ala Met Pro Leu Leu Ile
 515 520 525
 Gly Lys Lys Lys Pro Ala Glu Ile Asn Ala Arg Ala Ser Asp Met Leu
 530 535 540
 Lys Ala Val Gly Leu Gly His Arg Gly Asn His Arg Pro Ser Glu Leu
 545 550 555 560
 Ser Gly Gly Glu Arg Gln Arg Val Ala Ile Ala Arg Ala Leu Val Asn
 565 570 575
 Asn Pro Arg Leu Val Leu Ala Asp Glu Pro Thr Gly Asn Leu Asp Ala
 580 585 590
 Arg Asn Ala Asp Ser Ile Phe Gln Leu Leu Gly Glu Leu Asn Ala Ala
 595 600 605
 Gln Gly Thr Ala Phe Leu Val Thr His Asp Leu Gln Leu Ala Lys
 610 615 620
 Arg Met Gly Arg Gln Leu Glu Met Arg Asp Gly Arg Leu Asn Ala Glu
 625 630 635 640
 Leu Thr Leu Met Gly Ala Glu
 645

<210> 7661

<211> 124

<212> PRT

<213> Enterobacter cloacae

<400> 7661

Lys Glu Lys Val Met Ala Glu Glu Thr Ile Phe Ser Lys Ile Ile Arg
 1 5 10 15
 Arg Glu Ile Pro Ser Asp Ile Val Tyr Gln Asp Glu Leu Val Thr Ala
 20 25 30
 Phe Arg Asp Ile Ser Pro Gln Ala Pro Thr His Ile Leu Ile Ile Pro
 35 40 45
 Asn Ile Leu Ile Pro Thr Val Asn Asp Val Lys Thr Glu His Glu Val
 50 55 60
 Ala Leu Gly Arg Met Leu Thr Val Ala Ala Lys Ile Ala Glu Gln Glu
 65 70 75 80
 Gly Ile Ala Glu Asp Gly Tyr Arg Leu Ile Met Asn Cys Asn Arg His
 85 90 95
 Gly Gly Gln Glu Val Tyr His Ile His Met His Leu Leu Gly Gly Arg
 100 105 110
 Pro Leu Gly Pro Met Leu Ala His Lys Gly Leu
 115 120

<210> 7662

<211> 288

<212> PRT

<213> Enterobacter cloacae

<400> 7662

Cys Trp Phe Arg Pro Ala Lys Leu Ser Gly Gln Val Lys Val Pro Leu
 1 5 10 15
 Arg Asn Asn Lys Arg Thr Arg His Asp Val Leu Thr Arg Tyr Phe Pro
 20 25 30
 Gln Tyr His Val Ile Ala Pro Gln Ala Pro Ala Gly Leu Gly Gly Ala
 35 40 45
 Ser Cys Ile Ile Glu His Gly Asp His Arg Leu Val Leu Arg Gln His

50	55	60
His Asp Ala Ala Ala	Pro Ala Ser His Phe Arg Arg Gln Phe Arg Ala	
65	70	75
Leu Lys Arg Leu Pro	Ala Asp Leu Ala Pro Gln Pro His Leu Phe Ile	80
	85	90
Arg Asp Trp Met Ala	Val Ala Phe Ile Ala Gly Glu Ile Lys Ser Glu	95
	100	105
Leu Pro Asp Thr Pro	Ala Leu Thr Ala Met Leu Tyr His Leu His Arg	110
	115	120
Gln Pro Arg Leu Gly	Trp Arg Val Thr Leu Leu Pro Leu Leu Asp His	125
	130	135
Tyr Trp Gln Gln Ala	Ala Pro Gly Arg Arg Thr Pro Tyr Trp Leu Ala	140
145	150	155
Gln Leu Lys Arg Leu	Arg Lys Ala Gly Glu Pro Gln Ala Leu Arg Leu	160
	165	170
Ala Pro Leu His Met	Asp Val His Ala Gly Asn Ile Val His Thr Thr	175
	180	185
Ala Gly Glu Lys Leu	Ile Asp Trp Glu Tyr Ala Gly Asp Gly Asp Val	190
	195	200
Ala Leu Glu Leu Ala	Ala Val Trp Met Pro Asp Glu Ala Ser Arg Lys	205
	210	215
Gln Leu Ile Thr Ala	Tyr Ala Arg Asn Ala Asn Ile Asn Ala Leu Thr	220
225	230	235
Leu Ala Arg Gln Val	Ala Arg Trp Arg Pro Trp Val Leu Met Leu Met	240
	245	250
Ala Gly Trp Phe Glu	Met Arg Leu Gln Gln Thr Gly Asp Lys Gln Phe	255
	260	265
Ile Ala Leu Ala Asn	Asp Ala Trp Arg Gln Leu Gln Thr Lys Gly	270
	275	280
		285

<210> 7663

<211> 185

<212> PRT

<213> Enterobacter cloacae

<400> 7663

Arg Gly Glu Thr Met	Ile Ile Tyr Leu His Gly Phe Asp Ser Asn Ser
1	5 10 15
Pro Gly Asn His Glu	Lys Val Leu Gln Leu Gln Phe Ile Asp Pro Asp
	20 25 30
Val Arg Leu Ile Ser	Tyr Ser Thr Arg His Pro Lys His Asp Met Gln
	35 40 45
His Leu Leu Lys Glu	Val Asp Lys Met Leu Gln Leu Asn Ile Asp Asp
	50 55 60
Arg Pro Leu Ile Cys	Gly Val Gly Leu Gly Tyr Trp Ala Glu Arg
65	70 75 80
Ile Gly Phe Leu Cys	Asp Ile Arg Gln Val Ile Phe Asn Pro Asn Leu
	85 90 95
Phe Pro Asn Glu Asn	Met Glu Gly Lys Ile Asp Arg Pro Glu Glu Tyr
	100 105 110
Ala Asp Ile Ala Thr	Lys Cys Val Ser Asn Phe Arg Glu Lys Asn Arg
	115 120 125
Asp Arg Cys Leu Val	Ile Leu Ser Arg Asn Asp Glu Ala Leu Asn Ser
	130 135 140
Ser Arg Ala Ala Glu	Leu Leu His His Tyr Tyr Glu Ile Val Trp Asp
145	150 155 160
Glu Glu Gln Thr His	Lys Phe Lys Asn Ile Ser Pro His Leu Gln Arg
	165 170 175
Ile Lys Ala Phe Lys	Thr Leu Gly
	180 185

<210> 7664
 <211> 204
 <212> PRT
 <213> Enterobacter cloacae

<400> 7664
 Ser Phe Ile Leu Leu Ala Lys Arg Leu Leu Arg Cys Lys Ile Ala Thr
 1 5 10 15
 Asn Cys Asn Lys Gly Gly Ser Pro Val Asn Lys Ser Met Leu Ala Gly
 20 25 30
 Ile Gly Ile Gly Val Ala Ala Ala Leu Gly Val Ala Val Ala Ser
 35 40 45
 Leu Asn Val Leu Asp Arg Gly Pro Gln Tyr Ala Gln Val Val Ser Ala
 50 55 60
 Thr Pro Ile Lys Glu Thr Val Lys Thr Pro Arg Gln Glu Cys Arg Asn
 65 70 75 80
 Val Ser Val Thr His Arg Arg Pro Val Gln Asp Glu Asn Arg Ile Ala
 85 90 95
 Gly Ser Val Leu Gly Ala Val Ala Gly Gly Val Ile Gly His Gln Phe
 100 105 110
 Gly Gly Gly Arg Gly Lys Asp Val Ala Thr Val Val Gly Ala Leu Gly
 115 120 125
 Gly Gly Tyr Ala Gly Asn Gln Val Gln Gly Ala Met Gln Glu Asn Asp
 130 135 140
 Thr Tyr Thr Thr Thr Gln Gln Arg Cys Lys Thr Val Tyr Asp Lys Ser
 145 150 155 160
 Glu Lys Met Leu Gly Tyr Asp Val Thr Tyr Lys Ile Gly Asp Gln Gln
 165 170 175
 Gly Lys Ile Arg Met Asp Lys Asp Pro Gly Thr Gln Ile Pro Leu Asp
 180 185 190
 Ser Asn Gly Gln Leu Ile Leu Asn Asn Lys Val
 195 200

<210> 7665
 <211> 300
 <212> PRT
 <213> Enterobacter cloacae

<400> 7665
 Ala Cys Ala Thr Arg Gly Arg Arg Arg His Ala Arg Ser Arg Ile Pro
 1 5 10 15
 Ser Ser His Arg Leu Val Tyr Glu Val Ile Met Leu Ser Arg Arg Gln
 20 25 30
 Gly Arg Leu Ser Arg Phe Arg Lys Asn Lys Arg Arg Leu Arg Glu Arg
 35 40 45
 Leu Arg Gln Arg Ile Phe Phe Arg Asp Arg Met Met Pro Glu Ala Met
 50 55 60
 Asp Lys Pro Arg Val Val Val Leu Thr Gly Ala Gly Ile Ser Ala Glu
 65 70 75 80
 Ser Gly Ile Gln Thr Phe Arg Ala Ala Asp Gly Leu Trp Glu Glu His
 85 90 95
 Arg Val Glu Asp Val Ala Thr Pro Glu Gly Phe Ala Arg Asp Pro Ala
 100 105 110
 Leu Val Gln Ala Phe Tyr Asn Ala Arg Arg Arg Gln Leu Gln Gln Pro
 115 120 125
 Glu Ile Ala Pro Asn Ala Ala His Leu Ala Leu Ala Lys Leu Glu Glu
 130 135 140
 Ala Leu Gly Asp Arg Phe Leu Leu Val Thr Gln Asn Ile Asp Asn Leu
 145 150 155 160
 His Glu Arg Ala Gly Asn His Asn Ile Ile His Met His Gly Glu Leu
 165 170 175

Leu Lys Val Arg Cys Ala Trp Ser Gly Gln Val Leu Glu Trp Lys Glu
 180 185 190
 Asp Val Leu Asp Glu Asp Arg Cys His Cys Cys Gln Phe Pro Ser Arg
 195 200 205
 Leu Arg Pro His Val Val Trp Phe Gly Glu Met Pro Leu Gly Met Asp
 210 215 220
 Glu Ile Tyr Ser Ala Leu Ala Met Ala Asp Val Phe Ile Ala Ile Gly
 225 230 235 240
 Thr Ser Gly His Val Tyr Pro Ala Ala Gly Phe Val His Glu Ala Arg
 245 250 255
 Leu Gln Gly Ala His Thr Val Glu Leu Asn Leu Glu Pro Ser Gln Val
 260 265 270
 Gly Ser Glu Phe Glu Glu Lys His Tyr Gly Leu Ala Ser Glu Val Val
 275 280 285
 Pro Ala Phe Val Asp Lys Phe Leu Lys Gly Leu
 290 295 300

<210> 7666

<211> 93

<212> PRT

<213> Enterobacter cloacae

<400> 7666

Arg Asn Ile Cys Val Leu Leu Leu Asn Asp Asn Val Val Thr Lys Ser
 1 5 10 15
 Glu Gly Asp Cys Met Asp Lys Leu Leu Glu Arg Phe Leu His Tyr Val
 20 25 30
 Ser Leu Asp Thr Gln Ser Lys Pro Gly Val Arg Gln Val Pro Ser Thr
 35 40 45
 Glu Gly Gln Trp Lys Leu Leu Asn Leu Leu Lys Glu Gln Leu Glu Ala
 50 55 60
 Met Gly Leu Val Asp Val Thr Leu Ser Glu Lys Ala Thr Gly Leu His
 65 70 75 80
 Ala Arg Thr Gly Arg Ile Arg Ala Tyr Val Cys Ala Pro
 85 90

<210> 7667

<211> 353

<212> PRT

<213> Enterobacter cloacae

<400> 7667

Asn Lys Ile Ser Gly Asp Thr Glu Met Lys Lys Met Leu Ala Ala Ala
 1 5 10 15
 Ala Leu Val Leu Gly Met Gly Ala Ala His Ala Asp Asp Ser Lys Thr
 20 25 30
 Leu Tyr Phe Tyr Asn Trp Thr Glu Tyr Val Pro Pro Gly Leu Leu Glu
 35 40 45
 Gln Phe Thr Lys Glu Thr Gly Ile Lys Val Ile Tyr Ser Thr Tyr Glu
 50 55 60
 Ser Asn Glu Thr Met Tyr Ala Lys Leu Lys Thr Tyr Lys Asp Gly Ala
 65 70 75 80
 Tyr Asp Leu Val Val Pro Ser Thr Tyr Phe Val Asp Lys Met Arg Lys
 85 90 95
 Glu Gly Met Ile Gln Lys Ile Asp Lys Thr Lys Leu Thr Asn Phe Ser
 100 105 110
 Asn Leu Asp Pro Glu Met Leu Asn Lys Pro Phe Asp Pro Asn Asn Asp
 115 120 125
 Tyr Ser Ile Pro Tyr Ile Trp Gly Ala Thr Ala Ile Gly Ile Asn Ser
 130 135 140
 Asp Ala Ile Asp Pro Lys Thr Val Ser Ser Trp Ala Asp Leu Trp Lys

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145          150          155          160
Pro Glu Tyr Lys Ser Ser Leu Leu Leu Thr Asp Asp Ala Arg Glu Val
165          170          175
Phe Gln Val Ala Leu Arg Lys Leu Gly Tyr Ser Gly Asn Thr Thr Asp
180          185          190
Pro Lys Glu Ile Glu Ala Ala Tyr Asn Glu Leu Lys Lys Leu Met Pro
195          200          205
Asn Val Ala Ala Phe Asn Ser Asp Asn Pro Ala Asn Pro Tyr Met Glu
210          215          220
Gly Glu Val Asn Leu Gly Met Val Trp Asn Gly Ser Ala Phe Val Ala
225          230          235          240
Arg Gln Ala Gly Thr Pro Leu Glu Val Val Trp Pro Lys Glu Gly Gly
245          250          255
Ile Phe Trp Met Asp Ser Leu Ala Ile Pro Ala Asn Ala Lys Asn Val
260          265          270
Glu Gly Ala Leu Lys Leu Ile Asn Phe Leu Leu Arg Pro Asp Val Ala
275          280          285
Lys Glu Val Ala Glu Thr Ile Gly Tyr Pro Thr Pro Asn Leu Ala Ala
290          295          300
Arg Lys Leu Leu Ser Pro Glu Val Ala Asn Asp Lys Ser Leu Tyr Pro
305          310          315          320
Asp Ala Glu Thr Ile Ser Lys Gly Glu Trp Gln Asn Asp Val Gly Asp
325          330          335
Ala Ser Arg Leu Tyr Glu Glu Tyr Tyr Gln Lys Leu Lys Ala Gly Arg
340          345          350

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<210> 7668

<211> 385

<212> PRT

<213> Enterobacter cloacae

<400> 7668

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Tyr Arg Leu Leu Pro Ile Thr Ser Gly Leu His Phe Thr Thr Ile Gly
1      5      10      15
Val Ser Phe Met Ala Thr Arg Ser Ser Arg Thr Met Lys Gln Lys Ala
20      25      30
Leu Trp Ile Asn Gln Ile Lys Gly Leu Cys Ile Cys Leu Val Val Ile
35      40      45
Tyr His Ser Val Ile Thr Phe Tyr Pro His Leu Asp Gly Leu Gln His
50      55      60
Pro Leu Ser Gly Leu Leu Ala Lys Cys Trp Val Tyr Phe Asn Leu Tyr
65      70      75      80
Leu Ala Pro Phe Arg Met Pro Val Phe Phe Ile Ser Gly Tyr Leu
85      90      95
Ile Arg Arg Tyr Ile Asp Glu Val Asn Trp Arg Thr Ser Leu Asp Lys
100     105     110
Arg Ile Trp Ser Ile Val Trp Val Leu Ala Leu Trp Gly Val Leu Gln
115     120     125
Trp Gln Ala Leu Thr His Leu Asn Ala Trp Leu Ala Pro Glu Arg Glu
130     135     140
Leu Ala Thr Ala Ser Asn Ala Ala Tyr Ala Asp Ser Val Ser Gly Phe
145     150     155     160
Val Leu Gly Met Leu Thr Ala Ser Thr Ser Leu Trp Tyr Leu Tyr Ala
165     170     175
Leu Val Val Tyr Phe Thr Leu Cys Lys Leu Leu Ser Arg Trp Lys Leu
180     185     190
Pro Met Leu Gly Ile Leu Ala Leu Ala Ser Ile Ala Ile Asn Phe Leu
195     200     205
Pro Leu Pro Trp Trp Gly Met Asn Ser Val Val Arg Asn Met Ile Tyr

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210	215	220
Tyr Ser Leu Gly Ala Trp	Tyr Gly Ala Gln Leu	Met Ala Trp Met Lys
225	230	235
Gly Met Asn Leu Arg Arg	Ser Trp Leu Val Leu	Leu Ala Ser Gly Ala
245	250	255
Val Ser Val Val Leu Trp	Phe Ala Asn Val Pro	Leu Pro Leu Ser Leu
260	265	270
Leu Ser Ile Val Val Ile	Met Lys Leu Phe Tyr	Ser Phe Glu Gln Arg
275	280	285
Tyr Ala Val His Pro Asn	Asn Leu Leu Asn Val	Ile Gly Ser Asn Thr
290	295	300
Ile Ala Ile Tyr Thr Thr	His Arg Ile Leu Ile	Glu Ala Phe Ser Leu
305	310	315
Leu Leu Ile Arg Glu Met	Asn Ala Ala Tyr Trp	Pro Ile Trp Ala Glu
325	330	335
Leu Thr Leu Ile Leu Val	Tyr Pro Phe Ile Ser	Leu Leu Val Cys Thr
340	345	350
Leu Val Gly Leu Gly Ala	Arg Lys Leu Ser Thr	Ala Leu Phe Gly Asp
355	360	365
Leu Phe Phe Ser Pro Pro	Ala Arg Leu Ser Pro	Gln Thr Ala Thr Arg
370	375	380

385

<210> 7669

<211> 404

<212> PRT

<213> Enterobacter cloacae

<400> 7669

Asn Val Arg Pro His Tyr Glu Ser Pro Arg Trp Leu His Thr Asn Pro	1	5	10	15
Ala Ser Val Cys Cys Leu Arg Arg Leu Tyr Gly Thr Ala Arg Lys Leu	20	25	30	
Asn Thr Gln Pro Arg Ser Leu Ser Pro Leu Val Gln Leu Glu Arg Ile	35	40	45	
Arg Lys Ser Phe Asp Gly Lys Asp Val Ile Ser Asp Leu Asn Leu Thr	50	55	60	
Ile Asn Asp Gly Glu Phe Leu Thr Leu Leu Gly Pro Ser Gly Cys Gly	65	70	75	80
Lys Thr Thr Val Leu Arg Leu Ile Ala Gly Leu Glu Ser Val Asp Asn	85	90	95	
Gly His Ile His Leu Glu Asn Gln Asp Ile Thr Gln Val Pro Ala Glu	100	105	110	
Asp Arg His Val Asn Thr Val Phe Gln Ser Tyr Ala Leu Phe Pro His	115	120	125	
Met Thr Val Phe Glu Asn Val Ala Phe Gly Leu Arg Met Gln Lys Thr	130	135	140	
Pro Ala Ser Glu Ile Pro Pro Arg Val Thr Glu Ala Leu Arg Met Val	145	150	155	160
Gln Leu Glu Ala Phe Ala Gln Arg Lys Pro His Gln Leu Ser Gly Gly	165	170	175	
Gln Gln Gln Arg Val Ala Ile Ala Arg Ala Val Val Asn Lys Pro Arg	180	185	190	
Leu Leu Leu Leu Asp Glu Ser Leu Ser Ala Leu Asp Tyr Lys Leu Arg	195	200	205	
Lys Gln Met Gln Asn Glu Leu Lys Ala Leu Gln Arg Lys Leu Gly Ile	210	215	220	
Thr Phe Val Phe Val Thr His Asp Gln Glu Glu Ala Leu Thr Met Ser	225	230	235	240
Asp Arg Ile Val Val Met Arg Asp Gly Lys Ile Glu Gln Asp Gly Thr				

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<210> 7670
<211> 269
<212> PRT
<213> Enterobacter cloacae
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Glu 1	Gly	Gly	Ala	Gly 5	Met	Ile	Gly	Arg	Leu 10	Leu	Pro	Ala	Gly	Phe 15	Met
Thr	Ala	Ile	Tyr 20	Ala	Tyr	Leu	Tyr	Ile 25	Pro	Ile	Ile	Ile	Leu 30	Ile	Val
Asn	Ser	Phe 35	Asn	Ser	Ser	Arg	Phe 40	Gly	Ile	Asn	Trp	Gln 45	Gly	Phe	Thr
Thr	Lys 50	Trp	Tyr	Gly	Leu	Leu 55	Met	Asn	Asn	Asp 60	Ser	Leu	Leu	Gln	Ala
Ala 65	Gln	His	Ser	Leu	Thr 70	Met	Ala	Val	Phe	Ser 75	Ala	Thr	Phe	Ala 80	Thr
Leu	Ile	Gly	Ser	Leu 85	Thr	Ala	Val	Ala 90	Leu	Tyr	Arg	Tyr	Arg 95	Phe	Arg
Gly	Lys	Pro	Phe 100	Val	Ser	Gly	Met	Leu 105	Phe	Val	Val	Met	Met 110	Ser	Pro
Asp	Ile	Val 115	Met	Ala	Ile	Ser	Leu 120	Leu	Val	Leu	Phe	Met 125	Leu	Leu	Gly
Val	Gln 130	Leu	Gly	Phe	Trp	Ser 135	Leu	Leu	Phe	Ser	His 140	Ile	Thr	Phe	Cys
Leu 145	Pro	Phe	Val	Val 150	Val	Thr	Val	Tyr	Ala	Arg 155	Leu	Lys	Gly	Phe 160	Asp
Val	Arg	Met	Leu	Glu 165	Ala	Ala	Lys	Asp 170	Leu	Gly	Ala	Ser	Glu	Met 175	Thr
Ile	Leu	Arg	Lys 180	Ile	Ile	Leu	Pro	Leu 185	Ala	Met	Pro	Ala	Val 190	Ala	Ala
Gly	Trp	Leu	Leu	Ser	Phe	Thr	Leu	Ser 200	Met	Asp	Asp	Val 205	Val	Val	Ser
Ser	Phe 210	Val	Thr	Gly	Pro	Ser 215	Tyr	Glu	Ile	Leu	Pro 220	Leu	Lys	Ile	Tyr
Ser 225	Met	Val	Lys	Val 230	Gly	Val	Ser	Pro	Glu	Val 235	Asn	Ala	Leu	Ala	Thr
Ile	Leu	Leu	Val	Leu 245	Ser	Leu	Val	Leu	Val 250	Ile	Ala	Ser	Gln	Val 255	Ile
Ala	Arg	Asp	Lys	Thr	Lys	Ser	Gln	Gly	Thr	Gln	Lys				

260

265

<210> 7671

<211> 1171

<212> PRT

<213> Enterobacter cloacae

<400> 7671

Arg	His	Cys	Val	Ser	Val	Ile	Cys	Pro	Asn	Thr	Val	Gly	Ile	Ser	Pro
1			5					10					15		
Arg	Asp	Ser	Asp	Ile	Ala	Met	Pro	Glu	His	Tyr	Arg	Phe	Ser	Leu	Pro
		20					25					30			
Val	Lys	Ala	Gly	Asp	Gln	Arg	Gln	Leu	Gly	Glu	Leu	Thr	Gly	Ala	Ala
	35				40						45				
Cys	Ala	Thr	Leu	Val	Ala	Glu	Ile	Ala	Glu	Arg	His	Pro	Gly	Pro	Val
	50				55					60					
Val	Leu	Val	Ala	Pro	Asp	Met	Gln	Asn	Ala	Leu	Arg	Leu	His	Asp	Glu
65				70					75					80	
Ile	Arg	Gln	Phe	Thr	Asp	Ser	Leu	Val	Phe	Ser	Leu	Ala	Asp	Trp	Glu
		85						90					95		
Thr	Leu	Pro	Tyr	Asp	Ser	Phe	Ser	Pro	His	Gln	Glu	Ile	Ile	Ser	Ser
		100						105					110		
Arg	Leu	Ser	Thr	Leu	Tyr	Gln	Leu	Pro	Thr	Met	Gln	Arg	Gly	Val	Leu
	115					120					125				
Ile	Val	Pro	Val	Asn	Thr	Leu	Met	Gln	Arg	Val	Cys	Pro	His	Ser	Tyr
	130				135					140					
Leu	His	Gly	His	Ala	Leu	Val	Met	Lys	Lys	Gly	Gln	Arg	Leu	Ser	Arg
145				150					155					160	
Asp	Ala	Leu	Arg	Val	Gln	Leu	Asp	Gly	Ala	Gly	Tyr	Arg	His	Val	Asp
		165						170					175		
Gln	Val	Met	Glu	His	Gly	Glu	Tyr	Ala	Thr	Arg	Gly	Ala	Leu	Leu	Asp
		180						185					190		
Leu	Tyr	Pro	Met	Gly	Ser	Asp	Gln	Pro	Tyr	Arg	Leu	Asp	Phe	Phe	Asp
	195					200					205				
Asp	Glu	Ile	Asp	Ser	Leu	Arg	Val	Phe	Asp	Ala	Asp	Thr	Gln	Arg	Thr
	210					215				220					
Leu	Glu	Glu	Val	Asp	Ser	Ile	Asn	Leu	Leu	Pro	Ala	His	Glu	Phe	Pro
225				230						235				240	
Thr	Asp	Lys	Thr	Ala	Ile	Glu	Leu	Phe	Arg	Ser	Gln	Trp	Arg	Asp	Arg
		245							250				255		
Phe	Asp	Val	Lys	Arg	Asp	Ala	Glu	His	Ile	Tyr	Gln	Gln	Val	Ser	Lys
		260						265					270		
Gly	Thr	Leu	Pro	Ala	Gly	Ile	Glu	Tyr	Trp	Gln	Pro	Leu	Phe	Phe	Asn
	275						280					285			
Glu	Pro	Leu	Pro	Ala	Leu	Phe	Ser	Tyr	Phe	Pro	Ala	Asn	Thr	Leu	Ile
	290					295					300				
Val	Asn	Thr	Gly	Asp	Ile	Asp	Ala	Ser	Ala	Ser	Arg	Phe	Glu	Ser	Glu
305				310						315				320	
Thr	Arg	Ala	Arg	Phe	Glu	Asn	Arg	Gly	Val	Asp	Pro	Met	Arg	Pro	Leu
		325							330				335		
Leu	Pro	Pro	Glu	Met	Leu	Trp	Leu	Arg	Thr	Asp	Glu	Leu	Asn	Ala	Glu
		340						345					350		
Leu	Lys	Arg	Trp	Pro	Arg	Met	Gln	Leu	Lys	Thr	Asp	Ser	Leu	Ala	Asp
	355					360					365				
Lys	Ala	Ala	Asn	Thr	Asn	Leu	Ala	Phe	Arg	Met	Leu	Pro	Asp	Leu	Ala
	370				375						380				
Val	Gln	Ala	Gln	Gln	Lys	Ser	Pro	Leu	Asp	Asn	Leu	Arg	Lys	Phe	Leu
385				390						395				400	
Glu	Ser	Phe	Thr	Gly	Pro	Val	Val	Phe	Ser	Val	Glu	Ser	Glu	Gly	Arg
		405							410				415		
Arg	Glu	Ala	Leu	Gly	Glu	Leu	Leu	Gly	Arg	Ile	Lys	Val	Ala	Pro	Lys

			420							425							430			
Arg	Ile	Leu	Arg	Leu	Ser	Glu	Ala	Thr	Gly	Asn	Gly	Arg	Tyr	Leu	Met					
		435					440					445								
Ile	Gly	Ala	Ala	Glu	His	Gly	Phe	Ile	Asp	Thr	Leu	Asn	Asn	Leu	Ala					
	450					455					460									
Leu	Ile	Cys	Glu	Ser	Asp	Leu	Leu	Gly	Glu	Arg	Val	Ala	Arg	Arg	Arg					
465					470					475					480					
Gln	Asp	Ser	Arg	Arg	Thr	Ile	Asn	Pro	Asp	Thr	Leu	Ile	Arg	Asn	Leu					
				485					490					495						
Ala	Glu	Leu	His	Pro	Gly	Gln	Pro	Ile	Val	His	Leu	Glu	His	Gly	Val					
			500					505					510							
Gly	Arg	Tyr	Gln	Gly	Met	Thr	Thr	Leu	Glu	Ala	Gly	Gly	Ile	Lys	Gly					
	515						520					525								
Glu	Tyr	Leu	Met	Leu	Thr	Tyr	Ala	Asn	Asp	Ala	Lys	Leu	Tyr	Val	Pro					
	530					535					540									
Val	Ser	Ser	Leu	His	Leu	Ile	Ser	Arg	Tyr	Ala	Gly	Gly	Ala	Glu	Glu					
545					550					555					560					
Asn	Ala	Pro	Leu	His	Lys	Leu	Gly	Gly	Asp	Ala	Trp	Ala	Arg	Ala	Arg					
				565					570					575						
Gln	Lys	Ala	Ala	Glu	Lys	Val	Arg	Asp	Val	Ala	Ala	Glu	Leu	Leu	Asp					
			580					585					590							
Ile	Tyr	Ala	Gln	Arg	Ala	Ala	Lys	Glu	Gly	Tyr	Ala	Phe	Lys	His	Asp					
	595						600					605								
Lys	Glu	Gln	Tyr	Gln	Leu	Phe	Cys	Asp	Ser	Phe	Pro	Phe	Glu	Thr	Thr					
	610					615					620									
Pro	Asp	Gln	Ala	Gln	Ala	Ile	Asn	Ala	Val	Leu	Ser	Asp	Met	Cys	Gln					
625					630				635					640						
Pro	Leu	Ala	Met	Asp	Arg	Leu	Val	Cys	Gly	Asp	Val	Gly	Phe	Gly	Lys					
			645					650					655							
Thr	Glu	Val	Ala	Met	Arg	Ala	Ala	Phe	Leu	Ala	Val	Glu	Asn	Asn	Lys					
			660					665					670							
Gln	Val	Ala	Val	Leu	Val	Pro	Thr	Thr	Leu	Leu	Ala	Gln	Gln	His	Phe					
		675					680					685								
Asp	Asn	Phe	Arg	Asp	Arg	Phe	Ala	Asn	Trp	Pro	Val	Arg	Ile	Glu	Met					
	690					695				700										
Leu	Ser	Arg	Phe	Arg	Ser	Ala	Lys	Glu	Gln	Thr	Gln	Ile	Leu	Glu	Gln					
705					710					715					720					
Ala	Ser	Glu	Gly	Lys	Ile	Asp	Ile	Leu	Ile	Gly	Thr	His	Lys	Leu	Leu					
				725					730					735						
Gln	Ser	As																		

Phe Gly Leu Ala Gln Leu His Gln Leu Arg Gly Arg Val Gly Arg Ser
 915 920 925
 His His Gln Ala Tyr Ala Trp Leu Leu Thr Pro His Pro Lys Ala Met
 930 935 940
 Thr Thr Asp Ala Gln Lys Arg Leu Glu Ala Ile Ala Ser Leu Glu Asp
 945 950 955 960
 Leu Gly Ala Gly Phe Ala Leu Ala Thr His Asp Leu Glu Ile Arg Gly
 965 970 975
 Ala Gly Glu Leu Leu Gly Glu Asp Gln Ser Gly Ser Met Glu Thr Ile
 980 985 990
 Gly Phe Ser Leu Tyr Met Glu Leu Leu Glu Asn Ala Val Asp Ala Leu
 995 1000 1005
 Lys Ala Gly Arg Glu Pro Ser Leu Glu Asp Leu Thr Ser Gln Gln Thr
 1010 1015 1020
 Glu Val Glu Leu Arg Met Pro Ser Leu Leu Pro Asp Asp Phe Ile Pro
 1025 1030 1035 1040
 Asp Val Asn Thr Arg Leu Ser Phe Tyr Lys Arg Ile Ala Ser Ala Lys
 1045 1050 1055
 Ser Glu Gly Glu Leu Glu Glu Ile Lys Val Glu Leu Ile Asp Arg Phe
 1060 1065 1070
 Gly Ile Leu Pro Asp Ala Ala Arg Asn Leu Leu Asp Ile Ala Arg Leu
 1075 1080 1085
 Arg Gln Gln Ala Gln Lys Leu Gly Ile Arg Lys Leu Glu Gly Asn Glu
 1090 1095 1100
 Lys Gly Gly Val Ile Glu Phe Ala Glu Lys Asn His Val Asp Pro Met
 1105 1110 1115 1120
 Trp Leu Ile Gly Leu Leu Gln Lys Gln Pro Gln His Phe Arg Leu Asp
 1125 1130 1135
 Gly Pro Thr Arg Leu Lys Phe Thr Gln Asp Leu Thr Glu Arg Lys Thr
 1140 1145 1150
 Arg Met Asp Trp Val Arg Asn Phe Met Arg Gln Leu Glu Glu Asn Ala
 1155 1160 1165
 Ile Ala
 1170

<210> 7672

<211> 340

<212> PRT

<213> Enterobacter cloacae

<400> 7672

Leu Ser Leu Thr Pro Tyr Lys Thr Ile Thr Leu Ser Phe Val Trp Ile
 1 5 10 15
 Met Ile Met Met Ile Ser Ser Arg Phe Thr Arg Trp Leu Thr Leu Val
 20 25 30
 Ala Leu Ala Ala Thr Val Ala Val Ala Leu Pro Ala Arg Ala Asn Thr
 35 40 45
 Trp Pro Leu Pro Pro Ala Gly Ser Asn Val Val Gly Glu Asn Arg Phe
 50 55 60
 His Val Val Glu Asn Asp Gly Gly Ser Leu Glu Ala Ile Ala Lys Lys
 65 70 75 80
 Tyr Asn Val Gly Phe Leu Ala Leu Leu Gln Ala Asn Pro Gly Val Asp
 85 90 95
 Pro Tyr Val Pro Arg Ala Gly Ser Val Leu Thr Ile Pro Leu Gln Thr
 100 105 110
 Ile Leu Pro Asp Ala Pro Arg Gln Gly Ile Val Ile Asn Leu Ala Glu
 115 120 125
 Leu Arg Leu Tyr Tyr Tyr Pro Pro Gly Lys Asn Glu Val Thr Val Tyr
 130 135 140
 Pro Ile Gly Ile Gly Gln Leu Gly Gly Asp Thr Leu Thr Pro Thr Met
 145 150 155 160

Val Thr Thr Val Ser Asp Lys Arg Ala Asn Pro Thr Trp Thr Pro Thr
 165 170 175
 Ala Asn Ile Arg Ala Arg Tyr Lys Ala Gln Gly Ile Asp Leu Pro Ala
 180 185 190
 Val Val Pro Ala Gly Pro Asp Asn Pro Met Gly His His Ala Ile Arg
 195 200 205
 Leu Ala Ala Tyr Gly Gly Val Tyr Leu Leu His Gly Thr Asn Ala Asp
 210 215 220
 Phe Gly Ile Gly Met Arg Val Ser Ser Gly Cys Ile Arg Leu Arg Asp
 225 230 235 240
 Asp Asp Ile Lys Thr Leu Tyr Arg Val Ile Ala Pro Gly Thr Lys Val
 245 250 255
 Asn Ile Ile Asn Thr Pro Ile Lys Val Ser Glu Glu Pro Gly Gly Val
 260 265 270
 Arg Leu Val Glu Ile His Gln Pro Leu Ser Lys Asn Ile Asn Asp Asp
 275 280 285
 Pro Gln Thr Leu Pro Ile Asn Leu Asn Ala Ser Met Val Ser Phe Lys
 290 295 300
 Thr Asn Ala Asn Thr Asp Gly Ala Val Met Glu Arg Ala Met Glu Ala
 305 310 315 320
 Arg Ser Gly Met Pro Thr Asp Val Thr Arg His His Glu Val Ala Gln
 325 330 335
 Gln Ser Met
 340

<210> 7673

<211> 294

<212> PRT

<213> Enterobacter cloacae

<400> 7673

Lys Ala Gly Arg Leu Tyr Trp Leu Met Lys Asn Thr Ser Lys Phe Gln
 1 5 10 15
 Asn Val Val Ile Ala Thr Ile Val Gly Trp Leu Val Leu Phe Val Phe
 20 25 30
 Leu Pro Asn Leu Met Ile Ile Val Thr Ser Phe Leu Thr Arg Asp Asp
 35 40 45
 Ala Asn Phe Val Ala Met Val Phe Thr Leu Asp Asn Tyr Ala Arg Leu
 50 55 60
 Leu Asp Pro Leu Tyr Phe Asp Val Leu Leu His Ser Leu Asn Met Ala
 65 70 75 80
 Leu Ile Ala Thr Leu Ala Cys Leu Val Leu Gly Tyr Pro Phe Ala Trp
 85 90 95
 Phe Leu Ala Arg Leu Pro Gln Lys Val Arg Pro Leu Leu Phe Leu
 100 105 110
 Leu Ile Val Pro Phe Trp Thr Asn Ser Leu Ile Arg Ile Tyr Gly Leu
 115 120 125
 Lys Ile Phe Leu Ser Thr Lys Gly Tyr Leu Asn Glu Phe Leu Leu Trp
 130 135 140
 Leu Gly Val Ile Glu Thr Pro Ile Arg Ile Met Phe Thr Pro Gly Ala
 145 150 155 160
 Val Ile Val Gly Leu Val Tyr Ile Leu Leu Pro Phe Met Val Met Pro
 165 170 175
 Leu Tyr Ser Ser Ile Glu Lys Leu Asn Lys Pro Leu Leu Glu Ala Ala
 180 185 190
 Lys Asp Leu Gly Ala Ser Lys Leu Gln Thr Phe Val Arg Ile Ile Ile
 195 200 205
 Pro Leu Thr Met Pro Gly Ile Ile Ala Gly Cys Leu Leu Val Met Leu
 210 215 220
 Pro Ala Met Gly Leu Phe Tyr Val Ser Asp Leu Met Gly Gly Ala Lys
 225 230 235 240

Asn Leu Leu Ile Gly Asn Val Ile Lys Ser Gln Phe Leu Asn Ile Arg
 245 250 255
 Asp Trp Pro Phe Gly Ser Ala Thr Ser Ile Thr Leu Thr Val Val Met
 260 265 270
 Gly Leu Met Leu Leu Val Tyr Trp Arg Ala Ser Arg Leu Leu Asn Lys
 275 280 285
 Lys Val Glu Leu Glu
 290

<210> 7674

<211> 223

<212> PRT

<213> Enterobacter cloacae

<400> 7674

Leu Phe Asn Lys Thr Thr Glu Asp Gln Arg His Met Thr Thr Asp Val
 1 5 10 15
 Thr Arg Cys Ala Lys Lys Ser Arg Gly Arg Pro Lys Val Phe Asp Arg
 20 25 30
 Asp Ala Ala Leu Asp Lys Ala Met Thr Leu Phe Trp Gln His Gly Tyr
 35 40 45
 Glu Ala Thr Ser Leu Ser Asp Leu Val Glu Ala Thr Gly Ala Lys Ala
 50 55 60
 Pro Thr Leu Tyr Ala Glu Phe Thr Asn Lys Glu Gly Leu Phe Arg Ala
 65 70 75 80
 Val Leu Asp Arg Tyr Ile Ser Arg Phe Ala Ala Lys His Glu Ala Gln
 85 90 95
 Leu Phe Cys Glu Glu Lys Thr Val Glu Gln Ala Leu Gln Asp Tyr Phe
 100 105 110
 Thr Ala Ile Ala Thr Cys Tyr Thr Ser Lys Asp Thr Pro Ala Gly Cys
 115 120 125
 Phe Met Ile Asn Thr Ser Ala Thr Leu Ala Ala Ser Ser Lys Glu Ile
 130 135 140
 Ala Asn Thr Val Lys Ser Arg His Ala Met Gln Glu Glu Thr Leu Ser
 145 150 155 160
 Thr Phe Leu Ala Gln Arg Gln Leu Arg Gly Glu Ile Pro Ala His Cys
 165 170 175
 Arg Pro Gln Glu Leu Ala Gln Tyr Leu Ser Cys Ile Leu Gln Gly Met
 180 185 190
 Ser Ile Ser Ala Arg Glu Gly Ala Thr Leu Glu Lys Leu Gln Gly Ile
 195 200 205
 Thr His Thr Thr Leu Arg Leu Trp Pro Glu Leu Leu Lys Leu
 210 215 220

<210> 7675

<211> 282

<212> PRT

<213> Enterobacter cloacae

<400> 7675

His Gly Gly Gln Ser Val Gln Arg Leu Thr Lys Arg Ile Gly Arg Lys
 1 5 10 15
 Met Asn Ile Ala Thr Ala Ser Leu Ser Arg Gln Gly Thr Arg Ala Ser
 20 25 30
 Asn Gln Asp Gln Thr Gly Glu Thr Ile Gly Glu Arg Ser Ala Cys Phe
 35 40 45
 Val Val Cys Asp Gly Ile Ala Gly Leu Pro Gly Gly Glu Val Ala Ala
 50 55 60
 Glu Leu Ala Arg Asn Ser Ile Ile Ser Arg Phe Asp Gly Asp Lys His
 65 70 75 80
 Leu Asn Ala Gln His Ile Arg Asp Tyr Val Gln Thr Ala Asn Arg Thr

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      85      90      95
Ile Leu Ser Glu Gln Gln Ala Val Gln Asp Tyr Arg Arg Met Gly Thr
      100      105      110
Thr Leu Val Ser Leu Phe Ile Asp Arg Asp Tyr Arg Leu Ala Tyr Trp
      115      120      125
Ala His Ala Gly Asp Ser Arg Leu Tyr Leu Phe Arg Arg Gly Trp Leu
      130      135      140
Trp His Val Thr Thr Asp His Ser Leu Val Gln Gln Met Lys Asp Ala
145      150      155      160
Gly His Gln Thr Asp Asp Leu Asn Ser Asn Leu Leu Tyr Leu Ala Leu
      165      170      175
Gly Ile Glu Asn Gly Gly Pro Glu Ala Ser Tyr Ser Asp Val Val Gln
      180      185      190
Val Glu Asp Gly Asp Ala Phe Leu Leu Cys Thr Asp Gly Phe Trp His
      195      200      205
Gly Val Ser Glu Glu Gln Met Lys Gln Ser Leu His Met Val Asn Thr
      210      215      220
Pro Gln Glu Trp Leu Thr Leu Met Asn Gln Ile Ile Gln Lys Asn Ala
225      230      235      240
Glu Gln Glu Gly Asn Ala Gln Asp Asn Tyr Thr Ala Val Ala Val Trp
      245      250      255
Met Gly Asn Pro Gln Asp Thr Thr Leu Leu His Thr Leu Ser Asp Ala
      260      265      270
Ala Gln Phe Leu Pro Cys Gly Thr Asp
      275      280

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<210> 7676

<211> 914

<212> PRT

<213> Enterobacter cloacae

<400> 7676

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Arg Arg Ala Ile Arg Val Gln His Leu Ala Arg Pro Ser Ala Ser Ala
1      5      10      15
Cys Ser Ala Trp Arg Ser Gly Val Ser Arg Arg Ala Ile Ile Leu Pro
      20      25      30
Tyr Thr Glu Ser Leu Leu Met Glu Thr Asn Met Ser Glu Ile Ser Arg
      35      40      45
Ala Val Leu Phe Gly Lys Leu Asp Thr Leu Leu Phe Thr Ser Leu Glu
      50      55      60
Ser Ala Thr Ala Phe Cys Lys Leu Arg Gly Asn Pro Tyr Val Glu Leu
65      70      75      80
Val His Trp Leu His Gln Leu Met Gln Gln Gln Asp Gly Asp Leu Gln
      85      90      95
Gln Val Ile Arg His Phe Ala Leu Asp Glu Gln Gln Leu Thr Arg Asp
      100      105      110
Ile Val Ala Ala Leu Asp Ala Leu Pro Arg Gly Ala Ser Ser Val Ser
      115      120      125
Asp Leu Ser Glu His Ile Asp Ser Ala Val Glu Arg Ala Trp Val Tyr
      130      135      140
Gly Ser Leu Lys Phe Gly Val Ser Arg Ile Arg Gly Gly His Leu Leu
145      150      155      160
Ile Gly Ile Leu Lys Thr Trp Asn Leu Ala Asn Val Leu Lys Ser Ile
      165      170      175
Ser Ala Gln Phe Thr Arg Leu Asn Val Glu Val Leu Val Glu Gln Phe
      180      185      190
Asp Ala Ile Cys Ala Ser Ser Lys Glu Ser Gln Gln Ala Ala Ala Ala
195      200      205
Ala Asp Ala Pro Ala Gly Ala Val Pro Ala Ala Gln Gly Thr Leu Ala
210      215      220
Gln Tyr Gly Gln Asp Leu Thr Ala Arg Ala Arg Glu Gly Lys Ile Asp

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